

APPENDIX B

Analytical Chemistry Results–Summary Table

Table B-1. Conventional parameters and individual dioxin/furan congener concentrations for all surface (0-10cm) sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-S1	LQ	VQ	BI-S2	LQ	VQ	BI-S3	LQ	VQ	BI-S4	LQ	VQ	BI-S5	LQ	VQ	BI-S6	LQ	VQ	BI-S7	LQ	VQ	BI-S9	LQ	VQ
2,3,7,8-TCDD	1	0.456	J	J	0.317	J	J	0.326	J		1.12			1.04	J		1.05			1.69			0.738	J	
1,2,3,7,8-PECDD	1	2.5	J		1.48	J		1.22	J	J	4.57	J		3.99	J		5.81		J	11.8		J	2.92	J	
1,2,3,4,7,8-HxCDD	0.1	4.61	J		2.64	J		2.07	J	J	7.03			5.1	J		9.29		J	14.5		J	4.41	J	
1,2,3,6,7,8-HxCDD	0.1	26.7			14.2			9.9			43.2		J	27.7		J	48		J	101			20.4		J
1,2,3,7,8,9-HxCDD	0.1	13.7			7.42			5.24			21.8		J	13.1		J	23		J	39.8			11.7		J
1,2,3,4,6,7,8-HPCDD	0.01	619			309			179			1060		J	370		J	838		J	1530			393		J
OCDD	0.0003	5410			2420			1210			8150	D	J	2410		J	5770	D	J	8480	D		2310		
2,3,7,8-TCDF	0.1	0.0488	K	U	0.897	J		0.0478	KJ	U	2.61			3.04			2.3			3.11			2.37		
1,2,3,7,8-PECDF	0.03	1.83	J		1.12	J		0.782	J		2.71	J		2.47	J		2.58	J		4.79			2.45	J	
2,3,4,7,8-PECDF	0.3	2.17	J	J	1.34	J	J	1.02	J		3.89	J		3.11	J		3.04	J		6.03			3.45	J	
1,2,3,4,7,8-HxCDF	0.1	8.38		J	4.94	J	J	3.03	J		14.3			8.05			12.3			19.4			7.3		
1,2,3,6,7,8-HxCDF	0.1	4.04	J		2.38	J		1.74	J		6.55		J	4.64	J		7.39			14			3.76	J	J
1,2,3,7,8,9-HxCDF	0.1	0.38	J		0.23	J		0.171	J		0.549	J		0.37	J		0.606	J		1.3	J		0.339	J	
2,3,4,6,7,8-HxCDF	0.1	3.88	J	J	2.09	J	J	1.8	J	J	5.88			4.98	J		8.09			15.2		J	3.8	J	
1,2,3,4,6,7,8-HPCDF	0.01	133			73.5			52.3			164			122			270			525			87.5		
1,2,3,4,7,8,9-HPCDF	0.01	6.02			3.49	J		2.04	J		9.22			4.14	J	J	8.36		J	18.9			4.01	J	
OCDF	0.0003	258			142			80.7			351			166		J	431		J	910			137		
TEQ 1/2 DL		19.11			10.34			6.99			32.01			18.47			31.97			59.83			15.75		
TEQ 0 DL		19.11			10.34			6.99			32.01			18.47			31.97			59.83			15.75		
Conventionals																									
Total Organic Carbon (% DW)		4.06			3.31			2.87			4.16			3.86			4.8			9.26			1.61		
TVS (%)		12.7		J	11.5		J	9.82		J	14.3		J	11.3		J	11.4		J	0			5.55		J
Total Solids (%)		33.2			34.8			44			31.5			40.8			40.7			36.7			54.5		
<u>Grain Size</u>																									
Percent Gravel (>2.0 mm)		0.04			0			1.48			3.45			8.07		J	3.15		J	12.6		J	2.09		
Percent Sand (<2.0 mm - 0.06 mm)		19.56			30.83			48.08			37.4			35.99			18.16			51.19			45.68		
Percent Silt (0.06 mm - 0.004 mm)		57.8			54.6			42.1			41.4			46.5		J	69.7		J	38.6		J	46.6		
Percent Fines (<0.06 mm)		81.7			66.8			53.9			62.9			55.1		J	80.3			48.8			52.54		
Percent Clay (<0.004 mm)		23.9			12.2			11.8			21.5			8.6		J	10.6			10.2			5.94		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-1. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all surface (0-10cm) sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-S11	LQ	VQ	BI-S12	LQ	VQ	BI-S13	LQ	VQ	BI-S14	LQ	VQ	BI-S15	LQ	VQ	BI-S16	LQ	VQ	BI-S17	LQ	VQ	BI-S18	LQ	VQ	
2,3,7,8-TCDD	1	0.723	J		1.34			0.723	J	J	0.0505	KJ	UJ	0.229			0.42	J		0.399	J		0.609	J		
1,2,3,7,8-PECDD	1	3.63	J		5.96			3.64	J		0.524	J		0.832			2.56	J		2.31	J		3.6	J		
1,2,3,4,7,8-HxCDD	0.1	5.62			7.64			5.81			0.819	J		1.45			4.17	J		3.29	J		6.14			
1,2,3,6,7,8-HxCDD	0.1	48.9		J	47.6		J	34			4.48	J		5.99		J	25.7		J	23.9		J	37.8		J	
1,2,3,7,8,9-HxCDD	0.1	20.7		J	23.1		J	17.4			2.35	J		3.52		J	11.5		J	10.2		J	18.5		J	
1,2,3,4,6,7,8-HPCDD	0.01	1190		J	940		J	702			87.1			111		J	390		J	379		J	747		J	
OCDD	0.0003	10500	D	J	5950			4760			581			788		J	2610		J	2220		J	4820			
2,3,7,8-TCDF	0.1	1.98			4.04			0.0484	K	U	0.344	J		0.64	J		1.52			0.107	K	U	2.43			
1,2,3,7,8-PECDF	0.03	2.71	J		4.77			3.07	J		0.434	J		0.687			1.62	J		1.73	J		3.02	J		
2,3,4,7,8-PECDF	0.3	3.03	J		5.83			3.64	J	J	0.521	J	J	0.892			1.88	J		2	J		3.78	J		
1,2,3,4,7,8-HxCDF	0.1	12.2			17.6			13.4		J	1.7	J	J	2.46			8.68			7.61			15.6			
1,2,3,6,7,8-HxCDF	0.1	5.47		J	8.06		J	6.14			0.788	J		1.09			4.1	J		4.18	J	J	6.58		J	
1,2,3,7,8,9-HxCDF	0.1	0.499	J		0.75	J		0.522	J		0.0938	U		0.139			0.407	J		0.403	J		0.651	J		
2,3,4,6,7,8-HxCDF	0.1	5.42			7.27			5.39		J	0.708	J	J	1.03			4.02	J		3.85	J		6.1			
1,2,3,4,6,7,8-HPCDF	0.01	183			234			195			24.3			28.8			147			134			243			
1,2,3,4,7,8,9-HPCDF	0.01	7.94			9			7.44			1.05	J		1.16		J	4.93	J	J	4.53	J		8.6			
OCDF	0.0003	429			344			300			36.8			42.1		J	209		J	185			368			
TEQ 1/2 DL		32.51			34.52			24.38			3.18			4.64			15.87			14.61			26.36			
TEQ 0 DL		32.51			34.52			24.38			3.17			4.64			15.87			14.60			26.36			
Conventionals																										
Total Organic Carbon (% DW)		5.45			3.35			1.81			0.56			0.71			2.9			3.72			3.25			
TVS (%)		14		J	11.7		J	11.8		J	2.5		J	2.58		J	8.69		J	11.4		J	11.3		J	
Total Solids (%)		30.3			34.9			33			69.8			66.5			35.2			36.9			31.2			
<u>Grain Size</u>																										
Percent Gravel (>2.0 mm)		0.4			7.89			0			0.03			6.23		J	7.39		J	1.04			0.02			
Percent Sand (<2.0 mm - 0.06 mm)		17.62			15.66			10.66			86.33			81.74			36.58			42.42			18.68			
Percent Silt (0.06 mm - 0.004 mm)		58.5			61.8			69.9			8.49			14.9		J	48.4		J	37.7			56.5			
Percent Fines (<0.06 mm)		82			81			90.8			12.71			18.5			63.6			57.6			81.3			
Percent Clay (<0.004 mm)		23.5			19.2			20.9			4.22			3.6			15.2			19.9			24.8			

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Table B-1. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all surface (0-10cm) sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-S19	LQ	VQ	BI-S21	LQ	VQ	BI-S23	LQ	VQ	BI-S26	LQ	VQ	BI-S28	LQ	VQ	BI-S29	LQ	VQ	BI-S30	LQ	VQ	BI-S31	LQ	VQ	
2,3,7,8-TCDD	1	0.0482	KJ	U	0.547	J		0.372	J		0.552	J		0.0507	KJ	U	0.358	J		0.977	J		0.455	J		
1,2,3,7,8-PECDD	1	0.497	J		2.83	J		2.3	J	J	3.05	J	J	2.43	J		2.03	J		5.06	J		2.71	J		
1,2,3,4,7,8-HxCDD	0.1	0.807	J		4.31	J		3.34	J	J	4.57	J	J	3.87	J		2.85	J		10.4			4.73			
1,2,3,6,7,8-HxCDD	0.1	4.14	J	J	32.2		J	22.7			26.4			17.2		J	13.6		J	77.1		J	27.6		J	
1,2,3,7,8,9-HxCDD	0.1	2.25	J	J	13.7		J	11.3			15.7			11.1		J	8.99		J	30.3		J	13.5		J	
1,2,3,4,6,7,8-HPCDD	0.01	74.1		J	498		J	411			506			287		J	222		J	2750		D	J	646		J
OCDD	0.0003	557		J	3010		J	2750			3620			2210		J	1690		J	23800		D	J	4470		
2,3,7,8-TCDF	0.1	0.357	J		2.01			4.24			2.53			2.42			2.02			2.19			1.61			
1,2,3,7,8-PECDF	0.03	0.433	J		2.27	J		2.91	J		2.64	J		1.95	J		1.36	J		2.75	J		1.97	J		
2,3,4,7,8-PECDF	0.3	0.567	J		2.49	J		3.36	J		3.37	J		2.53	J		2	J		4.01	J		2.26	J		
1,2,3,4,7,8-HxCDF	0.1	1.6	J		10.4			10.6			14.3			10.1			7.46			20			8.85			
1,2,3,6,7,8-HxCDF	0.1	0.736	J		5.36		J	4.05	J		5.06			3.45	J		2.65	J		7.22			4.18	J	J	
1,2,3,7,8,9-HxCDF	0.1	0.093	J		0.659	U		0.377	J		0.471	J		0.285	J		0.24	J		0.613	J		0.366	J		
2,3,4,6,7,8-HxCDF	0.1	0.724	J		5.09			3.87	J	J	4.83		J	3.22	J		2.59	J		6.57			4.06	J		
1,2,3,4,6,7,8-HPCDF	0.01	19			176			157			171			97.7			78.5			228			127			
1,2,3,4,7,8,9-HPCDF	0.01	0.787	J	J	5.96			5.75			8.25			4.86	J	J	3.67	J	J	32.1		J	5.04			
OCDF	0.0003	28.8		J	231			258			456			242		J	198		J	943		J	224			
TEQ 1/2 DL		2.89			19.30			16.45			20.15			13.07			10.68			60.29			19.58			
TEQ 0 DL		2.87			19.27			16.45			20.15			13.04			10.68			60.29			19.58			
Conventionals																										
Total Organic Carbon (% DW)		0.57			4.98			2.39			2.95			2.51			2.17			2.57			2.52			
TVS (%)		2.42		J	14.2		J	9.52		J	11.5		J	8.44		J	6.93		J	6.59		J	8.4		J	
Total Solids (%)		67.4			31.8			36.2			27.6			31.7			38.5			53.4			40.5			
<u>Grain Size</u>																										
Percent Gravel (>2.0 mm)		0.46		J	2.07			0.05			0.03			21.2		J	26.4		J	9.94		J	40.7			
Percent Sand (<2.0 mm - 0.06 mm)		88.29			28.43			26.4			13.9			15.59			33.5			52.83			18.79			
Percent Silt (0.06 mm - 0.004 mm)		8.88		J	44.6			51			59.6			49.3		J	32.7		J	35.3		J	34.2			
Percent Fines (<0.06 mm)		13.6			67.8			72.4			88.7			63.9			43.8			40.2			46.7			
Percent Clay (<0.004 mm)		4.72			23.2			21.4			29.1			14.6			11.1			4.9			12.5			

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Table B-1. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all surface (0-10cm) sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-S32	LQ	VQ	BI-S33	LQ	VQ	BI-S34	LQ	VQ	BI-S35	LQ	VQ	BI-S36	LQ	VQ	BI-S37	LQ	VQ	BI-S38	LQ	VQ	BI-C1	LQ	VQ
2,3,7,8-TCDD	1	1.23			0.668	J	J	0.048	KJ	U	0.285	J	J	0.488	J	J	0.424	J	J	0.704	J		0.283	J	J
1,2,3,7,8-PECDD	1	4.9	J		2.86	J		0.791	J	J	1.39	J		2.36	J		2.21	J		3.61	J		1.44	J	
1,2,3,4,7,8-HxCDD	0.1	7.26			4	J		2.09	J	J	2.34	J		3.54	J		3.36	J		6.76			2.44	J	
1,2,3,6,7,8-HxCDD	0.1	43		J	27.9			6.89			16.3			23.9			21.9			36.7		J	14		
1,2,3,7,8,9-HxCDD	0.1	18.2		J	11.1			4.91			7.11			11.8			10.5			18.4		J	7.27		
1,2,3,4,6,7,8-HPCDD	0.01	1100		J	395			171			257			442			413			838		J	265		
OCDD	0.0003	8290	D		2320			1330			1570			3080			2940			8430	D	J	1890		
2,3,7,8-TCDF	0.1	3.01			1.89			0.226	J		0.715	J		1.31			1.4			0.05	K	U	0.631	J	
1,2,3,7,8-PECDF	0.03	3.27	J		2.02	J		0.232	J		1.1	J		1.69	J		1.64	J		2.67	J		1.02	J	
2,3,4,7,8-PECDF	0.3	4.16	J		2.36	J	J	0.291	J		1.17	J	J	2.05	J	J	2	J	J	3.23	J		1.28	J	J
1,2,3,4,7,8-HxCDF	0.1	9.99			7.25		J	1.3	J		4.73	J	J	8.61		J	8.23		J	12.8			4.79		J
1,2,3,6,7,8-HxCDF	0.1	6.25		J	4.6	J		1.02	J		2.69	J		3.82	J		3.82	J		4.8	J		2.42	J	
1,2,3,7,8,9-HxCDF	0.1	0.568	J		0.424	J		0.0893	U		0.222	J		0.35	J		0.373	J		0.482	J		0.0984	KJ	U
2,3,4,6,7,8-HxCDF	0.1	6.83			4.62	J	J	0.859	J	J	2.54	J	J	3.82	J	J	3.38	J	J	4.97	J		2.23	J	J
1,2,3,4,6,7,8-HPCDF	0.01	236			152			37.7			93.5			137			151			200			75.5		
1,2,3,4,7,8,9-HPCDF	0.01	10.5			5.06			2.73	J		3.23	J		5.36			4.98			6.74		J	3.16	J	
OCDF	0.0003	710			181			162			131			222			221			334		J	131		
TEQ 1/2 DL		33.15			16.75			5.21			9.77			16.06			15.22			26.93			9.56		
TEQ 0 DL		33.15			16.75			5.18			9.77			16.06			15.22			26.93			9.56		
Conventionals																									
Total Organic Carbon (% DW)		4.28			4.04			0.57			2.39			3.48			3.62			7.32			3.52		
TVS (%)		12.4		J	12		J	2.69		J	7.82		J	11.9		J	12.3		J	23.2		J	12.6		J
Total Solids (%)		38.5			41.5			85.6			45.3			32.1			29			30.2			33		
<u>Grain Size</u>																									
Percent Gravel (>2.0 mm)		0.21			0.36			50.3			0.78			1.01			0			41.9		J	0		
Percent Sand (<2.0 mm - 0.06 mm)		26.34			34.01			42.44			40.13			11.68			11.38			35.01			19.11		
Percent Silt (0.06 mm - 0.004 mm)		64.6			46.6			2.66			43.1			63.9			69.8			19.3		J	64.1		
Percent Fines (<0.06 mm)		78.5			62.7			4.29			60.1			88.7			89.3			27.29			79.1		
Percent Clay (<0.004 mm)		13.9			16.1			1.63			17			24.8			19.5			7.99			15		

