

Location ID		DIS-01-S	Q	DIS-02-S	Q	DIS-03-S	Q	DIS-04-S	Q	DIS-05-S	Q	DIS-06-S	Q	DIS-07-S	Q	DIS-08-S	Q	DIS-09-S	Q	DIS-09-D	Q
Date/Time		3/28/2013	15:48	5/8/2013	15:29	5/8/2013	13:57	5/7/2013	13:42	5/8/2013	15:54	5/7/2013	15:30	5/8/2013	11:47	5/7/2013	14:29	5/7/2013	16:40	5/7/2013	16:40
<b>Conventionals</b>																					
Total Organic Carbon		3.02	J	1.94	J	0.733	J	2.32		1.97	J	3.8		8.29	J	2.1		1.19		1.05	
Total Solids		20.93		25.9		76.01		45.56		47.4		28.93		28.38		70.34		54.27		54.3	
Total Volatile Solids		10.42		8.82		1.31		5.58		5.13		9.5		8.8		2.07		4.7		4.59	
Preserved Total Solids		20.52		21.08		72.37		39.83		36.98		21.81		22.41		59.68		45.68		64.83	
Sulfide		1100		2420		1.54		2.43	U	68.9		1400		1490		30.9		10.5	J	32.6	J
Particle/Grain Size, Phi Scale <-1	Gravel	0.2		0.1	U	0.1		0.1	U	5.6		0.1	U	0.2		1.2		0.1		0.1	
Particle/Grain Size, Phi Scale -1 to 0	Very Coarse Sand	2.1		0.1		1.4		0.5		0.2		1		1.5		2		0.3		0.5	
Particle/Grain Size, Phi Scale 0 to 1	Coarse Sand	1.6		0.3		8.9		1		0.7		1.5		1.4		11.3		0.6		0.9	
Particle/Grain Size, Phi Scale 1 to 2	Medium Sand	0.9		1.7		27.6		1.3		1.6		1.3		1		36.8		0.8		0.7	
Particle/Grain Size, Phi Scale 2 to 3	Fine Sand	0.9		0.9		42.2		1.1		4.7		0.6		0.6		25.1		2.7		2.9	
Particle/Grain Size, Phi Scale 3 to 4	Very Fine Sand	1.4		0.8		13.9		7		9.1		0.6		0.8		3.2		16.1		16.1	
Particle/Grain Size, Phi Scale 4 to 5	Coarse Silt	6.2		4.2		0.5		27		16.5		2.3		8.4		2.7		27.3		27.3	
Particle/Grain Size, Phi Scale 5 to 6	Medium Silt	19.8		21		0.5		17.2		18.9		15.9		17.8		4		15.4		16	
Particle/Grain Size, Phi Scale 6 to 7	Fine Silt	17.5		18.9		0.8		12.3		12.3		19		17.9		3.4		9.7		8.8	
Particle/Grain Size, Phi Scale 7 to 8	Very Fine Silt	14.3		16.4		0.9		8.6		8.4		17.7		16.1		2.9		6.2		5.9	
Particle/Grain Size, Phi Scale 8 to 9	Medium Clay	8.7		10		0.8		5.9		5.6		12.8		10.6		2.1		4.6		4.9	
Particle/Grain Size, Phi Scale 9 to 10	Fine Clay	6.9		8.7		0.8		5.5		5.4		8.9		8.6		1.7		4.6		4.5	
Particle/Grain Size, Phi Scale >10	Very Fine Clay	19.4		17		1.6		12.5		11		18.5		15		3.6		11.7		11.2	
Particle/Grain Size, Fines (Silt/Clay)		92.9		96.2		5.9		89		78		95.1		94.5		20.4		79.5		78.7	
<b>Metals (mg/kg DW)</b>																					
Arsenic		11.8		10.1		2.2		5.6		6.5		14.2		13.5		2.3		4.7		4.4	
Cadmium		2.6		1		0.15		0.38		0.45		1.9		1.3		0.13	U	0.28		0.27	
Mercury		0.1		0.09		0.03	U	0.35	J	0.09		0.14	J	0.12		0.03	UJ	0.07	J	0.07	J
<b>carcinogenic PAH (ug/kg DW)</b>																					
Benzo(a)anthracene	0.1	18.8		12.6		1.24		12.1		12.7		20.5		15.3		2.78		10.9		10.6	
Chrysene	0.01	28		21.3		1.86		21.4		19.5		31.8		25.2		4.52		18.1		27.3	
Benzo(b)fluoranthene	0.1	27.3		16.8		1.74		16.1		14.6		28.5		21		4.11		13.1		13.9	
Benzo(k)fluoranthene	0.1	10.8		7.13		0.93		7.58		6.49		14.7		10		1.58		5.43		5.2	
Total Benzofluoranthenes		49.2		30.7		3.41		30.1		27.3		55.4		39.3		7.3		23.9		24.2	
Benzo(a)pyrene	1	21.8		12.9		1.44		12.2		12.7		23.6		15.5		2.87		10.7		9.26	
Indeno(1,2,3-cd)pyrene	0.1	15.7		9.82		0.96		8.8		9.11		18.7		11.5		2.29		6.74		6.25	
Dibenz(a,h)anthracene	0.1	3.37		2.51		0.27	J	2.27		2.4		3.96		2.88		0.54		1.95		1.86	
cPAH TEQ (0 DL)		29.7		18		1.97		17.1		17.4		32.6		21.8		4.05		14.7		13.3	
cPAH TEQ (1/2 DL)		29.7		18		1.97		17.1		17.4		32.6		21.8		4.05		14.7		13.3	
cPAH TEQ (1 DL)		29.7		18		1.97		17.1		17.4		32.6		21.8		4.05		14.7		13.3	

\* Insufficient fines were present for the full determination of silt and clay fractions. Only total fines are reported.

U-the analyte was analyzed for, but was not detected above the reported sample quantitation limit

J-the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample

UJ-the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

DW-dry weight Q-qualifier TEQ-toxicity equivalent DL-detection limit

Results for Cd were taken from laboratory data sheets for the additional significant figure.

Location ID	DIS-09-T	Q	DIS-10-S	Q	DIS-11-S	Q	DIS-12-S	Q	DIS-13-S	Q	DIS-14-S	Q	DIS-15-S	Q	DIS-16-S	Q	DIS-17-S	Q	DIS-18-S	Q	DIS-19-S	Q
Date/Time	5/7/2013	16:40	5/8/2013	11:27	5/7/2013	14:07	5/8/2013	14:35	5/8/2013	13:29	5/8/2013	9:56	5/8/2013	10:18	5/8/2013	16:41	5/8/2013	16:13	5/8/2013	10:36	5/8/2013	15:02
<b>Conventionals</b>																						
Total Organic Carbon	1.76		5.79	J	2.29		2.49	J	--		--		--		--		--		--		--	
Total Solids	55.39		26.75		38.05		73.28		--		--		--		--		--		--		--	
Total Volatile Solids	4.73		8.41		6.98		2.01		--		--		--		--		--		--		--	
Preserved Total Solids	45.04		20.99		36.46		68.88		55.89		46.69		39.99		39.06		29.31		42.07		73.97	
Sulfide	7.22	J	1690		219		1.4	U	73.7		37.8		2.48	U	180		304		9.56		1.34	U
Particle/Grain Size, Phi Scale <-1	0.1		0.4		0.1		1.6		7.3		0.1	U	0.1	U	0.6		0.1		0.3		1	
Particle/Grain Size, Phi Scale -1 to 0	0.4		0.1		1.5		5		0.8		0.2		0.3		6.3		9		0.2		5.2	
Particle/Grain Size, Phi Scale 0 to 1	0.6		0.3		1.9		13		4.4		0.4		0.4		3.5		3.5		0.5		15.1	
Particle/Grain Size, Phi Scale 1 to 2	0.5		1.1		0.9		32.3		21		0.5		0.4		2.3		2.7		2		30.3	
Particle/Grain Size, Phi Scale 2 to 3	2.7		0.7		1.2		28		42.9		4.6		0.8		1.7		1.5		4.3		29.8	
Particle/Grain Size, Phi Scale 3 to 4	16.2		1.1		4		8.6		11.3		17.9		9		4.1		2.2		9.7		12.1	
Particle/Grain Size, Phi Scale 4 to 5	27.1		7.8		14.1		0.9		0.3		25.3		27.4		14.2		8.8		24.7		1.8	
Particle/Grain Size, Phi Scale 5 to 6	16.3		24.7		22.7		1.6		2.1		17.2		19.3		19.1		17.8		17.2		0.8	
Particle/Grain Size, Phi Scale 6 to 7	9.5		18.2		15.3		1.9		2.2		7.7		11.1		14.5		16.1		11.4		0.7	
Particle/Grain Size, Phi Scale 7 to 8	5.7		14.3		12.1		1.8		2.3		5.5		7.1		9.6		11.3		7.2		0.7	
Particle/Grain Size, Phi Scale 8 to 9	4.1		9.3		6.1		1.5		1.7		5.1		6.4		6.3		7.7		5.6		0.6	
Particle/Grain Size, Phi Scale 9 to 10	5.1		7		6.5		1.2		1.5		4.5		5.6		5.7		6.4		5.1		0.5	
Particle/Grain Size, Phi Scale >10	11.8		15		13.5		2.4		2.3		11.1		12.2		12		13		11.7		1.4	
Particle/Grain Size, Fines (Silt/Clay)	79.5		96.2		90.3		11.4		12.4		76.4		89.1		81.4		81.1		82.9		6.5	
<b>Metals (mg/kg DW)</b>																						
Arsenic	--		8.3		7.2		3.2		--		--		--		--		--		--		--	
Cadmium	--		0.72		0.57		0.15		--		--		--		--		--		--		--	
Mercury	--		0.11		0.09	J	0.03	U	0.03		0.05		0.08		0.1		0.12		0.07		0.02	U
<b>carcinogenic PAH (ug/kg DW)</b>																						
Benzo(a)anthracene	--		11.5		11.9		1.96		--		--		--		--		--		--		--	
Chrysene	--		19.6		20.4		3.13		--		--		--		--		--		--		--	
Benzo(b)fluoranthene	--		16		16.2		2.98		--		--		--		--		--		--		--	
Benzo(k)fluoranthene	--		7.33		7.37		1.13		--		--		--		--		--		--		--	
Total Benzofluoranthenes	--		29.4		29.8		5.27		--		--		--		--		--		--		--	
Benzo(a)pyrene	--		11.9		12.1		2.08		--		--		--		--		--		--		--	
Indeno(1,2,3-cd)pyrene	--		8.26		8.7		1.77		--		--		--		--		--		--		--	
Dibenz(a,h)anthracene	--		2.12		2.2		0.41	J	--		--		--		--		--		--		--	
cPAH TEQ (0 DL)	--		16.6		16.9		2.94		--		--		--		--		--		--		--	
cPAH TEQ (1/2 DL)	--		16.6		16.9		2.94		--		--		--		--		--		--		--	
cPAH TEQ (1 DL)	--		16.6		16.9		2.94		--		--		--		--		--		--		--	

\* Insufficient fines were present for the full analysis.   
 U-the analyte was analyzed for, but was not detected above the reporting limit.   
 J-the analyte was positively identified; the reporting limit is not applicable.   
 UJ-the analyte was not detected above the reporting limit.   
 DW-dry weight Q-qualifier TEQ-toxicity equivalent   
 Results for Cd were taken from laboratory

Location ID	DIS-20-S	Q	DUN-01-S	Q	DUN-02-S	Q	DUN-03-S	Q	DUN-04-S	Q	DUN-05-S	Q	DUN-05-D	Q	DUN-05-T	Q	DUN-06-S	Q	DUN-07-S	Q	DUN-08-S	Q
Date/Time	5/8/2013	14:15	5/6/2013	16:13	5/6/2013	15:09	5/6/2013	10:09	5/6/2013	14:46	5/6/2013	13:46	5/6/2013	13:45	5/6/2013	13:46	5/6/2013	10:50	5/6/2013	11:10	5/6/2013	16:38
<b>Conventionals</b>																						
Total Organic Carbon	--		1.98		0.603		0.875		1.08		0.802		0.887		0.721		1.06		0.611		0.835	
Total Solids	--		58		73.76		73.44		64.09		65.11		64.33		64.1		66.75		78.35		70.12	
Total Volatile Solids	--		3.86		1.76		1.76		3.19		2.86		2.86		3.24		2.98		1.08		1.73	
Preserved Total Solids	21.4		47.58		75.34		72.84		64.15		64.06		62.38		60.19		60.75		76.91		66.03	
Sulfide	1480		2.54		6.22		2.6		8.52		2.73		1.82		1.61 U		1.63 U		1.19 U		5.53	
Particle/Grain Size, Phi Scale <-1	0.1	U	0.6		7.7		0.1		0.9		0.3		0.2		0.3		0.1		18.6		1	
Particle/Grain Size, Phi Scale -1 to 0	1		0.6		6.9		1.5		1.3		0.4		0.3		0.4		0.2		4.7		0.7	
Particle/Grain Size, Phi Scale 0 to 1	1		1.6		20.4		12.2		3.1		0.5		0.6		0.6		0.6		21.1		1.5	
Particle/Grain Size, Phi Scale 1 to 2	0.7		2.3		43.6		40.5		6.5		2.2		1.8		1.7		1.6		41.4		13.7	
Particle/Grain Size, Phi Scale 2 to 3	0.7		22.2		15.9		35.5		20.1		27.9		29.1		27.5		29		9.4		62.5	
Particle/Grain Size, Phi Scale 3 to 4	1		14.9		1.6		4.1		30		36.5		35.6		35.9		31.3		2.1		6.9	
Particle/Grain Size, Phi Scale 4 to 5	6.2		14.9		-- U		1.5		9.9		10.2		10.3		10.3		12.9		-- U		2.9	
Particle/Grain Size, Phi Scale 5 to 6	17.3		13.7		-- U		1		6.8		5.1		5.7		5.5		5.9		-- U		3	
Particle/Grain Size, Phi Scale 6 to 7	20.2		7.4		-- U		0.7		4.6		3.4		3.2		3.5		4		-- U		1.9	
Particle/Grain Size, Phi Scale 7 to 8	16.4		4.9		-- U		0.6		3.6		3		2.9		3.2		2.9		-- U		1.3	
Particle/Grain Size, Phi Scale 8 to 9	10.2		3.9		-- U		0.5		2.8		2.4		2.3		2.5		2.4		-- U		1	
Particle/Grain Size, Phi Scale 9 to 10	8.3		3.8		-- U		0.5		2.9		2.4		2.5		2.5		2.7		-- U		1.1	
Particle/Grain Size, Phi Scale >10	16.8		9.1		-- U		1.3		7.5		5.6		5.5		6		6.2		-- U		2.5	
Particle/Grain Size, Fines (Silt/Clay)	95.5		57.8		4 *		6.1		38.1		32.1		32.3		33.5		37.1		2.8 *		13.7	
<b>Metals (mg/kg DW)</b>																						
Arsenic	--		4.2		2.7		2.4		5		2.9		3		--		4.3		3.1		2.6	
Cadmium	--		0.2		0.12 U		0.13 U		0.15 U		0.14 U		0.14 U		--		0.16		0.13 U		0.14 U	
Mercury	0.12		0.06		0.03		0.03 U		0.04		0.04		0.04		--		0.05		0.02 U		0.03 U	
<b>carcinogenic PAH (ug/kg DW)</b>																						
Benzo(a)anthracene	--		7.12		0.32 J		0.43 J		4.8		3.32		3.36		--		3.04		0.197 U		2.44	
Chrysene	--		13.9		0.82		1.11		9.33		8.49		8.42		--		6.74		0.83		4.42	
Benzo(b)fluoranthene	--		9.58		0.56		0.8		6.86		5.26		5.21		--		4.53		0.35 J		3.05	
Benzo(k)fluoranthene	--		3.66		0.149 U		0.29 J		2.8		1.85 J		1.81 J		--		1.56		0.145 U		1.18	
Total Benzofluoranthenes	--		17		0.973 U		1.38		12.6		9.03		8.82		--		7.73		0.948 U		5.36	
Benzo(a)pyrene	--		6.65		0.27 J		0.46 J		5.2		3.27		3		--		2.65		0.092 U		2.06	
Indeno(1,2,3-cd)pyrene	--		4.57		0.15 U		0.29 J		3.21		1.9 J		1.9 J		--		1.79		0.146 U		1.27	
Dibenz(a,h)anthracene	--		1.29		0.173 U		0.175 U		0.882 U		0.859 U		0.858 U		--		0.56		0.169 U		0.36 J	
cPAH TEQ (0 DL)	--		9.41		0.366		0.652		7.06		4.59		4.31		--		3.87		0.0433		2.93	
cPAH TEQ (1/2 DL)	--		9.41		0.39		0.661		7.1		4.63		4.36		--		3.87		0.122		2.93	
cPAH TEQ (1 DL)	--		9.41		0.413		0.67		7.15		4.67		4.4		--		3.87		0.201		2.93	