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Congener (pg/g)	TEF	BI-C2	LQ	VQ	BI-C5	LQ	VQ	BI-C6	LQ	VQ	BI-C7	LQ	VQ	BI-C8	LQ	VQ	BI-C9	LQ	VQ	BI-C10	LQ	VQ	BI-C12	LQ	VQ
2,3,7,8-TCDD	1	0.78	J	J	0.64	DJ		0.438	J		0.292	J		0.523	J		0.632	J		0.848	J		0.559	J	
1,2,3,7,8-PECDD	1	2.76	J		3.02	DJ		2.19	J	J	1.26	J	J	1.12	J	J	3.66	J	J	4.36	J		3.15	J	J
1,2,3,4,7,8-HxCDD	0.1	4.08	J		5.6	DJ		3.27	J	J	1.88	J	J	1.74	J	J	7.23		J	7.34			5.42	J	J
1,2,3,6,7,8-HxCDD	0.1	21			29.6	D	J	23.1			11.2			6.97		J	35.7		J	40.7		J	25		J
1,2,3,7,8,9-HxCDD	0.1	10.3			15.2	D	J	9.41			5.68			4.29	J	J	19.7		J	21.9		J	15.2		J
1,2,3,4,6,7,8-HPCDD	0.01	320			635	D	J	370			222			118	B		750	B		948		J	442		B
OCDD	0.0003	2040			4500	D		2260			1430			801			5440			7540	D	J	3210		
2,3,7,8-TCDF	0.1	2.24			2			1.14			0.836	J		1.65			2.53			2.83			2.7		
1,2,3,7,8-PECDF	0.03	1.94	J		2.4	DJ		1.46	J		0.958	J		1.13	J		2.65	J		3.29	J		2.16	J	
2,3,4,7,8-PECDF	0.3	2.55	J	J	2.88	DJ		1.71	J		1.31	J		1.31	J		3.22	J		3.97	J		2.95	J	
1,2,3,4,7,8-HxCDF	0.1	6.58		J	11.2	D		6.48			4.07	J		2.38	J		14			14.5			13.6		
1,2,3,6,7,8-HxCDF	0.1	3.66	J		4.8	DJ	J	3.57	J		1.94	J		1.14	J		5.77			6.77		J	4.73	J	
1,2,3,7,8,9-HxCDF	0.1	0.349	J		0.453	DJ		0.387	J		0.161	J		0.0907	KJ	U	0.496	J		0.575	J		0.427	J	
2,3,4,6,7,8-HxCDF	0.1	3.59	J	J	4.5	DJ		3.55	J	J	1.9	J	J	1.13	J		5.63			6.25			4.63	J	
1,2,3,4,6,7,8-HPCDF	0.01	104			178	D		134			72.7			35.8	B		198	B		206			155	B	
1,2,3,4,7,8,9-HPCDF	0.01	3.77	J		7.63	DJ		4.62	J		2.4	J		0.937	BJ		7.01	B		8.51			6.69	B	
OCDF	0.0003	143			386	D		189			147			0.273	B	U	295	B		400			287	B	
TEQ 1/2 DL		14.48			21.60			14.10			8.18			5.79			25.71			30.59			18.92		
TEQ 0 DL		14.48			21.60			14.10			8.18			5.79			25.71			30.59			18.92		
Conventionals																									
Total Organic Carbon (% DW)		5.62			4.62			2.67			2.45			1.12			3.55			3.53			3.5		
TVS (%)		14.6		J	14.9		J	9.44		J	6.58		J	3.95		J	9.8		J	11.8		J	11.7		J
Total Solids (%)		36.4			23.9			42.9			51.5			63.6			31.4			30			26.2		
<u>Grain Size</u>																									
Percent Gravel (>2.0 mm)		0.19			1.51			2.72			0.76			0.82			56.1			0.25			13.7		J
Percent Sand (<2.0 mm - 0.06 mm)		26.71			16.37			34.73			36.06			79.08			12.66			17.4			14.01		
Percent Silt (0.06 mm - 0.004 mm)		56.8			56			43.3			47.8			20.4			22			59.3			45.3		J
Percent Fines (<0.06 mm)		74.3			81.3			62.6			59.4			24.51			22			84.5			74.4		J
Percent Clay (<0.004 mm)		17.5			25.3			19.3			11.6			4.11			0			25.2			29.1		J

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-1. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all surface (0-10cm) sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C13	LQ	VQ	BI-C14	LQ	VQ	BI-C15	LQ	VQ	BI-C16	LQ	VQ	BI-C17	LQ	VQ	BI-C18	LQ	VQ
2,3,7,8-TCDD	1	0.669	J		0.4	J		0.537	J	J	0.449	J	J	0.766	J		0.689	J	
1,2,3,7,8-PECDD	1	3.46	J		1.78	J		2.87	J		2.77	J		4.11	J		2.96	J	
1,2,3,4,7,8-HXCDD	0.1	5.41			2.96	J		4.77			4.32	J		7.28			5.37		
1,2,3,6,7,8-HXCDD	0.1	37.3		J	17.5		J	25.9			27.3			41.5		J	24.4		J
1,2,3,7,8,9-HXCDD	0.1	16.1		J	10.2		J	13.8			13.6			20.2		J	14.6		J
1,2,3,4,6,7,8-HPCDD	0.01	903		J	428		J	538			558			780		J	542		J
OCDD	0.0003	6410			3020		J	4220			4110			5600	D	J	3590		J
2,3,7,8-TCDF	0.1	2.5			0.0656	K	U	1.57			1.62			3.12			1.78		
1,2,3,7,8-PECDF	0.03	3.57	J		1.27	J		1.91	J		2.02	J		3.64	J		2.23	J	
2,3,4,7,8-PECDF	0.3	4.78			1.45	J		2.25	J	J	2.47	J	J	4.15	J		2.93	J	
1,2,3,4,7,8-HXCDF	0.1	12.3			6			9.48		J	10.2		J	21			9.29		
1,2,3,6,7,8-HXCDF	0.1	4.4	J	J	2.83	J	J	4.59	J		4.48	J		7.61			4.56	J	J
1,2,3,7,8,9-HXCDF	0.1	0.459	J		0.234	J		0.423	J		0.387	J		0.631	J		0.566	U	
2,3,4,6,7,8-HXCDF	0.1	4.49	J		2.59	J		4.01	J	J	4.3	J	J	6.89			4.46	J	
1,2,3,4,6,7,8-HPCDF	0.01	114			161			161			160			250			115		
1,2,3,4,7,8,9-HPCDF	0.01	4.71			3.8	J		6.88			6.25			9.09		J	5.88		
OCDF	0.0003	173			245			340			280			485		J	231		
TEQ 1/2 DL		26.16			13.80			19.02			19.20			29.27			18.84		
TEQ 0 DL		26.16			13.79			19.02			19.20			29.27			18.82		
Conventionals																			
Total Organic Carbon (% DW)		1.93			4.59			3.88			3.81			3.47			2.44		
TVS (%)		5.93		J	15.8		J	13.4		J	13.8		J	11		J	7.02		J
Total Solids (%)		59.1			29.6			26.3			28.3			32.4			52.6		
<u>Grain Size</u>																			
Percent Gravel (>2.0 mm)		0.31			17.6			0.08			0.11			24		J	20		
Percent Sand (<2.0 mm - 0.06 mm)		37.99			30.85			13.2			14.26			16.15			34.13		
Percent Silt (0.06 mm - 0.004 mm)		57.6			41.9			72.7			57.8			46.2		J	37.4		
Percent Fines (<0.06 mm)		64.84			58.3			92.3			84.8			65.7		J	46.13		
Percent Clay (<0.004 mm)		7.24			16.4			19.6			27			19.5		J	8.73		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-2. Conventional parameters and individual dioxin/furan congener concentrations for the Capitol Lake surface (0-10cm) sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	CL-S2	LQ	VQ	CL-S5	LQ	VQ
2,3,7,8-TCDD	1	0.0555	KJ	U	0.248	J	
1,2,3,7,8-PECDD	1	0.408	J	J	0.727	J	J
1,2,3,4,7,8-HXCDD	0.1	0.674	J	J	1.18	J	J
1,2,3,6,7,8-HXCDD	0.1	2.72	J		4.65	J	
1,2,3,7,8,9-HXCDD	0.1	1.87	J		3.21	J	
1,2,3,4,6,7,8-HPCDD	0.01	49.6			107		
OCDD	0.0003	377			809		
2,3,7,8-TCDF	0.1	0.0555	KJ	U	0.0511	KJ	U
1,2,3,7,8-PECDF	0.03	0.227	J		0.419	J	
2,3,4,7,8-PECDF	0.3	0.32	J		0.583	J	
1,2,3,4,7,8-HXCDF	0.1	0.777	J		1.49	J	
1,2,3,6,7,8-HXCDF	0.1	0.512	J		0.977	J	
1,2,3,7,8,9-HXCDF	0.1	0.103	U		0.143	J	
2,3,4,6,7,8-HXCDF	0.1	0.415	J	J	0.817	J	J
1,2,3,4,6,7,8-HPCDF	0.01	10.3			18.8		
1,2,3,4,7,8,9-HPCDF	0.01	1.06	J		1.22	J	
OCDF	0.0003	26.5			54.9		
TEQ 1/2 DL		1.97			3.94		
TEQ 0 DL		1.94			3.94		
Conventionals							
Total Organic Carbon (% DW)		3.23			3.37		
TVS (%)		11.2			11		
Total Solids (%)		32.1			31.6		
<u>Grain Size</u>							
Percent Gravel (>2.0 mm)		0.74			2.56		
Percent Sand (<2.0 mm - 0.06 mm)		15.95			21.75		
Percent Silt (0.06 mm - 0.004 mm)		74.1			62.7		
Percent Fines (<0.06 mm)		82.9			76		
Percent Clay (<0.004 mm)		8.8			13.3		

B - The analyte was found in the associated method blank

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-3. Conventional parameters and individual dioxin/furan congener concentrations for the surface (0-10cm) sediment grabs at the tissue locations. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-TISSUE1-			BI-TISSUE1B-			BI-TISSUE2-			BI-TISSUE3-		
		SEDIMENT	LQ	VQ	SEDIMENT	LQ	VQ	SEDIMENT	LQ	VQ	SEDIMENT	LQ	VQ
2,3,7,8-TCDD	1	0.184	J		0.82	J		0.189	J		0.429	J	
1,2,3,7,8-PECDD	1	0.599	J	J	3.67	J	J	0.768	J	J	1.64	J	J
1,2,3,4,7,8-HXCDD	0.1	1	J	J	6.62		J	1.1	J	J	2.25	J	J
1,2,3,6,7,8-HXCDD	0.1	6.21			30			5.77			11.8		
1,2,3,7,8,9-HXCDD	0.1	2.63	J		14.9			3.12	J		6.21		
1,2,3,4,6,7,8-HPCDD	0.01	140			970			107			266		
OCDD	0.0003	1080			7930	D		715			2130		
2,3,7,8-TCDF	0.1	0.0483	KJ	U	1.37			0.667	J		1.28		
1,2,3,7,8-PECDF	0.03	0.388	J		1.3	J		0.648	J		1.36	J	
2,3,4,7,8-PECDF	0.3	0.462	J		1.71	J		0.781	J		2	J	
1,2,3,4,7,8-HXCDF	0.1	1.25	J		4.38	J		1.88	J		4.45	J	
1,2,3,6,7,8-HXCDF	0.1	0.858	J		3.32	J		1.04	J		1.85	J	
1,2,3,7,8,9-HXCDF	0.1	0.0898	U		0.275	J		0.096	J		0.182	J	
2,3,4,6,7,8-HXCDF	0.1	0.991	J	J	3.4	J	J	0.918	J	J	1.82	J	J
1,2,3,4,6,7,8-HPCDF	0.01	30.2			142			23.6			47.2		
1,2,3,4,7,8,9-HPCDF	0.01	1.42	J		5.6			0.958	J		1.73	J	
OCDF	0.0003	63			416			35.8			72.5		
TEQ 1/2 DL		4.29			25.15			4.21			9.50		
TEQ 0 DL		4.29			25.15			4.21			9.50		
Conventionals													
Total Organic Carbon (% DW)		0.77			5.82			0.88			1.48		
TVS (%)		2.84		J	12.4		J	3.77		J	4.33		J
Total Solids (%)		73.7			53			73.5			65.5		
<u>Grain Size</u>													
Percent Gravel (>2.0 mm)		0.46			28.2			18.6			0.17		
Percent Sand (<2.0 mm - 0.06 mm)		89.28			51.39			72.37			61.09		
Percent Silt (0.06 mm - 0.004 mm)		8.1			21.2			12.9			37.7		
Percent Fines (<0.06 mm)		11.81			27.29			16.12			42.97		
Percent Clay (<0.004 mm)		3.71			6.09			3.22			5.27		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-4. Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C1- 2-3FT			BI-C1- 3-4FT			BI-C1- 4-5 FT			BI-C1- 6-7FT			BI-C1- 9-10 FT			BI-C2- 1-2 FT			BI-C2- 2-3 FT		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	1.06			0.845	J		0.824	J		0.775	J		0.314	J		1.48			0.047	U	
1,2,3,7,8-PECDD	1	4.66	J	J	3.35	J	J	2.84	J		1.89	J	J	0.551	J		7.73			0.122	U	
1,2,3,4,7,8-HxCDD	0.1	6.65		J	5.03	J	J	3.37	J		1.42	J	J	0.452	J		12.9			0.179	U	
1,2,3,6,7,8-HxCDD	0.1	50		J	28.1		J	17.7		J	9.16		J	1.03	J	J	63		J	0.179	KJ	U
1,2,3,7,8,9-HxCDD	0.1	20.5		J	13.7		J	9.49		J	3.92		J	1.07	J	J	32.3		J	0.327	J	J
1,2,3,4,6,7,8-HPCDD	0.01	892	B		515	B		312		J	108	B		8.6		J	1190		J	6.01		J
OCDD	0.0003	5930	D		3470			1840		J	375			42		J	6740	D		36.8		
2,3,7,8-TCDF	0.1	2.74			0.0488	K	U	2.67			2.51			0.0782	K	U	4.15			0.228	J	
1,2,3,7,8-PECDF	0.03	3.15	J		2.75	J		2.54	J		1.49	J		0.894	J		4.92			0.112	J	
2,3,4,7,8-PECDF	0.3	3.47	J		3.82	J		3.88	J		2.28	J		1.07	J		9			0.0903	KJ	U
1,2,3,4,7,8-HxCDF	0.1	17.4			17.2			11.5			2.38	J		0.677	J		41.7			0.284	J	
1,2,3,6,7,8-HxCDF	0.1	7.91			6.27			5.17		J	2.55	J		0.61	J	J	14.4		J	0.118	J	J
1,2,3,7,8,9-HxCDF	0.1	0.631	J		0.425	J		0.351	J		0.135	J		0.116	U		0.916	J		0.113	U	
2,3,4,6,7,8-HxCDF	0.1	7.02			5.7			4.77			3.08	J		0.53	J		11.6			0.129	J	
1,2,3,4,6,7,8-HPCDF	0.01	252	B		205	B		176			92	B		2.7	J		581			3.99	J	
1,2,3,4,7,8,9-HPCDF	0.01	8.76	B		5.98	B		4	J		1.4	BJ		0.329	J		21.9			0.0931	U	
OCDF	0.0003	314	B		248	B		147			75.4	B		2.64	J		1000			4.18	J	J
TEQ 1/2 DL		31.54			21.44			15.92			8.06			1.79			50.41			0.35		
TEQ 0 DL		31.54			21.44			15.92			8.06			1.78			50.41			0.22		
Conventionals																						
Total Organic Carbon (% DW)		3.1			3.81			3.29			3.18			2.82			9.15			2.7		
TVS (%)		9.36		J	10.8		J	9.5		J	9.37		J	8.36		J	23.5		J	7.56		J
Total Solids (%)		41.4			47.9			52.2			50.9			47.8			40.4			54.5		
<u>Grain Size</u>																						
Percent Gravel (>2.0 mm)		25.3		J	6.87		J	2.92			12.2		J	2.18			15.3			7.3		
Percent Sand (<2.0 mm - 0.06 mm)		20.09			38.13			44.31			39.94			23.9			31.95			59.45		
Percent Silt (0.06 mm - 0.004 mm)		39.2		J	37.1		J	31.5			36.8		J	51.8			30.2			41.3		
Percent Fines (<0.06 mm)		59.7		J	59.6		J	51.5			49.5		J	79.1			56.4			41.31		
Percent Clay (<0.004 mm)		20.5		J	22.5		J	20			12.7		J	27.3			26.2			0.01		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-4. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C3-0-1 FT			BI-C3-1-2 FT			BI-C3-2-3 FT			BI-C3-3-4 FT			BI-C3-4-5 FT			BI-C3-6-7 Ft			BI-C4-0-1 FT											
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ										
2,3,7,8-TCDD	1	0.484	J		0.464	J		0.36	J		0.0489	KJ	U	0.0481	KJ	U	0.0469	KJ	U	0.547	DJ										
1,2,3,7,8-PECDD	1	2.38	J	J	1.99	J		1.74	J		0.599	J	J	0.125	U		0.122	U		3.65	DJ	J									
1,2,3,4,7,8-HXCDD	0.1	4.16	J	J	3.59	J		2.69	J		1	J	J	0.183	U		0.178	U		7.62	DJ	J									
1,2,3,6,7,8-HXCDD	0.1	23.6			22.2		J	19.2		J	6.31		J	0.629	J	J	0.232	J	J	36		D									
1,2,3,7,8,9-HXCDD	0.1	12.1			10.9		J	9.02		J	3.24		J	0.423	J	J	0.241	J	J	21.4		D									
1,2,3,4,6,7,8-HPCDD	0.01	535			499		J	385		J	131		B	12.7		B	3.86		BJ	944		D									
OCDD	0.0003	4430			3770			2790			966			92.4			31.3			8360		D									
2,3,7,8-TCDF	0.1	1.23			0.101		K	U	0.0667		K		U	0.429		J	0.0481		KJ	U	0.0469		U	2.41							
1,2,3,7,8-PECDF	0.03	1.7		J	1.58		J		1.37		J			0.481		J	0.0914		U		0.089		U	2.5		DJ					
2,3,4,7,8-PECDF	0.3	1.87		J	1.68		J		1.68		J			0.519		J	0.0924		U		0.09		U	3.08		DJ					
1,2,3,4,7,8-HXCDF	0.1	7.79		J	7.5				6.31					2.73		J	0.266		J		0.0853		U	15.2		D	J				
1,2,3,6,7,8-HXCDF	0.1	3.66		J	3.51		J	J	3		J		J	1.13		J	0.117		J		0.112		U	6.05		DJ					
1,2,3,7,8,9-HXCDF	0.1	0.309		J	0.356		J		0.294		J			0.0909		KJ	U		U		0.0895		U	0.0872		U	0.481		DJ		
2,3,4,6,7,8-HXCDF	0.1	3.27		J	3.13		J		2.56		J			1		J	0.115		U		0.112		U	5.4		DJ	J				
1,2,3,4,6,7,8-HPCDF	0.01	123			114				88.7					33.6		B	0.0953		BJ	U	0.0928		BJ	U	220		D				
1,2,3,4,7,8,9-HPCDF	0.01	5.02		J	4.49		J		3.29		J			1.39		BJ	0.154		BJ		0.0825		U		9.71		DJ				
OCDF	0.0003	266			166				122					0.274		B	U		U		0.269		BJ	U	0.262		BJ	U	535		D
TEQ 1/2 DL		17.13			15.48				12.60					4.33			0.42				0.23				29.06						
TEQ 0 DL		17.13			15.48				12.60					4.30			0.30				0.10				29.06						
Conventionals																															
Total Organic Carbon (% DW)		2.53			2.11				1.47					1.14			1.19			1.25				3.94							
TVS (%)		11.9		J	8.29		J		6.29		J			5.96		J	5.2		J	4.55		J		14		J					
Total Solids (%)		33.3			49.2				59					66.2			64.2			65.2				23.9							
<u>Grain Size</u>																															
Percent Gravel (>2.0 mm)		23			29.7				20.7					5.48		J	7.45		J	7.02		J		8.4							
Percent Sand (<2.0 mm - 0.06 mm)		26.22			33.11				41.81					45.9			23.16			15.59				15.54							
Percent Silt (0.06 mm - 0.004 mm)		28.3			21.7				21.3					34.6		J	53.7		J	63.7		J		51.9							
Percent Fines (<0.06 mm)		56.1			41.6				38.4					48.4		J	67.3		J	77.3		J		84.5							
Percent Clay (<0.004 mm)		27.8			19.9				17.1					13.8		J	13.6		J	13.6		J		32.6							

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-4. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C4- 3-4 FT			BI-C4- 6-7 FT			BI-C5- 3-4 FT			BI-C5- 6-7 FT			BI-C6- 1-2 FT			BI-C6- 2-3 FT			BI-C7- 1-2 FT		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.917	DJ		1.81	DJ		8.56	DJ		11.6	KDJ	U	0.0475	KJ	U	0.0466	U		0.0474	KJ	U
1,2,3,7,8-PECDD	1	4.59	DJ	J	6.01	DJ	J	31.6	DJ	J	55.5	DJ	J	0.207	J	J	0.121	U	UJ	1	J	J
1,2,3,4,7,8-HxCDD	0.1	7.87	DJ	J	8.6	DJ	J	32.5	DJ	J	89.8	DJ	J	0.216	J	J	0.177	U	UJ	1.16	J	J
1,2,3,6,7,8-HxCDD	0.1	52.1	D		52.9	D		267	D		3130	D		1.6	J		0.168	KJ	U	6.6		
1,2,3,7,8,9-HxCDD	0.1	26.1	D		22	DJ		114	D		413	DJ		0.763	J		0.277	J		3.43	J	
1,2,3,4,6,7,8-HPCDD	0.01	1300	D		1190	D		4800	D		46700	D		25.3			8.42			109		
OCDD	0.0003	10800	D		8720	D		31800	D		402000	D		149			51.6			730		
2,3,7,8-TCDF	0.1	3.44			6.26			15			280			0.0816	U		0.131	U		1.09		
1,2,3,7,8-PECDF	0.03	4.32	DJ		11.1	DJ		60.3	D		925	DJ		0.143	J		0.0886	U		0.855	J	
2,3,4,7,8-PECDF	0.3	5.37	DJ		14.9	DJ		53.6	D		3140	D		0.171	J		0.0896	U		1.15	J	
1,2,3,4,7,8-HxCDF	0.1	31.9	D	J	112	D	J	335	D	J	14900	D	J	0.562	J	J	0.192	J	J	2.35	J	J
1,2,3,6,7,8-HxCDF	0.1	10.9	DJ		28.7	D		87.9	D		2320	D		0.278	J		0.112	U	UJ	1.14	J	
1,2,3,7,8,9-HxCDF	0.1	0.777	DJ		0.899	DJ		19.9	DJ		170	DJ		0.0884	U		0.0868	U		0.099	J	
2,3,4,6,7,8-HxCDF	0.1	7.78	DJ	J	14.4	DJ	J	57.5	D	J	976	D	J	0.27	J	J	0.112	U		1.13	J	J
1,2,3,4,6,7,8-HPCDF	0.01	339	D		1020	D		2020	D		31600	D		9.59			3.23	J		31		
1,2,3,4,7,8,9-HPCDF	0.01	11.9	DJ		23.9	D		128	D		3730	D		0.344	J		0.0821	KJ	U	1.05	J	
OCDF	0.0003	566	D		1250	D		2240	D		42300	D		11			3.73	J		35.1		
TEQ 1/2 DL		41.25			62.53			230.62			4212.52			1.06			0.32			4.73		
TEQ 0 DL		41.25			62.53			230.62			4206.72			1.03			0.18			4.71		
Conventionals																						
Total Organic Carbon (% DW)		4.62			3.71			8.24			7.56			1.52			0.77			1.84		
TVS (%)		14.2		J	10.3		J	13.8		J	15.9		J	4.7		J	3.69		J	5.76		J
Total Solids (%)		38.4			57.1			40.2			36.8			56.2			59.8			56.6		
<u>Grain Size</u>																						
Percent Gravel (>2.0 mm)		9.75			11.5			23.9			68.9		J	0.34			0.23			2.84		
Percent Sand (<2.0 mm - 0.06 mm)		19.84			35.72			14.58			10.53			40.04			55.35			37.78		
Percent Silt (0.06 mm - 0.004 mm)		35.5			27			30.1			19.4		J	42.3			32.3			44.2		
Percent Fines (<0.06 mm)		72.5			52.5			66.7			35.8			60			46			59.6		
Percent Clay (<0.004 mm)		37			25.5			36.6			16.4			17.7			13.7			15.4		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-4. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C7-			BI-C10-			BI-C10-			BI-C12-			BI-C12-			BI-C13-			BI-C13-		
		2-3 FT	LQ	VQ	2-3 FT	LQ	VQ	4-5 FT	LQ	VQ	2-3FT	LQ	VQ	4-5FT	LQ	VQ	1-2 FT	LQ	VQ	2-3 FT	LQ	VQ
2,3,7,8-TCDD	1	0.0463	KJ	U	0.048	KJ	U	0.0367	U		0.0483	KJ	U	0.0486	U		0.55	J		1.14		
1,2,3,7,8-PECDD	1	0.12	KJ	UJ	0.231	J	J	0.0953	U	UJ	0.126	U		0.126	U		1.84	J	J	2.57	J	J
1,2,3,4,7,8-HXCDD	0.1	0.176	U	UJ	0.411	J	J	0.139	U	UJ	0.184	U		0.185	U		2.52	J	J	1.69	J	J
1,2,3,6,7,8-HXCDD	0.1	0.549	J		2.06	J		0.132	U		0.174	KJ	U	0.175	U		16.7			6.38		
1,2,3,7,8,9-HXCDD	0.1	0.527	J		1.18	J		0.125	U		0.329	J	J	0.249	J	J	7.53			4.17	J	
1,2,3,4,6,7,8-HPCDD	0.01	7.7			55.6			1.73	J		4.52	BJ		2.22	BJ		380			58.7		
OCDD	0.0003	60.5			641			15.1	J		35.7			25.8			2830			322		
2,3,7,8-TCDF	0.1	0.141	KJ	U	0.0854	U		0.0367	U		0.0483	KJ	U	0.0486	U		1.6			4.09		
1,2,3,7,8-PECDF	0.03	0.456	J		0.166	J		0.0696	U		0.0918	KJ	U	0.0923	U		2.04	J		3.06	J	
2,3,4,7,8-PECDF	0.3	0.483	J		0.206	J		0.0704	U		0.131	J		0.0933	U		2.83	J		3.42	J	
1,2,3,4,7,8-HXCDF	0.1	0.377	J	J	0.708	J	J	0.0667	U	UJ	0.0879	KJ	U	0.0884	U		7.29		J	4.29	J	J
1,2,3,6,7,8-HXCDF	0.1	0.271	J		0.291	J		0.088	U		0.116	U		0.117	U		3.65	J		3.74	J	
1,2,3,7,8,9-HXCDF	0.1	0.0861	U		0.0893	U		0.0682	U		0.0899	U		0.0904	U		0.284	J		0.214	J	
2,3,4,6,7,8-HXCDF	0.1	0.258	J	J	0.115	KJ	UJ	0.088	U	UJ	0.116	U		0.117	U		3.84	J	J	4.21	J	J
1,2,3,4,6,7,8-HPCDF	0.01	2.16	J		8.26			0.229	J		0.0957	BJ	U	0.0962	BJ	U	245			369		
1,2,3,4,7,8,9-HPCDF	0.01	0.112	J		0.437	J		0.0645	U		0.085	U		0.0855	U		2.43	J		1.47	J	
OCDF	0.0003	2.03	J		14.6			0.348	J		0.271	BJ	U	0.272	BJ	U	133			116		
TEQ 1/2 DL		0.64			1.65			0.14			0.26			0.20			14.80			12.13		
TEQ 0 DL		0.60			1.61			0.02			0.13			0.05			14.80			12.13		
Conventionals																						
Total Organic Carbon (% DW)		1.9			0.74			0.47			2.13			1.76			1.86			1.48		
TVS (%)		7.44		J	2.87		J	2.33		J	6.67		J	5.53		J	6.41		J	6.74		J
Total Solids (%)		50.5			70.1			75			42.9			51.5			56.6			60.6		
<u>Grain Size</u>																						
Percent Gravel (>2.0 mm)		0.63			6.4			4.74			6.04		J	7.09		J	0.58			7.84		
Percent Sand (<2.0 mm - 0.06 mm)		18.3			63.9			83.02			15.16			21.21			31.36			26.81		
Percent Silt (0.06 mm - 0.004 mm)		53.9			21.1			13			41.1		J	44.5		J	43.2			46.8		
Percent Fines (<0.06 mm)		83			30.1			18.43			78.4		J	74.2		J	64			63.1		
Percent Clay (<0.004 mm)		29.1			9			5.43			37.3		J	29.7		J	20.8			16.3		