\* Insufficient fines were present for the full analysis  
 U-the analyte was analyzed for, but was not detected  
 J-the analyte was positively identified; the  
 UJ-the analyte was not detected above the detection limit  
 DW-dry weight Q-qualifier TEQ-toxicity equivalent  
 Results for Cd were taken from laboratory

Location ID	DUN-09-S	Q	DUN-10-S	Q	DUN-11-S	Q	DUN-12-S	Q	DUN-13-S	Q	DUN-14-S	Q	DUN-15-S	Q	DUN-16-S	Q	DUN-17-S	Q	DUN-18-S	Q	DUN-19-S	Q
Date/Time	5/6/2013	14:25	5/6/2013	12:10	5/6/2013	15:49	5/6/2013	11:30	5/6/2013	13:28	5/7/2013	9:48	5/7/2013	12:19	5/7/2013	11:07	5/7/2013	9:02	5/7/2013	17:35	5/7/2013	9:20
<b>Conventionals</b>																						
Total Organic Carbon	0.521		0.949		0.418		1.56		0.631		--		--		--		--		--		--	
Total Solids	77.39		74.35		80.41		56.77		75.51		--		--		--		--		--		--	
Total Volatile Solids	1.33		1.71		1.51		4.31		1.63		--		--		--		--		--		--	
Preserved Total Solids	78.11		71.8		80.95		54.19		73.65		70.31		71.58		77.89		60.72		43.41		41.49	
Sulfide	2.31		26.6		1.33		26.8		1.31 U		1.38 U		1.38 U		1.28 U		1.64 U		2.27 U		2.4 U	
Particle/Grain Size, Phi Scale <-1	14.8		19		37.5		0.1		10.4		0.1		3.3		7.6		0.1		0.3		0.1	
Particle/Grain Size, Phi Scale -1 to 0	14.5		1.3		33.4		0.7		5.5		0.3		3.6		11.1		0.3		1		0.3	
Particle/Grain Size, Phi Scale 0 to 1	21.5		8.5		18.1		1.1		9.2		0.4		7.9		22		0.9		1.4		0.7	
Particle/Grain Size, Phi Scale 1 to 2	33.6		36.6		4.6		1.1		20.5		2.3		24.2		41.4		4.8		1.6		1	
Particle/Grain Size, Phi Scale 2 to 3	12		29.6		1.3		7.3		40.7		45.7		44.9		16		40.4		6.1		1	
Particle/Grain Size, Phi Scale 3 to 4	0.9		2.2		0.9		27.6		6.9		34.8		8.9		0.6		15.7		14.5		7.6	
Particle/Grain Size, Phi Scale 4 to 5	-- U		-- U		1		25.6		2.8		6.1		1.5		-- U		10.7		21.7		22	
Particle/Grain Size, Phi Scale 5 to 6	-- U		-- U		0.7		12.3		0.8		2.3		1.1		-- U		8		15.6		20.5	
Particle/Grain Size, Phi Scale 6 to 7	-- U		-- U		0.6		7.7		0.6		1.6		0.9		-- U		5.1		9.8		13.8	
Particle/Grain Size, Phi Scale 7 to 8	-- U		-- U		0.4		3.9		0.5		1.2		0.7		-- U		3		5.9		8.1	
Particle/Grain Size, Phi Scale 8 to 9	-- U		-- U		0.3		2.3		0.4		1		0.6		-- U		2.6		5.2		4.4	
Particle/Grain Size, Phi Scale 9 to 10	-- U		-- U		0.3		2.8		0.5		1.2		0.6		-- U		2.4		4.9		5.2	
Particle/Grain Size, Phi Scale >10	-- U		-- U		0.9		7.5		1.3		3		1.7		-- U		6.1		12		15.4	
Particle/Grain Size, Fines (Silt/Clay)	2.6 *		2.9 *		4.3		62.1		6.9		16.4		7.1		1.3 *		37.8		75		89.3	
<b>Metals (mg/kg DW)</b>																						
Arsenic	2		1.9		3.6		5.5		2.4		--		--		--		--		--		--	
Cadmium	0.12 U		0.13 U		0.12 U		0.28		0.13 U		--		--		--		--		--		--	
Mercury	0.02 U		0.03 U		0.03 U		0.05		0.03 U		0.03 J		0.03 UJ		0.02 UJ		0.04 J		0.07 J		0.07 J	
<b>carcinogenic PAH (ug/kg DW)</b>																						
Benzo(a)anthracene	0.206 U		0.47 J		0.32 J		2.5		0.46 J		--		--		--		--		--		--	
Chrysene	0.56		1.22		0.89		5.92		1.18		--		--		--		--		--		--	
Benzo(b)fluoranthene	0.42 J		0.91		0.62		4.23		0.88		--		--		--		--		--		--	
Benzo(k)fluoranthene	0.152 U		0.29 J		0.149 U		1.47 J		0.28 J		--		--		--		--		--		--	
Total Benzofluoranthenes	0.991 U		1.48		0.975 U		7.11		1.44		--		--		--		--		--		--	
Benzo(a)pyrene	0.096 U		0.43 J		0.33 J		2.42		0.41 J		--		--		--		--		--		--	
Indeno(1,2,3-cd)pyrene	0.153 U		0.34 J		0.15 U		1.29 J		0.32 J		--		--		--		--		--		--	
Dibenz(a,h)anthracene	0.176 U		0.175 U		0.173 U		0.861 U		0.175 U		--		--		--		--		--		--	
cPAH TEQ (0 DL)	0.0476		0.643		0.433		3.43		0.616		--		--		--		--		--		--	
cPAH TEQ (1/2 DL)	0.13		0.652		0.457		3.47		0.625		--		--		--		--		--		--	
cPAH TEQ (1 DL)	0.212		0.661		0.48		3.51		0.633		--		--		--		--		--		--	

\* Insufficient fines were present for the fu  
 U-the analytie was analyzed for, but was r  
 J-the analyte was positively identified; the  
 UJ-the analyte was not detected above th  
 DW-dry weight Q-qualifier TEQ-toxici  
 Results for Cd were taken from laboratory