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Table B-4. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C13-4-5FT			BI-C13-6-7FT			BI-C14-3-4FT			BI-C14-6-7FT			BI-C14-9-10FT			BI-C15-2-3 FT			BI-C15-4-5 FT		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.0488	KJ	U	0.0472	KJ	U	0.0474	KJ	U	0.0455	U	0.0501	KJ	U	0.788	J		0.878	DJ		
1,2,3,7,8-PECDD	1	0.127	KJ	U	0.123	KJ	U	0.951	J	J	0.118	U	0.13	U		4.24	J		4	DJ	J	
1,2,3,4,7,8-HXCDD	0.1	0.185	U		0.179	U		1.61	J	J	0.173	U	0.19	U		8.03			6.14	DJ	J	
1,2,3,6,7,8-HXCDD	0.1	0.176	KJ	U	0.304	J	J	7.78		J	0.164	U	0.18	U		43.3			45.1	D		
1,2,3,7,8,9-HXCDD	0.1	0.457	J	J	0.401	J	J	4.24	J	J	0.155	U	0.17	U		22.2			18.3	DJ		
1,2,3,4,6,7,8-HPCDD	0.01	4.8	BJ		4.85	B		146	B		0.155	BJ	U	1.02	J	J		954		967	D	
OCDD	0.0003	38.1			42.7			903			11.7		J	11.2		J	7190	D		7140	D	
2,3,7,8-TCDF	0.1	0.248	J		0.24	J		0.317	J		0.0455	U	UJ	0.0501	U		2.4			2.66		
1,2,3,7,8-PECDF	0.03	0.175	J		0.169	J		0.709	J		0.0864	U		0.0951	U		2.93	J		4.65	DJ	
2,3,4,7,8-PECDF	0.3	0.201	J		0.183	J		1.24	J		0.0874	U		0.0961	U		3.48	J		6.66	DJ	
1,2,3,4,7,8-HXCDF	0.1	0.142	J		0.0858	KJ	U	6.97			0.0828	U		0.0911	U		18.5			37.7	D	J
1,2,3,6,7,8-HXCDF	0.1	0.117	U		0.13	J		2.18	J		0.109	U		0.12	U		7.05			11.3	DJ	
1,2,3,7,8,9-HXCDF	0.1	0.0907	U		0.0877	U		0.126	J		0.0846	U		0.0931	U		0.611	J		1.16	DJ	
2,3,4,6,7,8-HXCDF	0.1	0.117	KJ	U	0.122	J		1.98	J		0.109	U		0.12	U		6.56			7.94	DJ	J
1,2,3,4,6,7,8-HPCDF	0.01	0.0966	BJ	U	0.0934	BJ	U	92.2	B		0.0901	U		0.0991	KJ	U	400			414	D	
1,2,3,4,7,8,9-HPCDF	0.01	0.0859	U		0.083	U		3.03	BJ		0.0801	U		0.0881	U		11.4			18.9	DJ	
OCDF	0.0003	0.273	BJ	U	0.264	BJ	U	159	B		0.255	U		0.28	U		641			771	D	
TEQ 1/2 DL		0.33			0.34			6.62			0.15			0.17			33.03			36.42		
TEQ 0 DL		0.21			0.24			6.60			0.00			0.01			33.03			36.42		
Conventionals																						
Total Organic Carbon (% DW)		2.04			2.22			0.39			0.8			1.05			3.37			2.35		
TVS (%)		9.28		J	9.35		J	2.77		J	4.41		J	4.97		J	10.9		J	5.63		J
Total Solids (%)		52.5			47.9			76.4			68.1			64.6			33.8			61		
<u>Grain Size</u>																						
Percent Gravel (>2.0 mm)		8.02		J	1.66		J	12.2		J	15.1		J	27.3		J	5.71			25.9		
Percent Sand (<2.0 mm - 0.06 mm)		14.07			8.23			75.43			45.26			35.58			18.51			29.55		
Percent Silt (0.06 mm - 0.004 mm)		45.3		J	46.5		J	10.5		J	23.5		J	23		J	41.6			23.9		
Percent Fines (<0.06 mm)		74.6		J	76.6		J	14.24		J	39.3		J	40.5		J	82.2			44.8		
Percent Clay (<0.004 mm)		29.3		J	30.1		J	3.74		J	15.8		J	17.5		J	40.6			20.9		

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Table B-4. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C15-6-7FT			BI-C15-9-10FT			BI-C16-1-2 FT			BI-C16-2-3 FT			BI-C17-1-2FT			BI-C17-3-4FT			BI-C18-1-2- FT		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.046	KJ	U	0.0478	U		0.174	J		0.0484	U		0.0576	U		0.0497	U		0.0474	KJ	U
1,2,3,7,8-PECDD	1	0.12	U		0.124	U		0.541	J	J	0.126	U	UJ	0.139	J		0.129	U		0.212	J	J
1,2,3,4,7,8-HxCDD	0.1	0.319	J		0.182	U		0.727	J	J	0.184	U	UJ	0.203	J		0.189	U		0.363	J	J
1,2,3,6,7,8-HxCDD	0.1	1.14	J	J	0.172	U		4.66	J		0.174	U		1.02	J	J	0.179	U		1.46	J	
1,2,3,7,8,9-HxCDD	0.1	0.613	J	J	0.163	KJ	U	1.95	J		0.164	U		0.484	J	J	0.169	KJ	U	0.892	J	
1,2,3,4,6,7,8-HPCDD	0.01	51		J	2.92	J	J	93.9			1.41	J		16.5	J		1.57	J	J	32.4		
OCDD	0.0003	490		J	219		J	627			9.6	J		120	J		15.8	J		210		
2,3,7,8-TCDF	0.1	0.046	U		0.0478	U		0.101	KJ	U	0.0484	U		0.0505	KJ	U	0.0497	U		0.0751	KJ	U
1,2,3,7,8-PECDF	0.03	0.0874	U		0.0908	U		0.517	J		0.0919	U		0.096	U		0.0943	U		0.157	J	
2,3,4,7,8-PECDF	0.3	0.0883	U		0.0918	U		1.01	J		0.0928	U		0.175	J		0.0953	U		0.201	J	
1,2,3,4,7,8-HxCDF	0.1	0.361	J		0.087	U		4.67	J	J	0.088	U	UJ	0.462	J		0.0904	U		0.637	J	J
1,2,3,6,7,8-HxCDF	0.1	0.13	J		0.115	U		1.42	J		0.116	U		0.209	J		0.119	U		0.338	J	
1,2,3,7,8,9-HxCDF	0.1	0.0856	U		0.0889	U		0.107	U		0.0899	U		0.0939	U		0.0924	U		0.0882	U	
2,3,4,6,7,8-HxCDF	0.1	0.132	J		0.115	U		1.12	J	J	0.116	U	UJ	0.254	J		0.119	U		0.308	J	J
1,2,3,4,6,7,8-HPCDF	0.01	7.23			0.0946	U		89.8			0.677	J		6.24			0.0983	KJ	U	25.9		
1,2,3,4,7,8,9-HPCDF	0.01	0.923	J	J	0.0841	U		2.43	J		0.0851	U		0.269	J	J	0.0874	U		0.361	J	
OCDF	0.0003	44.2		J	0.268	U		146			0.912	J		9.19	J	J	0.297	J	J	18.1		
TEQ 1/2 DL		1.13			0.25			4.59			0.18			0.76			0.18			1.36		
TEQ 0 DL		1.02			0.09			4.58			0.02			0.72			0.02			1.33		
Conventionals																						
Total Organic Carbon (% DW)		0.1			1.14			0.87			0.08			2.02			1.53			0.86		
TVS (%)		1.25		J	3.1		J	2.55		J	1.04		J	5.76		J	6.2		J	5.33		J
Total Solids (%)		87.3			74.9			75.5			88.6			45.2			54.2			53.5		
<u>Grain Size</u>																						
Percent Gravel (>2.0 mm)		61.6		J	11.9		J	63			48.1			17.9		J	16.1		J	5.34		
Percent Sand (<2.0 mm - 0.06 mm)		42.19			58.18			25.16			50.67			28.7			29.62			56.79		
Percent Silt (0.06 mm - 0.004 mm)		0.76		J	24.6		J	10.5			1.14			41.2		J	43.4		J	48.8		
Percent Fines (<0.06 mm)		1.38		J	29.84		J	16.48			1.63			55.6		J	56.2		J	48.81		
Percent Clay (<0.004 mm)		0.62		J	5.24		J	5.98			0.49			14.4		J	12.8		J	0.01		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-4. (continued) Conventional parameters and individual dioxin/furan congener concentrations for all subsurface sediment grabs. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

Congener (pg/g)	TEF	BI-C18-		
		2-3 FT	LQ	VQ
2,3,7,8-TCDD	1	0.0497	U	
1,2,3,7,8-PECDD	1	0.129	U	UJ
1,2,3,4,7,8-HXCDD	0.1	0.189	U	UJ
1,2,3,6,7,8-HXCDD	0.1	0.179	U	
1,2,3,7,8,9-HXCDD	0.1	0.169	U	
1,2,3,4,6,7,8-HPCDD	0.01	2.03	J	
OCDD	0.0003	15		
2,3,7,8-TCDF	0.1	0.0497	U	
1,2,3,7,8-PECDF	0.03	0.0943	U	
2,3,4,7,8-PECDF	0.3	0.0953	U	
1,2,3,4,7,8-HXCDF	0.1	0.0904	U	UJ
1,2,3,6,7,8-HXCDF	0.1	0.119	U	
1,2,3,7,8,9-HXCDF	0.1	0.0924	U	
2,3,4,6,7,8-HXCDF	0.1	0.119	U	UJ
1,2,3,4,6,7,8-HPCDF	0.01	0.346	J	
1,2,3,4,7,8,9-HPCDF	0.01	0.0874	U	
OCDF	0.0003	0.516	J	
TEQ 1/2 DL		0.18		
TEQ 0 DL		0.03		
Conventionals				
Total Organic Carbon (% DW)		0.78		
TVS (%)		2.9		J
Total Solids (%)		70.5		
<u>Grain Size</u>				
Percent Gravel (>2.0 mm)		5.75		
Percent Sand (<2.0 mm - 0.06 mm)		65.96		
Percent Silt (0.06 mm - 0.004 mm)		24.7		
Percent Fines (<0.06 mm)		31.54		
Percent Clay (<0.004 mm)		6.84		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-5. Individual dioxin/furan congener concentrations for benthic invertebrates.

Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

L = littleneck clam, G = ghost shrimp, MAC = bent nose clam

Congener (pg/g)	TEF	BI-S30- MAC 1			BI-S30- MAC 2			BI-S30- MAC 3			BI-TISSUE1- G1			BI-TISSUE1- G2			BI-TISSUE1- G3		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.113			0.106	J		0.14			0.244			0.175			0.201		
1,2,3,7,8-PECDD	1	0.493	J		0.48	J		0.505	J		1.47			1.03			1.14	G	J
1,2,3,4,7,8-HXCDD	0.1	0.874			0.726			0.838			1.17			0.837			0.861		
1,2,3,6,7,8-HXCDD	0.1	3.34			3.13			3.2			8.32			5.45			5.87		
1,2,3,7,8,9-HXCDD	0.1	1.87			1.83			2.06			1.91			1.31			1.38		
1,2,3,4,6,7,8-HPCDD	0.01	55.9			53.7			66.1			19.4			12.8			15.4		
OCDD	0.0003	350			349			437			62			52.9			65.4		
2,3,7,8-TCDF	0.1	0.257			0.222			0.276			0.692			0.54			0.546		
1,2,3,7,8-PECDF	0.03	0.256	J		0.222	J		0.252	J		0.686			0.431	J		0.46	J	
2,3,4,7,8-PECDF	0.3	0.316	J		0.326	J		0.326	J		0.943			0.596			0.657		
1,2,3,4,7,8-HXCDF	0.1	1.15			1.09			1.18			1.5			1.06			1.15		
1,2,3,6,7,8-HXCDF	0.1	0.536			0.506			0.537			0.896			0.523			0.601		
1,2,3,7,8,9-HXCDF	0.1	0.0371	KJ	U	0.0371	KJ	U	0.061	J		0.067	J		0.047	J		0.049	J	
2,3,4,6,7,8-HXCDF	0.1	0.525	J		0.45	J		0.497	J		0.459	J		0.331	J		0.391	J	
1,2,3,4,6,7,8-HPCDF	0.01	12.5			11.4			12.6			6.92			4.24			5.11		
1,2,3,4,7,8,9-HPCDF	0.01	0.723			0.733			0.918			0.205	J		0.0512	KJ	U	0.179	J	
OCDF	0.0003	24.9			25.2			28.7			4.34	B		2.93			4.03		
TEQ 1/2 DL		2.37			2.26			2.55			3.80			2.59			2.86		
TEQ 0 DL		2.37			2.26			2.55			3.80			2.59			2.86		
Lipid %		0.77			0.68			0.71			2.28			0.86			0.98		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-5. (continued) Individual dioxin/furan congener concentrations for benthic invertebrates.

Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

L = littleneck clam, G = ghost shrimp, MAC = bent nose clam

Congener (pg/g)	TEF	BI-TISSUE1B-L1			BI-TISSUE1B-L2			BI-TISSUE1B-L3			BI-TISSUE1-MAC1			BI-TISSUE1-MAC 2			BI-TISSUE1-MAC 3		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.0198	KJ	U	0.0199	KJ	U	0.0199	KJ	U	0.036	J	0.0199	KJ	U	0.058	J		
1,2,3,7,8-PECDD	1	0.078	J		0.083	J		0.085	J		0.151	J	0.206	J		0.175	J		
1,2,3,4,7,8-HXCDD	0.1	0.095	J		0.0798	U		0.092	J		0.241	J	0.331	J		0.293	J		
1,2,3,6,7,8-HXCDD	0.1	0.566			0.476	J		0.519	J		1.47		1.62			1.64			
1,2,3,7,8,9-HXCDD	0.1	0.215	J		0.205	J		0.224	J		0.585		0.792			0.714			
1,2,3,4,6,7,8-HPCDD	0.01	5.22			4.12			5.65			21.1		24.8			22.4			
OCDD	0.0003	22.3			20			30.8			112		157			137			
2,3,7,8-TCDF	0.1	0.0198	KJ	U	0.0199	KJ	U	0.087	J		0.114		0.0199	KJ	U	0.02	KJ	U	
1,2,3,7,8-PECDF	0.03	0.038	KJ	U	0.0407	U		0.0407	U		0.112	J	0.105	J		0.113	J		
2,3,4,7,8-PECDF	0.3	0.066	J		0.071	J		0.0407	KJ	U	0.116	J	0.134	J		0.113	J		
1,2,3,4,7,8-HXCDF	0.1	0.125	J		0.107	J		0.155	J		0.346	J	0.448	J		0.394	J		
1,2,3,6,7,8-HXCDF	0.1	0.083	J		0.0371	KJ	U	0.078	J		0.211	J	0.245	J		0.237	J		
1,2,3,7,8,9-HXCDF	0.1	0.0368	U		0.0371	U		0.0371	U		0.037	J	0.0371	U		0.0371	U		
2,3,4,6,7,8-HXCDF	0.1	0.089	J		0.087	J		0.109	J		0.239	J	0.0371	KJ	U	0.252	J		
1,2,3,4,6,7,8-HPCDF	0.01	1.75			1.3			1.69			6.94		7.61			7.08			
1,2,3,4,7,8,9-HPCDF	0.01	0.067	J		0.0511	U		0.051	U		0.241	J	0.282	J		0.268	J		
OCDF	0.0003	1.73	B		1.38			2.46			9.34	B	10.9			9.39			
TEQ 1/2 DL		0.31			0.27			0.31			0.87		0.98			0.97			
TEQ 0 DL		0.29			0.25			0.29			0.87		0.97			0.96			
Lipid %		0.97			0.89			0.73			0.63		0.51			0.48			

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-5. (continued) Individual dioxin/furan congener concentrations for benthic invertebrates. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

L = littleneck clam, G = ghost shrimp, MAC = bent nose clam

Congener (pg/g)	TEF	BI-TISSUE2-G1			BI-TISSUE2-G2			BI-TISSUE2-G3			BI-TISSUE2-L1			BI-TISSUE2-L2			BI-TISSUE2-L3		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.174			0.265			0.186			0.0197	KJ	U	0.0198	KJ	U	0.0195	U	
1,2,3,7,8-PECDD	1	1.27			1.97			1.68			0.0512	KJ	U	0.248	J		0.065	J	
1,2,3,4,7,8-HxCDD	0.1	1.21			2.28			1.95			0.0788	U		0.487	J		0.086	J	
1,2,3,6,7,8-HxCDD	0.1	8.45			12.3			11.3			0.412	J		2.36			0.446	J	
1,2,3,7,8,9-HxCDD	0.1	2.16			3.73			3.21			0.164	J		1.49			0.219	J	
1,2,3,4,6,7,8-HPCDD	0.01	21.7			33.3			30.7			4.06			45.7			4.19		
OCDD	0.0003	51.9			84			75.1			17.1			313			18.4		
2,3,7,8-TCDF	0.1	0.599			1.08			0.816			0.0197	KJ	U	0.0764	KJ	U	0.0643	KJ	U
1,2,3,7,8-PECDF	0.03	0.807			1.09			0.886			0.0378	KJ	U	0.176	J		0.043	J	
2,3,4,7,8-PECDF	0.3	1.15			1.58			1.37			0.056	J		0.211	J		0.074	J	
1,2,3,4,7,8-HxCDF	0.1	1.99			3.17			2.61			0.11	J		0.826			0.137	J	
1,2,3,6,7,8-HxCDF	0.1	0.852			1.32			1.12			0.063	J		0.395	J		0.073	J	
1,2,3,7,8,9-HxCDF	0.1	0.061	J		0.0371	KJ	U	0.056	J		0.0366	U		0.0369	U		0.0363	U	
2,3,4,6,7,8-HxCDF	0.1	0.454	J		0.707			0.541			0.06	J		0.357	J		0.061	J	
1,2,3,4,6,7,8-HPCDF	0.01	5.16			7.6			6.55			0.939			9.96			0.988		
1,2,3,4,7,8,9-HPCDF	0.01	0.143	J		0.207	J		0.181	J		0.056	J		0.423	J		0.0417	U	
OCDF	0.0003	2.5	B		3.46			5.12			0.966	BJ		14	B		1.04	BJ	
TEQ 1/2 DL		3.68			5.64			4.86			0.20			1.58			0.26		
TEQ 0 DL		3.68			5.64			4.86			0.15			1.57			0.25		
Lipid %		1.75			1.72			1.47			0.89			0.66			0.64		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-5. (continued) Individual dioxin/furan congener concentrations for benthic invertebrates. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

L = littleneck clam, G = ghost shrimp, MAC = bent nose clam

Congener (pg/g)	TEF	BI-TISSUE2-MAC1			BI-TISSUE2-MAC 2			BI-TISSUE2-MAC 3			BI-TISSUE-G1			BI-TISSUE-G2			BI-TISSUE-G3		
		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.0383	KJ	U	0.0276	KJ	U	0.0211	KJ	U	0.236		0.209		0.221				
1,2,3,7,8-PECDD	1	0.164	J		0.135	J		0.17	J		1.8		1.52		1.68				
1,2,3,4,7,8-HXCDD	0.1	0.251	J		0.244	J		0.271	J		1.85		1.5		1.66				
1,2,3,6,7,8-HXCDD	0.1	1.16			1.19			1.22			12.5		8.97		10.3				
1,2,3,7,8,9-HXCDD	0.1	0.573	J		0.658	J		0.669			3.35		2.66		2.99				
1,2,3,4,6,7,8-HPCDD	0.01	18.7			18			18.2			42.1		31.5		35.8				
OCDD	0.0003	104			108			110			72.8		82		94.4				
2,3,7,8-TCDF	0.1	0.0383	KJ	U	0.081	KJ	U	0.0839	KJ	U	0.731		0.71		0.828				
1,2,3,7,8-PECDF	0.03	0.098	J		0.053	KJ	U	0.108	J		1.11		0.923		0.908				
2,3,4,7,8-PECDF	0.3	0.152	J		0.152	J		0.125	J		1.75		1.36		1.45				
1,2,3,4,7,8-HXCDF	0.1	0.374	J		0.365	J		0.407	J		3.18		2.66		2.86				
1,2,3,6,7,8-HXCDF	0.1	0.193	J		0.166	J		0.173	J		1.19		0.937		1.03				
1,2,3,7,8,9-HXCDF	0.1	0.0712	U		0.0513	U		0.0393	U		0.0371	KJ	U	0.053	J	0.0372	KJ	U	
2,3,4,6,7,8-HXCDF	0.1	0.178	J		0.191	J		0.174	J		0.714		0.556		0.601				
1,2,3,4,6,7,8-HPCDF	0.01	4.29			4.15			4.16			7.56		5.79		6.58				
1,2,3,4,7,8,9-HPCDF	0.01	0.0819	KJ	U	0.165	J		0.183	J		0.131	J	0.115	J	0.153	J			
OCDF	0.0003	5.82	B		5.43	B		5.09	B		1.99	B	2.31		3.12				
TEQ 1/2 DL		0.77			0.74			0.78			5.47		4.37		4.85				
TEQ 0 DL		0.75			0.72			0.76			5.47		4.37		4.84				
Lipid %		0.8			0.39			0.35			2.19		1.85		1.89				

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-5. (continued) Individual dioxin/furan congener concentrations for benthic invertebrates. Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

L = littleneck clam, G = ghost shrimp, MAC = bent nose clam

Congener (pg/g)	TEF	BI-TISSUE3- MAC1			BI-TISSUE3- MAC 2			BI-TISSUE3- MAC 3		
		LQ	VQ		LQ	VQ		LQ	VQ	
2,3,7,8-TCDD	1	0.02	KJ	U	0.0199	KJ	U	0.077	J	
1,2,3,7,8-PECDD	1	0.183	J		0.393	J		0.296	J	
1,2,3,4,7,8-HXCDD	0.1	0.291	J		0.66			0.496	J	
1,2,3,6,7,8-HXCDD	0.1	1.63			3.23			2.54		
1,2,3,7,8,9-HXCDD	0.1	0.772			1.79			1.34		
1,2,3,4,6,7,8-HPCDD	0.01	31.4			67.9			50.2		
OCDD	0.0003	190			483			341		
2,3,7,8-TCDF	0.1	0.11			0.175			0.135		
1,2,3,7,8-PECDF	0.03	0.139	J		0.266	J		0.203	J	
2,3,4,7,8-PECDF	0.3	0.201	J		0.341	J		0.275	J	
1,2,3,4,7,8-HXCDF	0.1	0.593			1.3			0.97		
1,2,3,6,7,8-HXCDF	0.1	0.243	J		0.0342	U		0.367	J	
1,2,3,7,8,9-HXCDF	0.1	0.0372	U		0.043	J		0.0368	U	
2,3,4,6,7,8-HXCDF	0.1	0.215	J		0.442	J		0.335	J	
1,2,3,4,6,7,8-HPCDF	0.01	6.33			13.8			9.6		
1,2,3,4,7,8,9-HPCDF	0.01	0.229	J		0.484	J		0.337	J	
OCDF	0.0003	8.83	B		19.4	B		13.1	B	
TEQ 1/2 DL		1.08			2.25			1.79		
TEQ 0 DL		1.07			2.24			1.79		
Lipid %		0.79			0.36			0.59		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-6. Individual dioxin/furan congener concentrations for trawl samples.

Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

SF = starry flounder, E = English sole

Congener (pg/g)	TEF	BI-TRAWL1-			BI-TRAWL1-			BI-TRAWL1-			BI-TRAWL2-			BI-TRAWL2-			BI-TRAWL2-					
		SF1	LQ	VQ	SF2	LQ	VQ	SF3	LQ	VQ	SF1	LQ	VQ	SF2	LQ	VQ	SF3	LQ	VQ	SF4	LQ	VQ
2,3,7,8-TCDD	1	0.087	J		0.0196	KJ	U	0.02	KJ	U	0.0198	K	U	0.02	K	U	0.151			0.02	KJ	U
1,2,3,7,8-PECDD	1	0.209	J		0.153	J		0.178	J		0.325	J		0.0519	KJ	U	0.267	J		0.207	J	
1,2,3,4,7,8-HXCDD	0.1	0.0794	U		0.0785	U		0.0799	U		0.0792	U		0.0799	U		0.0776	U		0.0799	U	
1,2,3,6,7,8-HXCDD	0.1	0.594			0.0487	KJ	U	0.36	J		1.04			0.699			0.951			0.701		
1,2,3,7,8,9-HXCDD	0.1	0.087	J		0.062	J		0.066	J		0.117	J		0.0356	KJ	U	0.03345	KJ	U	0.127	J	
1,2,3,4,6,7,8-HPCDD	0.01	1.04			0.887			0.902			1.38			1.01			1.01			0.674		
OCDD	0.0003	2.53			2.37			2.8			2.32			1.72			2.54			0.978	J	
2,3,7,8-TCDF	0.1	0.284			0.213			0.056	K	U	0.424			0.452			0.553			0.56		
1,2,3,7,8-PECDF	0.03	0.073	J		0.049	J		0.065	J		0.038	KJ	U	0.075	J		0.0373	KJ	U	0.082	J	
2,3,4,7,8-PECDF	0.3	0.221	J		0.161	J		0.162	J		0.366	J		0.239	J		0.322	J		0.238	J	
1,2,3,4,7,8-HXCDF	0.1	0.163	J		0.097	J		0.112	J		0.314	J		0.165	J		0.156	J		0.196	J	
1,2,3,6,7,8-HXCDF	0.1	0.086	J		0.045	J		0.041	J		0.14	J		0.072	J		0.069	J		0.087	J	
1,2,3,7,8,9-HXCDF	0.1	0.0369	U		0.0365	U		0.0371	U		0.0368	U		0.0372	U		0.0361	U		0.0372	U	
2,3,4,6,7,8-HXCDF	0.1	0.0306	KJ	U	0.037	J		0.046	J		0.111	J		0.059	J		0.073	J		0.061	J	
1,2,3,4,6,7,8-HPCDF	0.01	0.304	J		0.235	J		0.255	J		0.361	J		0.296	J		0.314	J		0.226	J	
1,2,3,4,7,8,9-HPCDF	0.01	0.0425	U		0.042	U		0.0427	U		0.0424	U		0.0427	U		0.0415	U		0.0428	U	
OCDF	0.0003	0.242	BJ		0.0389	BJ	U	0.301	BJ		0.0392	KBJ	U	0.0396	KBJ	U	0.0384	BJ	U	0.106	BJ	U
TEQ 1/2 DL		0.51			0.28			0.32			0.68			0.28			0.72			0.48		
TEQ 0 DL		0.50			0.26			0.30			0.67			0.23			0.71			0.46		
LIPID		1.04			1.19			1.37			1.19			1.14			1.36			0.75		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-6. (continued) Individual dioxin/furan congener concentrations for trawl samples.

Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

SF = starry flounder, E = English sole

Congener (pg/g)	TEF	BI-TRAWL2-			BI-TRAWL3-			BI-TRAWL3-			BI-TRAWL3-			BI-TRAWL3-					
		SF5	LQ	VQ	SF1	LQ	VQ	SF2	LQ	VQ	SF3	LQ	VQ	SF4	LQ	VQ	SF5	LQ	VQ
2,3,7,8-TCDD	1	0.0197	KJ	U	0.0197	KJ	U	0.0199	K	U	0.12			0.107	J		0.069	J	
1,2,3,7,8-PECDD	1	0.062	J		0.257	J		0.571			0.453	J		0.349	J		0.219	J	
1,2,3,4,7,8-HXCDD	0.1	0.0786	U		0.079	U		0.147	J		0.079	U		0.0788	U		0.0781	U	
1,2,3,6,7,8-HXCDD	0.1	0.17	J		0.759			1.88			1.27			0.878			0.59		
1,2,3,7,8,9-HXCDD	0.1	0.048	J		0.0351	KJ	U	0.242	J		0.172	J		0.118	J		0.0348	KJ	U
1,2,3,4,6,7,8-HPCDD	0.01	0.293	J		0.937			0.868			1.77			1.13			0.815		
OCDD	0.0003	0.697	J		1.16			1.19			3.71			3.93			1.41		
2,3,7,8-TCDF	0.1	0.227			1.03			0.738			0.441			0.561			0.31		
1,2,3,7,8-PECDF	0.03	0.0378	U		0.105	J		0.263	J		0.139	J		0.099	J		0.065	J	
2,3,4,7,8-PECDF	0.3	0.072	J		0.329	J		0.626			0.396	J		0.415	J		0.23	J	
1,2,3,4,7,8-HXCDF	0.1	0.056	J		0.153	J		0.566			0.316	J		0.301	J		0.232	J	
1,2,3,6,7,8-HXCDF	0.1	0.0338	U		0.07	J		0.197	J		0.17	J		0.093	J		0.08	J	
1,2,3,7,8,9-HXCDF	0.1	0.0366	U		0.0367	U		0.0369	U		0.0367	U		0.0367	U		0.0363	U	
2,3,4,6,7,8-HXCDF	0.1	0.0303	U		0.083	J		0.119	J		0.0304	KJ	U	0.078	J		0.0301	KJ	U
1,2,3,4,6,7,8-HPCDF	0.01	0.098	J		0.222	J		0.286	J		0.49	J		0.0505	KJ	U	0.182	J	
1,2,3,4,7,8,9-HPCDF	0.01	0.0421	U		0.0422	U		0.0425	U		0.0423	U		0.0422	U		0.0418	U	
OCDF	0.0003	0.0389	BJ	U	0.0391	KBJ	U	0.0393	BJ	U	0.312	BJ		0.039	KBJ	U	0.0387	KBJ	U
TEQ 1/2 DL		0.16			0.60			1.18			0.96			0.81			0.50		
TEQ 0 DL		0.14			0.58			1.17			0.96			0.80			0.49		
LIPID		2.13			1.22			1.01			0.76			0.75			0.71		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-6. (continued) Individual dioxin/furan congener concentrations for trawl samples.