Location ID	DUN-20-S	Q	DUN-21-S	Q	DUN-22-S	Q	PT-01-S	Q	PT-02-S	Q	PT-03-S	Q	PT-04-S	Q	PT-05-S	Q	PT-06-S	Q	PT-07-S	Q	
Date/Time	5/7/2013	10:19	5/7/2013	11:50	5/7/2013	11:31	5/10/2013	14:46	5/10/2013	10:35	5/10/2013	13:07	5/10/2013	10:08	5/10/2013	11:15	5/10/2013	9:09	5/10/2013	11:58	
<b>Conventionals</b>																					
Total Organic Carbon	--		--		--		1.41		1.82		2.79		0.751		2.2		0.978		0.564		
Total Solids	--		--		--		44.39		45.2		41.01		53.57		41.49		61.9		72.56		
Total Volatile Solids	--		--		--		5.82		5.88		6.96		4.38		6.42		3.12		0.87		
Preserved Total Solids	66.91		72.14		65.54		40.76		36.67		37.27		46.4		36.22		51.9		72.57		
Sulfide	1.49	U	1.34	U	1.5	U	3.16	J	7.99	J	152	J	7.56	J	120	J	2.64	J	179	J	
Particle/Grain Size, Phi Scale <-1	0.1		5.6		0.1	U	0.3		1.8		0.1	U	0.1		3.5		0.2		0.1	U	
Particle/Grain Size, Phi Scale -1 to 0	0.3		4.8		0.3		0.2		0.2		0.3		0.2		0.3		0.3		0.1		
Particle/Grain Size, Phi Scale 0 to 1	1.4		17.3		0.8		0.3		0.4		1		0.4		0.5		0.4		0.6		
Particle/Grain Size, Phi Scale 1 to 2	10.9		40.8		3.3		0.3		0.5		1.6		0.6		0.6		1		39.1		
Particle/Grain Size, Phi Scale 2 to 3	42.7		18.8		43.2		0.7		1.7		9.5		3.7		3.4		17.9		58.1		
Particle/Grain Size, Phi Scale 3 to 4	25.5		4.6		23.3		6.3		6.9		8.8		29.6		7.7		40.4		0.9		
Particle/Grain Size, Phi Scale 4 to 5	5.7		2.6		8.7		18.6		16.5		3.2		18.8		14		9.4		--	U	
Particle/Grain Size, Phi Scale 5 to 6	2.8		1.2		4.9		20.3		19.3		13		11.9		15.7		7.1		--	U	
Particle/Grain Size, Phi Scale 6 to 7	2.1		0.9		3.3		12.3		12.4		13.7		7.1		11.7		4.5		--	U	
Particle/Grain Size, Phi Scale 7 to 8	1.7		0.7		2.9		9.4		9.5		12.3		6.3		10.6		3.7		--	U	
Particle/Grain Size, Phi Scale 8 to 9	1.5		0.6		2.2		8.4		7.7		10.1		5.1		8.5		4		--	U	
Particle/Grain Size, Phi Scale 9 to 10	1.6		0.5		2		6.4		6.7		8.2		4.4		7.1		3.2		--	U	
Particle/Grain Size, Phi Scale >10	3.7		1.4		5.2		16.5		16.5		18.2		11.8		16.6		8		--	U	
Particle/Grain Size, Fines (Silt/Clay)	19.1		8		29.2		91.8		88.6		78.7		65.5		84.1		39.9		1.2	*	
<b>Metals (mg/kg DW)</b>																					
Arsenic	--		--		--		5.7		6.1		6.4		5		6		4		1.9		
Cadmium	--		--		--		0.24		0.24		0.46		0.25		0.37		0.22		0.19		
Mercury	0.03	UJ	0.02	UJ	0.03	J	0.1		0.08		0.09		0.06		0.08		0.04		0.03	U	
<b>carcinogenic PAH (ug/kg DW)</b>																					
Benzo(a)anthracene	--		--		--		15.2		17.3		19.4		12.6		20.9		5.92		0.45	J	
Chrysene	--		--		--		24.9		28.8		29.8		19.7		32.8		10.5		0.62		
Benzo(b)fluoranthene	--		--		--		18.5		22		21.4		15.2		25.2		8.47		0.63		
Benzo(k)fluoranthene	--		--		--		7.46		8.2		11		6.44		9.08		3.05		0.25	J	
Total Benzofluoranthenes	--		--		--		33.1		38.3		41		27.9		43.2		14.5		1.11		
Benzo(a)pyrene	--		--		--		15.2		15.3		17.2		12.3		17.1		5.91		0.39	J	
Indeno(1,2,3-cd)pyrene	--		--		--		8.02		10.7		11.4		6.26		12		3.16		0.27	J	
Dibenz(a,h)anthracene	--		--		--		2.19		2.83		2.9		1.9		3.06		0.93		0.17	U	
cPAH TEQ (0 DL)	--		--		--		20.6		21.7		24.1		16.7		24.5		8.17		0.556		
cPAH TEQ (1/2 DL)	--		--		--		20.6		21.7		24.1		16.7		24.5		8.17		0.565		
cPAH TEQ (1 DL)	--		--		--		20.6		21.7		24.1		16.7		24.5		8.17		0.573		

\* Insufficient fines were present for the fu  
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 DW-dry weight Q-qualifier TEQ-toxici  
 Results for Cd were taken from laboratory

Location ID	PT-08-S	Q	PT-09-S	Q	PT-10-S	Q	PT-11-S	Q	PT-12-S	Q	PT-13-S	Q	PT-13-D	Q	PT-13-T	Q	PT-14-S	Q	PT-15-S	Q	
Date/Time	5/10/2013	14:11	5/10/2013	9:48	5/10/2013	11:33	5/10/2013	12:21	5/10/2013	9:26	5/10/2013	13:23	5/10/2013	13:23	5/10/2013	13:23	5/10/2013	13:54	5/10/2013	14:31	
<b>Conventionals</b>																					
Total Organic Carbon	2.06		0.851		3.02		--		--		--		--		--		--		--		
Total Solids	41.72		75.54		38.66		--		--		--		--		--		--		--		
Total Volatile Solids	6.59		1.22		7.84		--		--		--		--		--		--		--		
Preserved Total Solids	36.37		72.53		32.36		30.52		50.87		32.64		34.95		33.82		34.43		35.67		
Sulfide	4.18	J	1.75	J	56.9	J	7.35	J	30.3	J	19.5	J	98.1	J	27	J	3.64	J	3.13	J	
Particle/Grain Size, Phi Scale <-1	0.6		0.4		0.5		0.1	U	0.2		0.1	U	0.2		0.1	U	2.7		0.1		
Particle/Grain Size, Phi Scale -1 to 0	0.3		0.4		0.2		0.5		0.6		0.1		0.2		0.2		0.3		0.4		
Particle/Grain Size, Phi Scale 0 to 1	0.5		7.3		0.6		1.1		0.6		0.5		0.5		0.5		0.3		0.5		
Particle/Grain Size, Phi Scale 1 to 2	0.3		35.5		0.6		0.9		1.7		0.5		0.5		0.4		0.3		0.7		
Particle/Grain Size, Phi Scale 2 to 3	0.4		37.4		1.9		1.6		21.9		1.7		1.6		1.7		0.5		1.1		
Particle/Grain Size, Phi Scale 3 to 4	2.9		11		4.2		5.5		25.2		4.2		4.2		4.2		3		3.9		
Particle/Grain Size, Phi Scale 4 to 5	15.3		2.1		5.4		6.4		13.7		8.7		9.1		7.6		10.1		14.7		
Particle/Grain Size, Phi Scale 5 to 6	20.5		1		15.9		14.3		7.3		19.4		17.6		19.1		20.3		22.3		
Particle/Grain Size, Phi Scale 6 to 7	16.3		0.7		17.9		17.2		5.3		17.3		17.9		17.8		14.9		16.8		
Particle/Grain Size, Phi Scale 7 to 8	9.8		0.7		14.6		14.7		5.3		11.2		11.8		12.1		10.5		10		
Particle/Grain Size, Phi Scale 8 to 9	8.4		0.8		10.7		10.7		5.1		10.3		10.5		9.9		9.7		8.4		
Particle/Grain Size, Phi Scale 9 to 10	6.8		0.7		8.7		8.5		3.9		7.5		7.1		8.1		7.4		6.2		
Particle/Grain Size, Phi Scale >10	18		2		18.7		18.6		9.4		18.7		18.8		18.4		20.1		14.9		
Particle/Grain Size, Fines (Silt/Clay)	95.1		8		91.9		90.4		49.8		93		92.8		93.1		93		93.3		
<b>Metals (mg/kg DW)</b>																					
Arsenic	5.1		2.7		6		--		--		--		--		--		--		--		
Cadmium	0.23	U	0.13	U	0.41		--		--		--		--		--		--		--		
Mercury	0.09		0.02	U	0.09		0.11		0.05		0.09		0.09		--		0.08		0.09		
<b>carcinogenic PAH (ug/kg DW)</b>																					
Benzo(a)anthracene	25.7		0.96		19.3		--		--		--		--		--		--		--		
Chrysene	41.1		1.71		31.7		--		--		--		--		--		--		--		
Benzo(b)fluoranthene	26.1		1.41		22.3		--		--		--		--		--		--		--		
Benzo(k)fluoranthene	11.6		0.59		11.9		--		--		--		--		--		--		--		
Total Benzofluoranthenes	48.4		2.55		43.6		--		--		--		--		--		--		--		
Benzo(a)pyrene	20.4		0.95		18.4		--		--		--		--		--		--		--		
Indeno(1,2,3-cd)pyrene	10.6		0.63		11.9		--		--		--		--		--		--		--		
Dibenz(a,h)anthracene	2.99		0.171	U	3.07		--		--		--		--		--		--		--		
cPAH TEQ (0 DL)	28.5		1.33		25.6		--		--		--		--		--		--		--		
cPAH TEQ (1/2 DL)	28.5		1.33		25.6		--		--		--		--		--		--		--		
cPAH TEQ (1 DL)	28.5		1.34		25.6		--		--		--		--		--		--		--		

\* Insufficient fines were present for the full analysis.  
 U-the analyte was analyzed for, but was not detected above the reporting limit.  
 J-the analyte was positively identified; the reporting limit was not detected above the reporting limit.  
 UJ-the analyte was not detected above the reporting limit.  
 DW-dry weight Q-qualifier TEQ-toxicity equivalent  
 Results for Cd were taken from laboratory