Total TEQ are calculated using WHO 2005 TEF (Van den Berg et al. 2006).

SF = starry flounder, E = English sole

Congener (pg/g)	TEF	BI-TRAWL3-			BI-TRAWL3-			BI-TRAWL3-		
		E1	LQ	VQ	E2	LQ	VQ	E3	LQ	VQ
2,3,7,8-TCDD	1	0.0197	KJ	U	0.0199	KJ	U	0.088	J	
1,2,3,7,8-PECDD	1	0.441	J		0.395	J		0.418	J	
1,2,3,4,7,8-HxCDD	0.1	0.154	J		0.151	J		0.135	J	
1,2,3,6,7,8-HxCDD	0.1	0.969			0.761			0.783		
1,2,3,7,8,9-HxCDD	0.1	0.131	J		0.0353	KJ	U	0.114	J	
1,2,3,4,6,7,8-HPCDD	0.01	1.09			0.909			0.881		
OCDD	0.0003	3.92			3.01			3.28		
2,3,7,8-TCDF	0.1	0.798			0.902			0.703		
1,2,3,7,8-PECDF	0.03	0.148	J		0.128	J		0.124	J	
2,3,4,7,8-PECDF	0.3	0.663			0.524			0.525		
1,2,3,4,7,8-HxCDF	0.1	0.261	J		0.24	J		0.209	J	
1,2,3,6,7,8-HxCDF	0.1	0.104	J		0.075	J		0.076	J	
1,2,3,7,8,9-HxCDF	0.1	0.0366	U		0.0369	U		0.0365	U	
2,3,4,6,7,8-HxCDF	0.1	0.102	J		0.083	J		0.09	J	
1,2,3,4,6,7,8-HPCDF	0.01	0.328	J		0.248	J		0.266	J	
1,2,3,4,7,8,9-HPCDF	0.01	0.0421	KJ	U	0.0425	U		0.042	U	
OCDF	0.0003	0.8	BJ		0.33	BJ		0.365	BJ	
TEQ 1/2 DL		0.92			0.80			0.89		
TEQ 0 DL		0.91			0.79			0.89		
LIPID		0.79			1.09			0.74		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-7. SMS chemistry data for surface and subsurface sediment samples from Budd Inlet and Capitol Lake.

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-S1			BI-S4			BI-S5			BI-S7			BI-S9			BI-S11		
			4/11/2007	LQ	VQ	4/13/2007	LQ	VQ	4/12/2007	LQ	VQ	4/12/2007	LQ	VQ	4/13/2007	LQ	VQ	4/13/2007	LQ	VQ
Metals in mg/kg DW																				
Antimony	—	—	0.12	J		0.16	J		0.19	J		0.97	J		0.07	UJ		0.15	J	
Arsenic	57	93	5.65	J		7.28	J		7.8			10.1			3.82	J		7.02	J	
Cadmium	5.1	6.7	1.9			2.18			1.31			1.66			0.723			2.48		
Chromium	—	—	32.2	J		33.9	J		22.5			28.2			23	J		33.8	J	
Copper	390	390	64.2	J		77.5	J		38.1	J		58.2	J		27.7	J		70.4	J	
Lead	450	530	18.3			35.7			22.3			70.3			17.4			20.6		
Mercury	0.41	0.59	0.1			0.395			0.163			0.186			0.088			0.163		
Nickel	—	—	27.8	J		27.8	J		18.2			21.5			18.1	J		27.4	J	
Silver	6.1	6.1	0.46			1.43			0.415			0.496			0.3			0.6		
Zinc	410	960	84	J		115	J		71.5	J		95.1	J		52.1	J		113	J	
Butyltins (Porewater) ug/L																				
Tetra-n-butyltin	—	—				0.022	U											0.022	U	
Tri-n-butyltin	—	—				0.041	U											0.041	U	
Di-n-butyltin	—	—				0.0081	U											0.11		
n-Butyltin	—	—				0.011	U											0.11		
LPAH in mg/kg TOC																				
Naphthalene	99	170	0.17	J		0.23	J		0.91			0.25			0.99			0.09	J	
Acenaphthylene	66	66	0.30	J		0.43			0.28	J		0.13	J		0.34	J		0.16	J	
Acenaphthene	16	57	0.11	J		0.22	J		0.26	J		0.09	J		0.19	J		0.06	U	
Fluorene	23	79	0.18	J		0.31	J		0.34	J		0.12	J		0.24	J		0.10	U	
Phenanthrene	100	480	0.91			2.07			2.49			1.51			1.93			0.55		
Anthracene	220	1200	0.69			1.18			0.67			0.22			0.57	J		0.31		
2-Methylnaphthalene	38	64	0.12	J		0.15	J		0.22	J		0.08	J		0.19	J		0.07	U	
Total LPAH*	370	780	2.48	J		4.60	J		4.95	J		2.31	J		4.45	J		1.11	J	
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	3.69			7.21			4.66			2.16			3.60			2.02		
Pyrene	1000	1400	3.94			7.45			4.15			1.94			3.42			2.02		
Benzo(a)anthracene	110	270	1.40			3.61			1.66			0.64			1.18			0.66		
Chrysene	110	460	2.46			6.25			2.46			1.19			1.61			1.67		
Benzofluoranthenes*	230	450	3.67	J		7.81	J		3.94			1.52			2.73	J		1.96	J	
Benzo(a)pyrene	99	210	1.26			3.37			1.84			0.84			1.43			0.70		
Indeno(1,2,3-cd)pyrene	34	88	1.01			2.09			1.30			0.68			1.18			0.51		
Dibenz(a,h)anthracene	12	33	0.19	J		0.46			0.28	J		0.23			0.25	U		0.13	U	
Benzo(g,h,i)perylene	31	78	0.86			1.75			1.22			0.64			1.18			0.48		
Total HPAH*	960	5300	18.49	J		40.00			21.50	J		9.84			16.34			10.02		

Benzo(a)fluoranthenes = Sum of benzo(b)fluoranthene and benzo(k)fluoranthene Total PCBs = Sum of all Aroclors

Gray shading denotes SMS exceedance

LPAH = Sum of all LPAH except 2-methylnaphthalene. HPAH = Sum of all HPAH

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-S1			BI-S4			BI-S5			BI-S7			BI-S9			BI-S11		
			4/11/2007	LQ	VQ	4/13/2007	LQ	VQ	4/12/2007	LQ	VQ	4/12/2007	LQ	VQ	4/13/2007	LQ	VQ	4/13/2007	LQ	VQ
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.12	U		0.16	J		0.34	U		0.15	U		0.19	U		0.10	U	
1,4-Dichlorobenzene	3.1	9	0.14	U		0.53			0.34	U		0.15	U		0.22	U		0.12	U	
1,2-Dichlorobenzene	2.3	2.3	0.10	U		0.22	J		0.34	U		0.15	U		0.15	U		0.08	U	
1,2,4-Trichlorobenzene	0.81	1.8	0.11	U		0.15	J		0.34	U		0.15	U		0.17	U		0.09	U	
Hexachlorobenzene	0.38	2.3	0.16	U		0.16	U		0.34	U		0.15	U		0.24	U		0.13	U	
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.14	U		0.14	U		0.34	U		0.15	U		0.21	U		0.11	U	
Diethylphthalate	61	110	0.27	U		0.29	U		0.78			0.06	J		0.40	U		0.22	U	
Di-n-Butylphthalate	220	1700	0.24	J		0.21	J		2.56			0.98			0.30	U		0.20	J	
Butylbenzylphthalate	4.9	64	0.11	U		0.34	J		0.34	U		0.15	U		0.25	J		0.09	U	
bis(2-Ethylhexyl)phthalate	47	78	1.97	J		12.50			1.48	J		1.30	J		2.36	J		1.05	J	
Di-n-Octylphthalate	58	4500	0.09	U		0.09	U		0.34	U		0.15	U		0.14	U		0.07	U	
Phenols in ug/kg DW																				
Phenol	420	1200	38	J		13	J	U	32	J	U	59		U	7.4	J	U	11	J	U
2-Methylphenol	63	63	11	U		11	U		13	U		14	U		6.3	U		12	U	
4-Methylphenol	670	670	8.8	U		62			11	J		56			7.6	J		9.6	U	
2,4-Dimethylphenol	29	29	17	U		18	U		62	U		69	U		11	U		19	U	
Pentachlorophenol	360	690	26	U		27	U		130	U		140	U		16	U		29	U	
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	12.0	U		12.0	U		5.6	J		7.4	J		6.8	U		13.0	U	
Benzoic Acid (ug/kg DW)	650	650	290.0	U		310.0	U		250.0	U	R	280.0	U	R	180.0	U		320.0	U	
Dibenzofuran	15	58	0.13	J		0.18	J		0.19	J		0.09	J		0.19	J		0.08	U	
Hexachloroethane	—	—	0.17	U		0.17	U		0.34	U		0.15	U		0.25	U		0.13	U	
Hexachlorobutadiene	3.9	6.2	0.11	U		0.11	U		0.34	U		0.15	U		0.16	U		0.09	U	
N-Nitrosodiphenylamine	28	130	0.17	U		0.17	U		0.34	U		0.07	J		0.25	U		0.13	U	
Pesticides and PCBs in mg/kg TOC																				
Aroclor-1016	—	—	0.13	U		0.13	U		0.26	U		0.11	U		0.20	U		0.10	U	
Aroclor-1242	—	—	0.13	U		0.13	Ui		0.52	U		0.22	U		0.20	U		0.10	U	
Aroclor-1248	—	—	0.13	U		0.13	U		0.26	U		0.11	U		0.20	U		0.10	U	
Aroclor-1254	—	—	0.27	J		1.11			0.26	U		0.11	U		0.81			0.24	J	
Aroclor-1260	—	—	0.13	U		0.13	U		0.26	U		0.11	U		0.20	U		0.10	U	
Aroclor-1221	—	—	0.13	U		0.13	U		0.73			0.25			0.20	U		0.10	U	
Aroclor-1232	—	—	0.13	U		0.13	U		0.26	U		0.11	U		0.20	U		0.10	U	
Total PCBs*	12	65	0.27	J		1.11			0.73			0.25			0.81			0.24	J	

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

Gray shading denotes SMS exceedance

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-7. (continued) SMS chemistry data for surface (0-10 cm) sediment grabs from Budd Inlet and Capitol Lake.

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-S12			BI-S15			BI-S17			BI-S18			BI-S21			BI-S30		
			4/13/2007	LQ	VQ	4/14/2007	LQ	VQ	4/13/2007	LQ	VQ	4/14/2007	LQ	VQ	4/13/2007	LQ	VQ	6/15/2007	LQ	VQ
Metals in mg/kg DW																				
Antimony	—	—	0.08		UJ	0.05		J	0.13		J							0.17		J
Arsenic	57	93	6.2		J	3.6			7.16		J							5		
Cadmium	5.1	6.7	1.97			0.707			1.87									0.642		
Chromium	—	—	35		J	13			26.2		J							25.7		
Copper	390	390	67.4		J	12.4		J	36.1		J							34.3		J
Lead	450	530	24.4			5.47			13.7									39.9		
Mercury	0.41	0.59	0.172			0.06			0.119									0.108		
Nickel	—	—	26.1		J	13.1			20.9		J							23.8		
Silver	6.1	6.1	0.63			0.124			0.41									0.299		
Zinc	410	960	79.7		J	34		J	59.3		J							101		J
Butyltins (Porewater) ug/L																				
Tetra-n-butyltin	—	—																		
Tri-n-butyltin	—	—																		
Di-n-butyltin	—	—																		
n-Butyltin	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170	2.93			1.69			0.38		J	0.43		J	0.19		J	1.95		U
Acenaphthylene	66	66	0.60			0.34		J	0.15		J	0.16		J	0.17		J	0.66		JD
Acenaphthene	16	57	0.27		J	1.41		U	0.08		U	0.10		U	0.06		U	0.62		JD
Fluorene	23	79	0.42		J	1.41		U	0.13		U	0.17		U	0.11		U	0.74		JD
Phenanthrene	100	480	2.54			1.08		J	0.43			0.49		J	0.52			11.67		D
Anthracene	220	1200	1.49			0.49		J	0.23		J	0.25		J	0.30		J	2.22		D
2-Methylnaphthalene	38	64	0.36		J	1.41		U	0.09		U	0.13		J	0.09		J	1.95		U
Total LPAH*	370	780	8.60		J	3.61		J	1.19			1.47			1.27			15.91		JD
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	3.58			1.97			1.21			1.05			1.53			27.24		D
Pyrene	1000	1400	5.37			2.39			1.29			1.26			1.81			23.35		D
Benzo(a)anthracene	110	270	8.06			0.55		J	0.48			0.43		J	0.70			11.67		D
Chrysene	110	460	6.87			0.77		J	0.86			0.58			1.71			16.34		D
Benzo(a)fluoranthene*	230	450	18.51		J	1.66		J	1.21		J	1.17		J	2.07		J	34.63		D
Benzo(a)pyrene	99	210	10.15			0.73		J	0.48			0.55			0.76			15.56		D
Indeno(1,2,3-cd)pyrene	34	88	4.48			0.63		J	0.32		J	0.40		J	0.54			14.40		D
Dibenz(a,h)anthracene	12	33	1.07			1.41		U	0.16		U	0.22		U	0.14		U	5.06		D
Benzo(g,h,i)perylene	31	78	3.58			0.69		J	0.30		J	0.49		J	0.48			13.62		D
Total HPAH*	960	5300	61.67			9.41		J	6.16			5.94			9.60			161.87		D

Benzo(a)fluoranthenes = Sum of benzo(b)fluoranthene and benzo(k)fluoranthene Total PCBs = Sum of all Aroclors

Gray shading denotes SMS exceedance

LPAH = Sum of all LPAH except 2-methylnaphthalene.