Location ID	SEQ-01-S	Q	SEQ-02-S	Q	SEQ-03-S	Q	SEQ-03-D	Q	SEQ-03-T	Q	SEQ-04-S	Q	SEQ-05-S	Q	SEQ-06-S	Q	SEQ-07-S	Q	SEQ-08-S	Q
Date/Time	5/9/2013	11:41	5/9/2013	9:36	5/9/2013	11:04	5/9/2013	11:04	5/9/2013	11:04	5/9/2013	10:11	5/9/2013	8:57	5/9/2013	9:52	5/9/2013	11:24	5/9/2013	9:21
<b>Conventionals</b>																				
Total Organic Carbon	1.94		2.73		2.41		1.35		2.12		1.52		3.3		--		--		--	
Total Solids	27.67		35.96		32.63		32.29		37.75		42.37		30.47		--		--		--	
Total Volatile Solids	8.01		7.18		7.39		7.47		7.35		7.05		9.23		--		--		--	
Preserved Total Solids	24.74		29.24		31.43		30.27		28.7		36.72		29.33		29.37		24.71		32.3	
Sulfide	707		302		443		310		276		212		341		44.8		974		84.8	
Particle/Grain Size, Phi Scale <-1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.4		0.1	U	0.1	U	0.1	U
Particle/Grain Size, Phi Scale -1 to 0	0.4		0.1	U	0.1	U	0.1		0.1	U	0.4		0.7		0.2		0.1		0.1	
Particle/Grain Size, Phi Scale 0 to 1	0.1	U	0.8		0.2		0.3		0.2		0.5		2.2		0.8		0.6		0.4	
Particle/Grain Size, Phi Scale 1 to 2	1		3.9		0.5		0.7		0.4		1.1		4.3		2.5		1		2	
Particle/Grain Size, Phi Scale 2 to 3	3.1		4.1		1.8		1.7		1.6		10.6		3.1		3.5		0.9		3.9	
Particle/Grain Size, Phi Scale 3 to 4	4.2		8.7		5.3		5.2		5.1		12.3		3.5		7.8		3.6		5.1	
Particle/Grain Size, Phi Scale 4 to 5	6.2		10.3		11.7		12.1		11.3		7.9		5.5		9.3		7.8		5.8	
Particle/Grain Size, Phi Scale 5 to 6	18.3		15.3		18.6		18.1		18.9		11.7		21.2		15.4		20.9		16.4	
Particle/Grain Size, Phi Scale 6 to 7	15.7		13.2		16.3		15.6		15.9		11.6		19.1		13.7		16.4		17.9	
Particle/Grain Size, Phi Scale 7 to 8	13.8		10.6		11.6		12.4		12		9.4		12		11.7		13.3		14	
Particle/Grain Size, Phi Scale 8 to 9	9		9.3		9.1		8.6		9.4		8.9		7.9		9		9.1		10	
Particle/Grain Size, Phi Scale 9 to 10	8.4		7.6		7.9		7.8		7.7		8		7.4		8.3		8		8.3	
Particle/Grain Size, Phi Scale >10	19.9		16.3		16.9		17.4		17.5		17.5		12.6		17.7		18.2		16.1	
Particle/Grain Size, Fines (Silt/Clay)	91.3		82.6		92		92		92.7		75.1		85.7		85.1		93.7		88.5	
<b>Metals (mg/kg DW)</b>																				
Arsenic	7		7.9		8		7.7		--		7.5		7.7		--		--		--	
Cadmium	1.7		1.4		2.1		1.9		--		1.1		3.6		--		--		--	
Mercury	0.08		0.1		0.09		0.1		--		0.08		0.09		0.09		0.09		0.1	
<b>carcinogenic PAH (ug/kg DW)</b>																				
Benzo(a)anthracene	14.3		13.6		14.7		14		--		11.1		11.2		--		--		--	
Chrysene	22.9		22		24.2		21.7		--		19.8		18.5		--		--		--	
Benzo(b)fluoranthene	21		19.7		22.2		23.3		--		16.2		18.4		--		--		--	
Benzo(k)fluoranthene	10.3		9.37		10.9		8.59		--		7.98		7.94		--		--		--	
Total Benzofluoranthenes	39.5		36.6		41.8		40.2		--		30.3		33.9		--		--		--	
Benzo(a)pyrene	15.7		14.2		16		15.4		--		11.4		12.4		--		--		--	
Indeno(1,2,3-cd)pyrene	10.9		12.4		12.6		11.8		--		9.51		12.7		--		--		--	
Dibenz(a,h)anthracene	2.68		2.87		3.05		2.84		--		2.37		2.74		--		--		--	
cPAH TEQ (0 DL)	21.8		20.2		22.6		21.7		--		16.3		17.9		--		--		--	
cPAH TEQ (1/2 DL)	21.8		20.2		22.6		21.7		--		16.3		17.9		--		--		--	
cPAH TEQ (1 DL)	21.8		20.2		22.6		21.7		--		16.3		17.9		--		--		--	

\* Insufficient fines were present for the full analysis. U-the analyte was analyzed for, but was not detected; J-the analyte was positively identified; the UJ-the analyte was not detected above the detection limit. DW-dry weight Q-qualifier TEQ-toxicity equivalent. Results for Cd were taken from laboratory.