HPAH = Sum of all HPAH

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-S12			BI-S15			BI-S17			BI-S18			BI-S21			BI-S30		
			4/13/2007	LQ	VQ	4/14/2007	LQ	VQ	4/13/2007	LQ	VQ	4/14/2007	LQ	VQ	4/13/2007	LQ	VQ	6/15/2007	LQ	VQ
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.14	U		1.41	U		0.12	U		0.16	U		0.10	U		1.95	U	
1,4-Dichlorobenzene	3.1	9	0.16	U		1.41	U		0.14	U		0.19	U		0.12	U		1.95	U	
1,2-Dichlorobenzene	2.3	2.3	0.11	U		1.41	U		0.10	U		0.13	U		0.08	U		1.95	U	
1,2,4-Trichlorobenzene	0.81	1.8	0.13	U		1.41	U		0.11	U		0.15	U		0.10	U		1.95	U	
Hexachlorobenzene	0.38	2.3	0.18	U		1.41	U		0.15	U		0.21	U		0.13	U		1.95	U	
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.16	U		1.41	U		0.13	U		0.18	U		0.11	U		1.95	U	
Diethylphthalate	61	110	0.33	U		1.41	U		0.26	U		0.37	U		0.24	U		1.95	U	
Di-n-Butylphthalate	220	1700	0.25	J		2.96			0.32	J		0.26	U		0.22	J		3.89	U	
Butylbenzylphthalate	4.9	64	0.13	U		1.41	U		0.11	U		0.15	U		0.10	U		1.95	U	
bis(2-Ethylhexyl)phthalate	47	78	1.13	J		2.25	J	U	0.43	J	U	0.55	J	U	0.44	J	U	24.12	D	
Di-n-Octylphthalate	58	4500	0.10	U		1.41	U		0.09	U		0.12	U		0.08	U		1.95	U	
Phenols in ug/kg DW																				
Phenol	420	1200	210			16	J	U	12	J	U	6.1	U		13	J	U	150	U	
2-Methylphenol	63	63	9.8	U		10	U		9.3	U		11	U		11	U		50	U	
4-Methylphenol	670	670	59			14			21			9.3	U		36			17	JD	
2,4-Dimethylphenol	29	29	16	U		50	U		15	U		18	U		18	U		250	U	
Pentachlorophenol	360	690	25	U		100	U		24	U		28	U		27	U		500	U	
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	11.0	U		10.0	U		11.0	U		12.0	U		12.0	U		50.0	U	
Benzoic Acid (ug/kg DW)	650	650	280.0	U		200.0	U	R	270.0	U		310.0	U		310.0	U		1000.0	U	
Dibenzofuran	15	58	0.30	J		1.41	U		0.10	U		0.13	U		0.08	U		1.95	U	
Hexachloroethane	—	—	0.19	U		1.41	U		0.16	U		0.22	U		0.14	U		1.95	U	
Hexachlorobutadiene	3.9	6.2	0.12	U		1.41	U		0.10	U		0.14	U		0.09	U		1.95	U	
N-Nitrosodiphenylamine	28	130	0.19	U		1.41	U		0.16	U		0.22	U		0.14	U		1.95	U	
Pesticides and PCBs in mg/kg TOC																				
Aroclor-1016	—	—	0.15	U		1.41	U		0.13	U		0.17	U		0.11	U		0.39	U	
Aroclor-1242	—	—	0.15	U		2.82	U		0.13	U		0.17	U		0.11	U		0.78	U	
Aroclor-1248	—	—	0.15	U		1.41	U		0.13	U		0.17	U		0.11	U		0.39	U	
Aroclor-1254	—	—	0.54			1.41	U		0.30	J		0.37	J		0.20	J		0.39	U	
Aroclor-1260	—	—	0.15	U		1.41	U		0.13	U		0.17	U		0.11	U		0.39	U	
Aroclor-1221	—	—	0.15	U		1.41	U		0.13	U		0.17	U		0.11	U		1.48		
Aroclor-1232	—	—	0.15	U		1.41	U		0.13	U		0.17	U		0.11	U		0.39	U	
Total PCBs*	12	65	0.54			2.82	U		0.30	J		0.37	J		0.20	J		1.48		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

Gray shading denotes SMS exceedance

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-7. (continued) SMS chemistry data for surface and subsurface sediment samples from Budd Inlet and Capitol Lake.

Station Number Collection Date	WA SMS	WA SMS	BI-S31			BI-S32			BI-S34			BI-C2			BI-C5			BI-C10		
	Chem Criteria	Max Chm Criteria	4/14/2007	LQ	VQ	4/14/2007	LQ	VQ	4/6/2007	LQ	VQ	4/12/2007	LQ	VQ	4/14/2007	LQ	VQ	4/13/2007	LQ	VQ
Metals in mg/kg DW																				
Antimony	—	—				0.13		J	0.06		UJ	0.13		J	0.13		UJ	0.13		J
Arsenic	57	93				6.74		J	1.34		J	6.23			6.59		J	6.22		J
Cadmium	5.1	6.7				2.32			0.07			1.54			2.45			2.11		
Chromium	—	—				36.3		J	11.6		J	25.3			34.8		J	35.7		J
Copper	390	390				51.1		J	10.2		J	41.3			60.3		J	65.2		J
Lead	450	530				52.8			5.38			16.3			21.2			26		
Mercury	0.41	0.59				0.187			0.014		B	0.159			0.101			0.154		
Nickel	—	—				24.6		J	16.5		J	20			28.2		J	26.4		J
Silver	6.1	6.1				0.52			0.03			0.51			0.59			0.61		
Zinc	410	960				133		J	116		J	63			101		J	88.7		J
Butyltins (Porewater) ug/L																				
Tetra-n-butyltin	—	—				0.022		U							0.022		U	0.022		U
Tri-n-butyltin	—	—				0.041		U							0.041		U	0.041		U
Di-n-butyltin	—	—				0.0081		U							0.026		JP	0.012		J
n-Butyltin	—	—				0.011		U							0.018		J	0.011		U
LPAH in mg/kg TOC																				
Naphthalene	99	170	0.56			1.52		D	0.28		U	0.44			0.32		J	0.62		U
Acenaphthylene	66	66	0.87			0.75		D	0.35		J	0.18		J	0.30		J	0.68		U
Acenaphthene	16	57	0.56			1.82		D	0.21		U	0.08		J	0.43		J	0.48		U
Fluorene	23	79	0.60			1.45		D	0.35		U	0.13		J	0.80			0.82		U
Phenanthrene	100	480	9.13			16.12		D	1.93			0.69			1.99			1.05		JD
Anthracene	220	1200	1.87			3.50		D	0.65		J	0.30			1.13			0.68		U
2-Methylnaphthalene	38	64	0.40		J	0.42		JD	0.26		U	0.11		J	0.30		J	0.57		U
Total LPAH*	370	780	13.97		J	25.58		JD	2.93		J	1.94		J	5.28		J	1.05		JD
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	16.67			32.71		D	5.61			1.35			6.71			4.53		D
Pyrene	1000	1400	12.70			28.04		D	4.74			1.62			6.28			4.53		D
Benzo(a)anthracene	110	270	3.49			11.45		D	1.93			0.59			2.38			1.30		JD
Chrysene	110	460	7.54			15.19		D	3.33			0.98			4.55			2.66		D
Benzo(a)fluoranthene*	230	450	8.06		J	22.90		D	5.25		J	1.30		J	4.05		J	2.66		D
Benzo(a)pyrene	99	210	2.66			11.92		D	2.28			0.60			1.67			1.33		JD
Indeno(1,2,3-cd)pyrene	34	88	1.59			7.94		D	1.93			0.46			1.04			0.96		JD
Dibenz(a,h)anthracene	12	33	0.36		J	1.80		D	0.46		U	0.11		U	0.21		J	1.05		U
Benzo(g,h,i)perylene	31	78	1.55			7.24		D	1.93			0.44			0.95			1.10		U
Total HPAH*	960	5300	54.61		J	139.18		D	27.00			7.35			27.83		J	17.99		JD

Benzo(a)fluoranthene = Sum of benzo(b)fluoranthene and benzo(k)fluoranthene

Total PCBs = Sum of all Aroclors

Gray shading denotes SMS exceedance

LPAH = Sum of all LPAH except 2-methylnaphthalene.

HPAH = Sum of all HPAH

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-S31			BI-S32			BI-S34			BI-C2			BI-C5			BI-C10		
			4/14/2007	LQ	VQ	4/14/2007	LQ	VQ	4/6/2007	LQ	VQ	4/12/2007	LQ	VQ	4/14/2007	LQ	VQ	4/13/2007	LQ	VQ
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.16	U		0.20	U		0.33	U		0.08	U		0.15	U		0.76	U	
1,4-Dichlorobenzene	3.1	9	0.19	U		0.23	U		0.40	U		0.09	U		0.17	U		0.91	U	
1,2-Dichlorobenzene	2.3	2.3	0.13	U		0.16	U		0.28	U		0.06	U		0.12	U		0.62	U	
1,2,4-Trichlorobenzene	0.81	1.8	0.15	U		0.18	U		0.32	U		0.07	U		0.14	U		0.71	U	
Hexachlorobenzene	0.38	2.3	0.21	U		0.26	U		0.44	U		0.10	U		0.19	U		0.99	U	
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	1.23			0.22	U		0.39	U		0.09	U		0.16	U		0.85	U	
Diethylphthalate	61	110	0.35	U		0.44	U		0.72	U		0.17	U		0.32	U		1.67	U	
Di-n-Butylphthalate	220	1700	0.35	J		0.77	D		0.54	U		0.15	J		0.32	J		1.25	U	
Butylbenzylphthalate	4.9	64	1.23			0.79	D		0.32	U		0.07	U		0.14	U		0.71	U	
bis(2-Ethylhexyl)phthalate	47	78	2.70	J		32.71	D		16.32			0.96	J		1.93	J		2.83	U	
Di-n-Octylphthalate	58	4500	0.12	U		0.15	U		0.26	U		0.06	U		0.11	U		0.57	U	
Phenols in ug/kg DW																				
Phenol	420	1200	4.7	U		17	JD	U	2.3	U		47			13	J	U	32	U	
2-Methylphenol	63	63	8.4	U		18	U		4	U		9.4	U		15	U		57	U	
4-Methylphenol	670	670	11	J		40	D		3.4	U		32			34			49	U	
2,4-Dimethylphenol	29	29	14	U		29	U		6.5	U		16	U		24	U		92	U	
Pentachlorophenol	360	690	21	U		45	U		10	U		24	U		36	U		150	U	
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	9.2	U		20.0	U		4.4	U		11.0	U		16.0	U		62.0	U	
Benzoic Acid (ug/kg DW)	650	650	240.0	U		500.0	U		120.0	U		270.0	U		410.0	U		1600.0	U	
Dibenzofuran	15	58	0.52			0.70	D		0.28	U		0.09	J		0.43	J		0.62	U	
Hexachloroethane	—	—	0.22	U		0.28	U		0.46	U		0.11	U		0.20	U		1.05	U	
Hexachlorobutadiene	3.9	6.2	0.14	U		0.17	U		0.30	U		0.07	U		0.13	U		0.68	U	
N-Nitrosodiphenylamine	28	130	0.22	U		0.28	U		0.46	U		0.11	U		0.20	U		1.05	U	
Pesticides and PCBs in mg/kg TOC																				
Aroclor-1016	—	—	0.17	U		0.11	U		0.35	U		0.08	U		0.16	U		0.16	U	
Aroclor-1242	—	—	0.17	U		0.11	U		0.35	U		0.08	U		0.16	U		0.16	U	
Aroclor-1248	—	—	0.17	U		0.11	U		0.35	U		0.08	U		0.16	U		0.16	U	
Aroclor-1254	—	—	0.23	J		6.31			0.35	U		0.25	J		0.16	U		0.42	J	
Aroclor-1260	—	—	0.17	U		0.11	U		0.35	U		0.08	U		0.16	U		0.16	U	
Aroclor-1221	—	—	0.17	U		0.11	U		0.35	U		0.08	U		0.16	U		0.16	U	
Aroclor-1232	—	—	0.17	U		0.11	U		0.35	U		0.08	U		0.16	U		0.16	U	
Total PCBs*	12	65	0.23	J		6.31			0.35	U		0.25	J		0.16	U		0.42	J	

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

Gray shading denotes SMS exceedance

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-7. (continued) SMS chemistry data for surface and subsurface sediment samples from Budd Inlet and Capitol Lake.

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-C13			BI-C14			BI-C18			CL-S5			BI-TISSUE1- SEDIMENT			BI-TISSUE1B- SEDIMENT		
			4/13/2007	LQ	VQ	4/13/2007	LQ	VQ	4/12/2007	LQ	VQ	4/13/2007	LQ	VQ	4/6/2007	LQ	VQ	4/6/2007	LQ	VQ
Metals in mg/kg DW																				
Antimony	—	—				0.1		UJ	0.08		UJ	0.13		J	0.08		UJ	0.21		J
Arsenic	57	93				4.97		J	4.42		J	2.76		J	2.59		J	4.44		J
Cadmium	5.1	6.7				1.71		J	0.729			0.194			0.72			1.16		
Chromium	—	—				26.9			21.1		J	27.7		J	20.4		J	24.2		J
Copper	390	390				45.9		J	27.2		J	44.5		J	16.8		J	41.4		J
Lead	450	530				13.4			17.5			10			34.6			52.7		
Mercury	0.41	0.59				0.087			0.071			0.064		J	0.092			0.314		
Nickel	—	—				22.8		J	17.8		J	24.6		J	16.4		J	19		J
Silver	6.1	6.1				0.45			0.29			0.11			0.11			0.21		
Zinc	410	960				72.8		J	48.9		J	58.9		J	260		J	182		J
Butyltins (Porewater) ug/L																				
Tetra-n-butyltin	—	—																		
Tri-n-butyltin	—	—																		
Di-n-butyltin	—	—																		
n-Butyltin	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170	12.44	D		0.48		U	0.57		JD	0.62		U	2.60			1.00		D
Acenaphthylene	66	66	0.62	JD		0.52		U	0.57		U	0.68		U	1.10			0.64		JD
Acenaphthene	16	57	2.59	D		1.74		JD	0.39		U	0.47		U	8.44			3.61		D
Fluorene	23	79	2.07	D		0.76		JD	0.70		U	0.80		U	7.14			2.41		D
Phenanthrene	100	480	6.22	D		13.29		D	1.60		JD	0.62		U	70.13			24.05		D
Anthracene	220	1200	3.99	D		1.57		JD	0.57		U	0.68		U	18.18			6.70		D
2-Methylnaphthalene	38	64	1.50	D		0.46		U	0.49		U	0.56		U	1.04			0.48		JD
Total LPAH*	370	780	29.43	JD		17.36		JD	2.17		JD	0.80		U	108.64			38.88		JD
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	11.92	D		15.69		D	3.85		D	1.04		JD	119.48		D	37.80		D
Pyrene	1000	1400	14.51	D		14.38		D	3.44		D	1.01		JD	107.79		D	36.08		D
Benzo(a)anthracene	110	270	3.73	D		4.36		D	1.35		JD	0.68		U	63.64			18.90		D
Chrysene	110	460	7.25	D		5.23		D	1.52		JD	0.77		JD	71.43			20.62		D
Benzo(a)fluoranthene*	230	450	6.79	D	J	5.49		JD	3.81		JD	1.19		U	105.19		J	30.76		D
Benzo(a)pyrene	99	210	3.01	D		1.94		D	1.68		JD	0.77		U	62.34			18.90		D
Indeno(1,2,3-cd)pyrene	34	88	1.87	D		1.07		JD	1.60		JD	0.92		U	40.26			12.37		D
Dibenz(a,h)anthracene	12	33	0.48	JD		0.83		U	0.86		U	1.04		U	9.48			2.75		D
Benzo(g,h,i)perylene	31	78	1.76	D		1.07		JD	1.64		JD	1.10		U	37.66			11.68		D
Total HPAH*	960	5300	51.31	JD		49.22		JD	18.89		JD	2.82		JD	617.27		D	189.86		D

Benzo(a)fluoranthenes = Sum of benzo(b)fluoranthene and benzo(k)fluoranthene Total PCBs = Sum of all Aroclors

Gray shading denotes SMS exceedance

LPAH = Sum of all LPAH except 2-methylnaphthalene.

HPAH = Sum of all HPAH

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-C13			BI-C14			BI-C18			CL-S5			BI-TISSUE1- SEDIMENT			BI-TISSUE1B- SEDIMENT		
			4/13/2007	LQ	VQ	4/13/2007	LQ	VQ	4/12/2007	LQ	VQ	4/13/2007	LQ	VQ	4/6/2007	LQ	VQ	4/6/2007	LQ	VQ
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.28	U		0.61	U		0.66	U		0.77	U		0.29	U		0.27	U	
1,4-Dichlorobenzene	3.1	9	0.34	U		0.72	U		0.78	U		0.92	U		0.34	U		0.31	U	
1,2-Dichlorobenzene	2.3	2.3	0.23	U		0.48	U		0.53	U		0.62	U		0.23	U		0.22	U	
1,2,4-Trichlorobenzene	0.81	1.8	0.26	U		0.57	U		0.61	U		0.71	U		0.27	U		0.26	U	
Hexachlorobenzene	0.38	2.3	0.37	U		0.78	U		0.82	U		1.01	U		0.38	U		0.34	U	
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.32	U		0.68	U		0.74	U		0.86	U		0.32	U		0.29	U	
Diethylphthalate	61	110	0.62	U		1.31	U		1.39	U		1.66	U		0.62	U		0.58	U	
Di-n-Butylphthalate	220	1700	0.46	U		0.96	U		1.02	U		1.25	U		2.08			1.62	D	
Butylbenzylphthalate	4.9	64	0.26	U		0.57	U		0.61	U		0.71	U		5.45			0.98	D	
bis(2-Ethylhexyl)phthalate	47	78	0.83	JD		2.00	JD		3.65	JD		1.45	JD		181.82	D		56.70	D	
Di-n-Octylphthalate	58	4500	0.21	U		0.46	U		0.49	U		0.56	U		0.22	U		0.21	U	
Phenols in ug/kg DW																				
Phenol	420	1200	6.5	U		44	JD	U	140	JD		31	U		11	J	U	39	JD	U
2-Methylphenol	63	63	12	U		58	U		33	U		54	U		4.7	U		33	U	
4-Methylphenol	670	670	40	D		49	U		28	U		46	U		7.1			73	D	
2,4-Dimethylphenol	29	29	19	U		93	U		53	U		88	U		7.5	U		52	U	
Pentachlorophenol	360	690	29	U		150	U		81	U		140	U		12	U		81	U	
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	13.0	U		63.0	U		36.0	U		1.75	U		0.66	U		0.60	U	
Benzoic Acid (ug/kg DW)	650	650	330.0	U		1700.0	U		920.0	U		47.48	U		18.18	U		15.64	U	
Dibenzofuran	15	58	1.61	D		0.48	U		0.53	U		0.62	U		3.12			1.07	D	
Hexachloroethane	—	—	0.39	U		0.83	U		0.86	U		1.04	U		0.39	U		0.36	U	
Hexachlorobutadiene	3.9	6.2	0.25	U		0.52	U		0.57	U		0.68	U		0.25	U		0.24	U	
N-Nitrosodiphenylamine	28	130	0.39	U		0.83	U		0.86	U		1.04	U		0.39	U		0.36	U	
Pesticides and PCBs in mg/kg TOC																				
Aroclor-1016	—	—	0.15	U		0.13	U		0.14	U		0.16	U		0.31	U		0.06	U	
Aroclor-1242	—	—	0.15	U		0.13	U		0.14	U		0.16	U		0.31	U		0.06	U	
Aroclor-1248	—	—	0.15	U		0.13	U		0.14	U		0.16	U		0.31	U		0.06	U	
Aroclor-1254	—	—	0.49			0.19	J		0.49			0.25	J		1.95			2.06		
Aroclor-1260	—	—	0.15	U		0.13	U		0.14	U		0.16	U		0.31	U		0.06	U	
Aroclor-1221	—	—	0.15	U		0.13	U		0.14	U		0.16	U		0.31	U		0.06	U	
Aroclor-1232	—	—	0.15	U		0.13	U		0.14	U		0.16	U		0.31	U		0.06	U	
Total PCBs*	12	65	0.49			0.19	J		0.49			0.25	J		1.95			2.06		

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

Gray shading denotes SMS exceedance

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.

Table B-7. (continued) SMS chemistry data for surface and subsurface sediment samples from Budd Inlet and Capitol Lake.

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-TISSUE2- SEDIMENT			BI-TISSUE3- SEDIMENT			BI-C4-0-1FT			BI-C4-6-7 FT			BI-C5-3-4 FT			BI-C5-6-7FT			
			4/6/2007	LQ	VQ	4/6/2007	LQ	VQ	4/2/2007	LQ	VQ	4/4/2007	LQ	VQ	4/3/2007	LQ	VQ	4/3/2007	LQ	VQ	
Metals in mg/kg DW																					
Antimony	—	—	0.09		UJ	0.06		UJ	0.14		UJ	0.27		J	0.33		J	0.24		J	
Arsenic	57	93	4.05		J	3.26		J	5.56		J	10.5		J	6.09		J	7.9			
Cadmium	5.1	6.7	0.482			0.762			2.06			2.12			2.22			2.58			
Chromium	—	—	29.1		J	19.6		J	31.8		J	24.8			31.6			36.8			
Copper	390	390	17.1		J	15.1		J	61.7		J	63.1		J	72.1		J	74.2		J	
Lead	450	530	7.83			5.04			21.6			57.2			63.5			59.3			
Mercury	0.41	0.59	0.037			0.057			0.109			0.39			0.322			0.91			
Nickel	—	—	23.3		J	15.5		J	26.7		J	23.2			26.9			29.2			
Silver	6.1	6.1	0.1			0.18			0.65			0.78			1.47			1.52			
Zinc	410	960	39.5		J	37.2		J	89.4		J	128		J	169		J	131		J	
Butyltins (Porewater) ug/L																					
Tetra-n-butyltin	—	—																			
Tri-n-butyltin	—	—																			
Di-n-butyltin	—	—																			
n-Butyltin	—	—																			
LPAH in mg/kg TOC																					
Naphthalene	99	170	1.25			6.76			0.71		U	19.14		D	1.70		D	5.69		D	
Acenaphthylene	66	66	1.82			0.54			0.76		U	3.23		D	1.70		D	2.38		D	
Acenaphthene	16	57	0.43		J	1.55			0.53		U	15.90		D	J	7.52		D	J	26.46	D
Fluorene	23	79	2.16			1.08			0.91		U	16.71		D	2.67		D	22.49		D	
Phenanthrene	100	480	20.45			3.85			2.54		JD	78.17		D	7.65		D	82.01		D	
Anthracene	220	1200	12.50			1.76			1.70		JD	29.65		D	9.95		D	39.68		D	
2-Methylnaphthalene	38	64	0.20		J	0.95			0.66		U	4.85		D	1.58		U	3.97		D	
Total LPAH*	370	780	38.82		J	16.49			4.24		JD	162.80		D	31.19		D	178.70		D	
HPAH in mg/kg TOC																					
Fluoranthene	160	1200	30.68			5.81			1.19		D	88.95		D	69.17		D	108.47		D	
Pyrene	1000	1400	29.55			8.11			0.71		D	80.86		D	48.54		D	85.98		D	
Benzo(a)anthracene	110	270	14.77			1.49			2.79		D	32.35		D	21.84		D	39.68		D	
Chrysene	110	460	15.91			2.23			4.31		D	40.43		D	29.13		D	43.65		D	
Benzo(a)fluoranthene*	230	450	17.73		J	2.91		J	3.81		D	48.25		D	31.92		D	46.30		D	
Benzo(a)pyrene	99	210	13.64			1.35			2.46		JD	32.35		D	16.99		D	34.39		D	
Indeno(1,2,3-cd)pyrene	34	88	7.39			1.01			1.52		JD	19.14		D	7.65		D	18.52		D	
Dibenz(a,h)anthracene	12	33	1.70			0.23		U	1.19		U	7.28		D	J	2.79		D	J	8.07	D
Benzo(g,h,i)perylene	31	78	6.02			1.08			1.47		JD	16.44		D	6.07		D	15.87		D	
Total HPAH*	960	5300	137.39			23.99			18.27		JD	366.04		D	234.10		D	400.93		D	

Benzo(a)fluoranthene = Sum of benzo(b)fluoranthene and benzo(k)fluoranthene

Total PCBs = Sum of all Aroclors

Gray shading denotes SMS exceedance

LPAH = Sum of all LPAH except 2-methylnaphthalene.

HPAH = Sum of all HPAH

Station Number Collection Date	WA SMS Chem Criteria	WA SMS Max Chm Criteria	BI-TISSUE2- SEDIMENT			BI-TISSUE3- SEDIMENT			BI-C4-0-1FT			BI-C4-6-7 FT			BI-C5-3-4 FT			BI-C5-6-7FT		
			4/6/2007	LQ	VQ	4/6/2007	LQ	VQ	4/2/2007	LQ	VQ	4/4/2007	LQ	VQ	4/3/2007	LQ	VQ	4/3/2007	LQ	VQ
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.25	U		0.17	U		0.86	U		1.35	U	UJ	1.58	U	UJ	1.85	U	
1,4-Dichlorobenzene	3.1	9	0.30	U		0.20	U		1.02	U		1.35	U	UJ	1.58	U	UJ	1.85	U	
1,2-Dichlorobenzene	2.3	2.3	0.20	U		0.14	U		0.71	U		1.35	U	UJ	1.58	U	UJ	1.85	U	
1,2,4-Trichlorobenzene	0.81	1.8	0.24	U		0.16	U		0.81	U		1.35	U		1.58	U		1.85	U	
Hexachlorobenzene	0.38	2.3	0.33	U		0.22	U		1.12	U		1.35	U		1.58	U		1.85	U	
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.28	U		0.19	U		0.96	U		1.35	U		1.58	U		1.85	U	
Diethylphthalate	61	110	0.55	U		0.36	U		1.88	U		1.35	U		1.58	U		1.85	U	
Di-n-Butylphthalate	220	1700	0.41	U		0.27	U		1.40	U		2.70	U		3.03	U		3.70	U	
Butylbenzylphthalate	4.9	64	0.24	U		0.16	U		0.81	U		1.35	U		1.58	U		1.85	U	
bis(2-Ethylhexyl)phthalate	47	78	0.74	J	U	0.88	J	U	1.62	JD		13.48	U		15.78	U		18.52	U	
Di-n-Octylphthalate	58	4500	0.19	U		0.13	U		0.66	U		1.35	U		1.58	U		1.85	U	
Phenols in ug/kg DW																				
Phenol	420	1200	9.8	J	U	11	J	U	40	U		150	U		380	U		410	U	
2-Methylphenol	63	63	4.7	U		5.2	U		72	U		50	U		130	U		140	U	
4-Methylphenol	670	670	5	J		28			79	JD		120	D		87	JD		340	D	
2,4-Dimethylphenol	29	29	7.5	U		8.4	U		120	U		250	U	R	630	U	R	680	U	
Pentachlorophenol	360	690	12	U		13	U		180	U		500	U		1300	U		1400	U	
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	0.58	U		0.39	U		1.98	U		1.35	U		1.58	U		1.85	U	
Benzoic Acid (ug/kg DW)	650	650	15.91	U		10.14	U		53.30	U		26.95	U		30.34	U		37.04	U	R
Dibenzofuran	15	58	0.41	J		0.68			0.71	U		7.01	D		0.95	JD		6.88	D	
Hexachloroethane	—	—	0.34	U		0.23	U		1.19	U		1.35	U	R	1.58	U	R	1.85	U	
Hexachlorobutadiene	3.9	6.2	0.23	U		0.15	U		0.76	U		1.35	U		1.58	U		1.85	U	
N-Nitrosodiphenylamine	28	130	0.34	U		0.23	U		1.19	U		1.35	U		1.58	U		1.85	U	
Pesticides and PCBs in mg/kg TOC																				
Aroclor-1016	—	—	0.27	U		0.18	U		0.18	U		0.27	U		0.12	U		0.13	U	
Aroclor-1242	—	—	0.27	U		0.18	U		0.18	U		0.27	U		0.12	U		0.26	U	
Aroclor-1248	—	—	0.27	U		0.18	U		0.18	U		0.27	U		4.25			0.13	U	
Aroclor-1254	—	—	0.27	U		0.38	J		0.33	J		1.64			2.91			0.13	U	
Aroclor-1260	—	—	0.27	U		0.18	U		0.18	U		1.21			0.12	U		0.13	U	
Aroclor-1221	—	—	0.27	U		0.18	U		0.18	U		0.54	U		0.24	U		1.30	Ui	
Aroclor-1232	—	—	0.27	U		0.18	U		0.18	U		0.27	U		0.12	U		0.13	U	
Total PCBs*	12	65	0.27	U		0.38	J		0.33	J		2.86			7.16			1.30	Ui	

B - The analyte was found in the associated method blank at a level that is significant relative to the sample result.

Gray shading denotes SMS exceedance

D - The reported result is from a dilution. U - The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.

J - The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL. i - the MRL/MDL is elevated due to matrix or chromatographic interference.

K - Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.