North Olympic Peninsula Regional Background Validated Data 8/5/2013

Location ID		DIS-01-S	Q	DIS-02-S	Q	DIS-03-S	Q	DIS-04-S	Q	DIS-05-S	Q	DIS-06-S	Q	DIS-07-S	Q	DIS-08-S	Q	DIS-09-S	Q	DIS-09-D	Q	DIS-10-S	Q	DIS-11-S	Q	DIS-12-S	Q
Date/Time		5/8/2013	12:06	5/8/2013	15:29	5/8/2013	13:57	5/7/2013	13:42	5/8/2013	15:54	5/7/2013	15:30	5/8/2013	11:47	5/7/2013	14:29	5/7/2013	16:40	5/7/2013	16:40	5/8/2013	11:27	5/7/2013	14:07	5/8/2013	14:35
<b>Dioxin/Furan Congeners (ng/kg DW)</b>																											
2,3,7,8-TCDD	1	0.348		0.301	U	0.06	U	0.203		0.221		0.438		0.314		0.082	U	0.187		0.21		0.303		0.225		0.071	U
1,2,3,7,8-PECCD	1	1.07		1.01		0.087	U	0.599	J	0.736	J	1.56		1.22		0.24	J	0.513	J	0.473	J	0.896	J	0.714	J	0.18	J
1,2,3,4,7,8-HXCDD	0.1	0.848	J	0.792	J	0.099	U	0.445	J	0.521	J	1.44	J	0.973		0.185	U	0.415	J	0.39	J	0.745	J	0.557	J	0.14	J
1,2,3,6,7,8-HXCDD	0.1	3.71		3.91		0.326	U	2.16		2.87		6.22		4.7		0.872	J	1.92		1.94		3.64		2.8		0.616	J
1,2,3,7,8,9-HXCDD	0.1	3.31		3.62		0.27	J	1.85		2.83		7.39		3.93		0.864	J	2.23		1.99		3.11		2.73		0.734	J
1,2,3,4,6,7,8-HPCDD	0.01	33		31.2		2.56		18.3		22.8		52.2		37.8		6.64		14.5		15		31		22.2		5.18	
OCDD	0.0003	190		199		15.8		114		138		295		217		36.1		88.7		91.5		176		130		29.4	
2,3,7,8-TCDF	0.1	1.72		1.68		0.116	J	1.15		1.23		2.87		2.13		0.468		1.03		1.16		1.52		1.51		0.308	
1,2,3,7,8-PECDF	0.03	0.593	J	0.39	J	0.058	J	0.277	J	0.335	J	0.801	J	0.563	J	0.108	J	0.278	J	0.233	J	0.403	J	0.313	J	0.093	U
2,3,4,7,8-PECDF	0.3	0.913	J	0.698	J	0.077	J	0.465	J	0.467	J	1.23		0.854	J	0.186	J	0.347	J	0.374	J	0.687	J	0.513	J	0.127	J
1,2,3,4,7,8-HXCDF	0.1	0.99	J	0.747	J	0.09	U	0.429	J	0.551	J	1.67		0.972		0.234	J	0.437	J	0.422	J	0.789	J	0.499	J	0.172	J
1,2,3,6,7,8-HXCDF	0.1	0.624	J	0.46	J	0.0491	U	0.262	J	0.314	J	0.873	J	0.571	J	0.12	J	0.251	J	0.253	J	0.48	J	0.316	J	0.141	J
1,2,3,7,8,9-HXCDF	0.1	0.081	U	0.0498	U	0.0491	U	0.0469	U	0.0464	U	0.093	J	0.087	U	0.049	U	0.0467	U	0.047	U	0.067	J	0.0481	U	0.0474	U
2,3,4,6,7,8-HXCDF	0.1	0.581	J	0.478	J	0.061	U	0.271	J	0.357	J	0.935	J	0.579	J	0.113	J	0.274	J	0.231	J	0.451	J	0.345	J	0.112	J
1,2,3,4,6,7,8-HPCDF	0.01	8.07		6.85		0.598	J	4.08		5.2		13.3	J	8.71		1.6		3.62	J	3.5		6.75		5.26		1.41	J
1,2,3,4,7,8,9-HPCDF	0.01	0.491	J	0.416	J	0.0491	U	0.236	J	0.286	J	0.634	J	0.477	J	0.084	J	0.247	J	0.171	J	0.367	J	0.263	J	0.089	J
OCDF	0.0003	13.8		11.9		1.16	J	7.22		7.93		15.9		13.9		2.25		5.05		5.41		9.6		8.37		1.92	
Dx/F TEQ (0 DL)		3.36		2.85		0.1		1.87		2.3		5.29		3.73		0.661		1.68		1.66		2.93		2.3		0.517	
Dx/F TEQ (1/2 DL)		3.37		3		0.208		1.87		2.3		5.29		3.74		0.714		1.68		1.66		2.93		2.3		0.556	
Dx/F TEQ (1 DL)		3.37		3.15		0.315		1.87		2.31		5.29		3.74		0.766		1.68		1.66		2.93		2.3		0.595	
<b>PCB Congeners (ng/kg DW)</b>																											
2-MOCB	1	7.79	J	7.48	J	0.847	J	6.21	J	5.71	J	10.8	J	7.64	J	1.97	J	5.05	J	5.59	J	6.52	J	6.49	J	2.15	J
3-MOCB	2	29.9		42.6		3.75		22.2		22.8		38.1		34.6		12.3		15.7		17.5		41.5		22		8.35	
4-MOCB	3	8.44	J	8.23	J	1.03	J	5.25	J	5.47	J	13.2	J	9.16	J	2.31	J	4.33	J	4.78	J	7.16	J	5.98	J	2.88	J
2,2'-DICB	4	10.2		10.3		0.991		8.58		9.11		19.2		12.1		2.66		6.72		7.04		9.08		11.8		2.54	
2,3-DICB	5	0.532	U	0.455		0.146	U	0.339	J	0.33	U	1.18		0.618		0.268	U	0.266	J	0.299	J	0.528	J	0.569	U	0.15	U
2,3'-DICB	6	7.35		6.48		0.518		4.46		4.87		15.9		7.97		1.1		3.73		4.22		5.84		6.35		1	
2,4-DICB	7	3.22		2.33		0.249	J	1.38		1.6		7.15		3.44		0.536		1.11		1.23		2.16		2		0.318	U
2,4'-DICB	8	49.2		38.4		2.73		29.1		29.8		104		49.9		8.11		24		26.5		37.3		40.2		6.17	
2,5-DICB	9	1.53		1.35		0.197	U	0.953		1.04	U	3.54		1.89		0.416		0.937		0.914		1.43	UJ	1.47		0.325	U
2,6-DICB	10	0.415		0.356	J	0.137	U	0.269	J	0.329	J	0.991		0.41		0.256	U	0.258	U	0.246	J	0.359	J	0.38	U	0.14	U
3,3'-DICB	11	40.7		65.2		5.29		44.4		44.3		45.3		57.5		15		42.7		45.6		67.2		57.7		9.82	
3,4-DICB	12	9.9	C	10.1	C	1.28	CU	6.37	C	7.05	C	14.4	CUJ	12	C	1.67	C	5.07	C	5.17	C	9.73	CJ	9.35	C	2.73	CU
3,5-DICB	14	1.22	U	1.32	U	0.201	U	0.638	U	0.733	U	1.84	U	1.47		0.275	U	0.652	U	0.573	U	1.18	UJ	0.992	U	0.3	U
4,4'-DICB	15	64		59		4.09		41.1		45.9		141		75.7		11.8		33.9		36.1		53.9		53		8.74	
2,2',3-TRICB	16	17.6		13.6		1.03		10		10.4		41.4		18.7		2.24		8.27		8.42		12.4		21		2.27	
2,2',4-TRICB	17	19.3		16.9		1.43		12.5		14.3		49.1		20.3		3.83		11.3		11.1		15.2		23.5		3.36	
2,2',5-TRICB	18	34.1	C	27.1	CJ	2.41	C	21.1	C	25.9	C	88.2	C	34.6	C	5.84	C	20.1	C	21.4	C	23.9	CJ	44.7	C	5.76	C
2,2',6-TRICB	19	3.36		2.65		0.303	J	2.11		2.2		7.06		3.06		0.736	U	1.57		1.76		2.32	J	4.75		0.738	
2,3,3'-TRICB	20	153	C	137	C	10.8	C	96.2	C	114	C	386	C	179	C	30.5	C	80.3	C	86.1	C	132	CJ	144	C	24.1	C
2,3,4-TRICB	21	43.6	C	42.5	C	2.92	C	31	C	35.7	C	108	C	57.6	C	7.18	C	25.7	C	27.9	C	42.1	CJ	54.2	C	6.11	C
2,3,4'-TRICB	22	33.6		33.1		2.53		24.1		26.9		79.6		40.9		6.78		20.4		21.4		31.7		39.6		5.75	
2,3,5-TRICB	23	0.103	J	0.217	J	0.0495	U	0.0746	U	0.202	U	0.273	J	0.214	U	0.115	J	0.0908	U	0.0699	U	0.266	UJ	0.107	J	0.0487	U
2,3,6-TRICB	24	0.547		0.321	J	0.048	U	0.317	J	0.328	U	1.28		0.424		0.18	J	0.286	J	0.287	J	0.29	UJ	0.659		0.073	U
2,3',4-TRICB	25	10.5		9.46		0.701		6.48		7.33		26.6		12.5		1.64		5.27		5.62		8.85		9.81		1.48	
2,3',5-TRICB	26	17.2	C	16.1	C	1.23	C	11.6	C	12.9	C	43.2	C	19.3	C	3.37	C	9.97	C	10.6	C	15.1	CJ	18.4	C	2.8	C
2,3',6-TRICB	27	3.69		3.05		0.259	U	2.21		2.56		7.81	J	3.75		0.607		1.97		1.95		2.73	J	3.93		0.534	
2,4',5-TRICB	31	87.5		83.7		6.7		59.1		68.4		218		104		17		50.5		54.4		82.8		95.8		14.6	
2,4',6-TRICB	32	16.7		14		1.38		10.6		12.9		44.9		18.2		3.6		8.68		9.05		12.5	J	18.5		3.15	
2',3,5-TRICB	34	0.631		0.65		0.0472	U	0.359	J	0.534		1.41		0.716		0.174	J	0.327	J	0.327	J	0.496	UJ	0.528		0.115	U
3,3',4-TRICB	35	6.13		6.29		0.495		4.																			



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Location ID		DIS-01-S	Q	DIS-02-S	Q	DIS-03-S	Q	DIS-04-S	Q	DIS-05-S	Q	DIS-06-S	Q	DIS-07-S	Q	DIS-08-S	Q	DIS-09-S	Q	DIS-09-D	Q	DIS-10-S	Q	DIS-11-S	Q	DIS-12-S	Q		
3,4,5-TRICB	38	0.875		0.679		0.268	U	0.447		0.447		1.37		0.722	U	0.126	J	0.396		0.449	U	0.749	J	0.577		0.144	J		
3,4,5-TRICB	39	1.38		1.15		0.117	J	0.815		0.865		3		1.44		0.221	J	0.689		0.673		1.11	J	1.1		0.196	J		
2,2',3,3'-TECB	40	63.5	C	48.2	C	3.48	C	36.9	C	39.1	C	156	C	66.6	C	8.11	C	28.3	C	29.5	C	46.8	C	50.7	C	7.58	C		
2,2',3,4'-TECB	42	32.4		24.4		1.99		18.4		19.2		78.8		33		4.9		14		15		23.3		25.1		4.45			
2,2',3,5'-TECB	43	3.47		2.49		0.145	J	1.74		2.13	U	8.25		3.19		0.381	J	1.42	U	1.6		2.3		3		0.465			
2,2',3,5'-TECB	44	120	C	93.6	C	7.49	C	66.4	C	89.1	C	292	C	118	C	17.4	C	52.1	C	54.7	C	85	C	87.6	C	16.1	C		
2,2',3,6'-TECB	45	12.7	C	8.38	C	0.784	C	6.25	C	7.21	C	31.9	C	10.9	C	1.82	C	5.22	C	5.19	C	7.83	C	11.1	C	1.88	C		
2,2',3,6'-TECB	46	4.74		3.01		0.292	J	2.18		2.38		11.8		3.77		0.546		1.81		1.93		2.83		3.87		0.547	U		
2,2',4,5'-TECB	48	18.2		13.8		1.1		10.6		11		45.7		18.2		2.63		8.71		9.34		13		16.3		2.39			
2,2',4,5'-TECB	49	76.6	C	62.6	C	5.66	C	44.4	C	56.2	C	187	C	81.2	C	12	C	35.1	C	37.1	C	58.1	C	58.8	C	11.4	C		
2,2',4,6'-TECB	50	11.1	C	7.94	C	0.734	C	5.57	C	6.94	C	26.7	C	9.53	C	1.61	C	4.64	C	4.99	C	7.14	C	8.62	C	1.64	C		
2,2',5,5'-TECB	52	136		112		9.79		70.6		132		324		130		19.3		53.8		57.7		93.4		88.6		17.9			
2,2',6,6'-TECB	54	0.145	U	0.235	J	0.0544	U	0.076	U	0.13	U	0.35	J	0.16	U	0.057	U	0.101	J	0.085	J	0.215	U	0.19	J	0.0474	U		
2,3,3',4'-TECB	55	2.25		1.82		0.149	J	1.59		1.51		6.01		2.42		0.431		1.18		1.22		1.61		2.04		0.365	J		
2,3,3',4'-TECB	56	60.5		58.2		4.42		43.8		50.6		147		75.7		11.8		33.5		36.5		57.4		61		9.6			
2,3,3',5'-TECB	57	0.946		0.567		0.0801	U	0.486		0.548		2.18		0.841		0.122	J	0.403		0.45		0.783		0.735		0.156	J		
2,3,3',5'-TECB	58	0.75		0.501		0.0813	U	0.418		0.438		1.82		0.728		0.108	U	0.315	J	0.347	J	0.537		0.521		0.103	U		
2,3,3',6'-TECB	59	11.2	C	8.28	C	0.704	CU	6.1	C	6.75	C	27.6	C	11.2	C	1.71	C	4.75	C	5.07	C	8.27	C	8.89	C	1.5	C		
2,3,4,4'-TECB	60	36.6		35.3		2.79		26.6		29		88.1		46.5		7.5		20.3		22.1		35.1		38.1		6.11			
2,3,4,5'-TECB	61	236	C	231	C	19.5	C	166	C	218	C	581	C	294	C	47	C	127	C	138	C	218	C	215	C	39.3	C		
2,3,4,5'-TECB	63	6.14		5.23		0.456		3.67		4.59		14.7		6.89		1.2		3		3.27		5.23		5.35		1.03			
2,3,4,6'-TECB	64	47.7		37.5		3.21		27.6		32.4		113		48.3		7.33		20.8		22.4		34.7		37.6		6.74			
2,3,4,4'-TECB	66	124		125		10.1		95.4		113		311		166		26.3		76.4		82		129		125		22			
2,3,4,5'-TECB	67	5.65		4.17		0.338	J	3.15		3.3		13.3		5.65		0.889		2.47		2.53		4.18		4.41		0.779			
2,3,4,5'-TECB	68	1.49		1.39		0.143	U	0.962		1.13		3.12		1.73		0.315	J	0.753		0.827		1.34		1.26		0.278	J		
2,3,5,5'-TECB	72	2.39		1.84		0.193	J	1.28		1.46		5.43		2.64		0.405		0.971		1.04		1.63		1.67		0.35	U		
2,3,5,6'-TECB	73	0.266	J	0.293	J	0.0535	U	0.19	J	0.24	U	0.707		0.361	J	0.093	U	0.159	J	0.247	U	0.214	U	0.135	J	0.048	U		
3,3',4,4'-TECB	77	0.0001		25		25.3		2.13		17.5		21.6		59.8		32.3		6.08		14.8		15.3		24		22.8		4.55	
3,3',4,5'-TECB	78	0.129	U	0.208	U	0.0761	U	0.1	U	0.166	U	0.386	U	0.319	U	0.0976	U	0.121	U	0.114	U	0.361	U	0.168	J	0.0784	U		
3,3',4,5'-TECB	79	2.63		2.66		0.279	J	1.84		2.8		6.22		3.26		0.517		1.32		1.23		2.09		1.88		0.378	J		
3,3',5,5'-TECB	80	0.193	J	0.194	U	0.0708	U	0.102	J	0.149	U	0.235	U	0.307	U	0.0911	U	0.113	U	0.095	U	0.348	U	0.119	J	0.073	U		
3,4,4',5'-TECB	81	0.0003		1.03	U	0.969	U	0.102	U	0.738	U	0.693	U	2.24	U	1.42	U	0.332	U	0.606	U	0.567	U	0.914	U	0.996	U	0.171	U
2,2',3,3',4'-PECB	82	22.3		19.5		1.56	J	12.2	J	27.6		53.5		23.3		3.9		11.2		11.2		16.4		15.5		2.93	J		
2,2',3,3',5'-PECB	83	140	C	130	C	12.4	C	82.9	C	148	C	291	C	151	C	24.4	C	61	C	63.5	C	112	C	98.2	C	20.8	C		
2,2',3,3',6'-PECB	84	45.3		36.7		2.95		22.4		52.5		102		40.7		5.35		16.4		16		27.8		24		5.06			
2,2',3,4,4'-PECB	85	44.7	C	39.9	C	3.89	C	27.3	C	46.5	C	98.8	C	47.1	C	7.76	C	20.2	C	21.1	C	33.3	C	29.9	C	6.61	C		
2,2',3,4,5'-PECB	86	133	C	123	C	10.8	C	75.9	C	161	C	303	C	136	C	21.9	C	59.3	C	60.1	C	96.4	C	86.6	C	18.4	C		
2,2',3,4,6'-PECB	88	25.2	C	21.4	C	1.94	C	13.3	C	27	C	56.8	C	25.3	C	3.44	C	9.69	C	9.8	C	17.4	C	15.3	C	3.35	C		
2,2',3,4,6'-PECB	89	2.05		1.79		0.162	U	1.29		1.95		5.23		2.02		0.266	J	0.852	U	0.867	U	1.49		1.55		0.268	U		
2,2',3,4,5'-PECB	90	205	C	184	C	16.6	C	114	C	235	C	462	C	214	C	33.9	C	86.6	C	89.9	C	146	C	135	C	28.6	C		
2,2',3,5,5'-PECB	92	38		32.3		2.97		19.2		43.7		86.2		37.4		6.25		15.1		15.5		25.6		21.8		5.06			
2,2',3,5,6'-PECB	93	151	C	120	C	10.4	C	69.3	C	158	C	328	C	137	C	19.2	C	52	C	53.7	C	90.1	C	78.5	C	17.7	C		
2,2',3,5,6'-PECB	94	0.967		0.77		0.084	J	0.539		0.772		2.16		1.02	U	0.159	U	0.357	J	0.523		0.584		0.541		0.187	U		
2,2',3,6,6'-PECB	96	1.11		0.913		0.09	U	0.579	U	1.04	U	2.66		1.02		0.156	J	0.441		0.428		0.722		0.656		0.134	U		
2,2',4,5',6'-PECB	103	2.05	U	1.83		0.185	J	1.12		1.76		4.42		2.41		0.374	U	0.887		0.913		1.89		1.36		0.331	J		
2,2',4,6,6'-PECB	104	0.505	U	0.088	J	0.0466	U	0.0469	U	0.11	U	0.05	U	0.109	U	0.049	U	0.0467	U	0.0484	U	0.184	U	0.0481	U	0.0474	U		
2,3,3',4,4'-PECB	105	0.00003		87		95.5		8.85		63.6		115		206		111		20.1		59.6		54		81.9		76.1		15.4	
2,3,3',4,5'-PECB	106	0.176	U	0.149	U	0.0864	U	0.159	U	0.345	U	0.176	U	0.327	U	0.137	U	0.25	U	0.173	U	0.229	U	0.195	U	0.0516	U		
2,3,3',4,5'-PECB	107	7.62	C	7.5	C	0.748	C	4.68	C	9.86	C	17.6	C	8.85	C	1.41	C	4.28	C	4.05	C	6.18	C	5.78	C	1.16	C		
2,3,3',4,6'-PECB	109	17		16.8		1.64		10.7		19.4		43.3		21.4		3.83		9.72		9.67		15.4		13.9		2.97			
2,3,3',4,6'-PECB	110	210	C	196	C	17.8	C	122	C	261	C	470	C	211	C	33.6	C	96.5	C	97.2	C	148	C	139	C	27.8	C		
2,3,3',5,5'-PECB	111	0.402	J	0.3	J	0.0479	U	0.242	J	0.339	U	0.854		0.353	J	0.079	U	0.251	U	0.183	J	0.23	U	0.285	U	0.069	U		
2,3,3',5,6'-PECB	112	0.0752	U	0.0697	U	0.0482	U	0.0545	U	0.183	U	0.0977	U	0.142	U	0.0636	U	0.0842	U	0.0545	U	0.223	U	0.0481	U	0.0474	U		
2,3,4,4',5'-PECB	114	0.00003		3.91		4.29		0.393		2.81		5.42		4.79		0.784		2.65		2.43		3.42		3.19		0.643			
2,3,4,4',5'-PECB	118	0.00003		194		208		19.5		133		255		443		239		43.4		119		114		177		159		32.9	

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Location ID		DIS-01-S	Q	DIS-02-S	Q	DIS-03-S	Q	DIS-04-S	Q	DIS-05-S	Q	DIS-06-S	Q	DIS-07-S	Q	DIS-08-S	Q	DIS-09-S	Q	DIS-09-D	Q	DIS-10-S	Q	DIS-11-S	Q	DIS-12-S	Q		
2,3',4,5,5'-PECB	120	1.65		1.34		0.134	J	0.914		1.2		3.37		1.72		0.343	J	0.757		0.746	U	1.51		1.13		0.282	U		
2,3',4,5,6'-PECB	121	0.108	J	0.111	J	0.0508	U	0.079	U	0.198	U	0.23	J	0.153	U	0.0654	U	0.0865	U	0.056	U	0.24	U	0.087	U	0.0474	U		
2',3,3',4,5'-PECB	122	2.22		2.39		0.234	J	1.57		2.82		5.61		2.87		0.485		1.37		1.31		1.78		1.73		0.351	J		
2',3,4,4',5'-PECB	123	0.00003		4.12		0.418		2.85		4.8		9.18		4.52		0.898		2.23		2.33		3.53		3.13		0.72			
3,3',4,4',5'-PECB	126	0.1		1.53		0.147	U	1.06		1.45		4.08		2.37		0.505		1.04		0.827		1.67		1.37		0.312	J		
3,3',4,5,5'-PECB	127	0.258	J	0.574	U	0.0847	U	0.177	U	0.514	J	0.77		0.327	U	0.135	U	0.248	U	0.209	J	0.229	U	0.349	U	0.0505	U		
2,2',3,3',4,4'-HXCB	128	38	C	40.7	C	3.72	C	25	C	54.1	C	83.7	C	45.6	C	8.24	C	26.3	C	20.1	C	34.2	C	30.3	C	6.44	C		
2,2',3,3',4,5'-HXCB	129	260	C	251	C	23.7	C	160	C	314	C	592	C	301	C	53.8	C	148	C	132	C	301	C	223	C	190	C	42.3	C
2,2',3,3',4,5'-HXCB	130	17.4		17		1.52		10.5		21.5		39.9		20.9		3.41		9.21		8.44		14.2		12.6		2.82			
2,2',3,3',4,6'-HXCB	131	2.63		2.28		0.184	U	1.31		3.63		5.48		2.53	U	0.447		1.01		1.05		1.63		1.46		0.316	U		
2,2',3,3',4,6'-HXCB	132	68.1		62.1		5.21		38.3		88.5		154		74.7		10.5		32.3		31.3		49.8		43.4		9.04			
2,2',3,3',5,5'-HXCB	133	4.66		4.14		0.356	J	2.69		4.6		10.5		5.57		0.976		2.14		2.01		4.07	U	3.2		0.784			
2,2',3,3',5,6'-HXCB	134	10.7	C	9.29	C	0.967	C	5.84	C	13.5	C	24.1	C	11.3	C	1.61	C	4.55	C	4.62	C	7.64	C	6.73	C	1.47	C		
2,2',3,3',5,6'-HXCB	135	75.7	C	62.1	C	5.32	C	39.5	C	73.2	C	176	C	82.8	C	13.3	C	31.9	C	33.3	C	53.4	C	46.4	C	10.7	C		
2,2',3,3',6,6'-HXCB	136	25.5		20.6		1.5		12.4		25.7		57.3		26.5		3.34		8.68		9.32		17		13.9		2.89			
2,2',3,4,4',5'-HXCB	137	8.46		9.43		0.902		5.12		14.2		16.8		9.76		1.73		5.45		4.01		7.57		6.65		1.4			
2,2',3,4,4',6'-HXCB	139	3.79	C	3.7	C	0.365	CJ	2.38	C	5.39	C	8.5	C	4.57	C	0.75	C	1.76	C	1.87	C	3.02	C	2.71	C	0.593	C		
2,2',3,4,5,5'-HXCB	141	25.1		24.9		1.96		14.4		34.6		59.9		26.8		4.03		13.3		12		20.2		16.5		3.69			
2,2',3,4,5,6'-HXCB	142	0.207	U	0.142	U	0.0817	U	0.167	U	0.21	U	0.194	U	0.346	U	0.0795	U	0.148	U	0.241	U	0.283	U	0.136	U	0.117	U		
2,2',3,4,5,6'-HXCB	144	8.65		7.37		0.616	U	4.92		10.3		20.2		8.92		1.43	U	3.84		3.98		6.62		5.38		1.18			
2,2',3,4,6,6'-HXCB	145	0.095	J	0.091	J	0.0484	U	0.059	U	0.177	U	0.188	J	0.174	U	0.0579	U	0.0583	U	0.047	U	0.274	U	0.0549	U	0.0476	U		
2,2',3,4',5,5'-HXCB	146	42.9	J	39.2	J	4.04		24.1	J	46.5		87	J	47.9	J	9.35		20		20.6		33.7	J	30.6	J	8.07			
2,2',3,4',5,6'-HXCB	147	177	C	152	C	13.7	C	97	C	183	C	400	C	188	C	28.6	C	77.3	C	76.8	C	131	C	113	C	24.5	C		
2,2',3,4',5,6'-HXCB	148	0.507	U	0.548		0.0575	UJ	0.482	UJ	0.643	U	0.935		0.69		0.177	J	0.712		0.546		0.515	U	0.708		0.084	UJ		
2,2',3,4',6,6'-HXCB	150	0.678		0.484		0.0466	U	0.302	J	0.455		1.47		0.716		0.092	U	0.196	J	0.214	J	0.485	U	0.408	U	0.079	U		
2,2',3,5,6,6'-HXCB	152	0.21	J	0.173	U	0.0466	U	0.118	U	0.237	U	0.394	J	0.209	J	0.0542	U	0.078	U	0.091	J	0.254	U	0.124	J	0.0474	U		
2,2',4,4',5,5'-HXCB	153	223	C	214	C	19.7	C	135	C	238	C	506	C	19.72	C	47.4	C	117	C	116	C	196	C	166	C	36.4	C		
2,2',4,4',6,6'-HXCB	155	0.075	J	0.151	U	0.0466	U	0.051	U	0.123	U	0.116	U	0.112	U	0.075	U	0.057	J	0.049	J	0.165	U	0.053	J	0.0474	U		
2,3,3',4,4',5'-HXCB	156	0.00003		20.6	C	24.5	C	2.32	C	15	C	36.1	C	47.5	C	27.2	C	4.59	C	21.4	CJ	12.7	CJ	20.3	C	17.1	C	3.66	C
2,3,3',4,4',6'-HXCB	158	18.5		18.6		1.73		11.3		28.1		42.7		20.8		3.78		11.4		9.58		15.2		13.4		2.92			
2,3,3',4,5,5'-HXCB	159	2.33		1.93		0.169	J	1.26		1.85		5.29		2.53		0.324	J	1.06		1.16		1.76		1.54		0.354	U		
2,3,3',4,5,6'-HXCB	161	0.138	U	0.0943	U	0.0543	U	0.111	U	0.141	U	0.133	U	0.239	U	0.0546	U	0.102	U	0.166	U	0.195	U	0.0905	U	0.0776	U		
2,3,3',4,5,5'-HXCB	162	1.2		1.12		0.107	U	0.635		1.45		2.4		1.49		0.251	U	0.682		0.579		1.07		0.964		0.223	U		
2,3,3',4,5,6'-HXCB	164	14.1		12.8		1.12		8.13		17.4		34.1		15.9		2.44		7.84		7.25		10.4		9.09		1.78			
2,3,3',5,5,6'-HXCB	165	0.469		0.463		0.07	U	0.284	J	0.379	U	0.898		0.718		0.111	J	0.169	J	0.198	U	0.447	U	0.35	J	0.124	J		
2,3',4,4',5,5'-HXCB	167	0.00003		8.41		9.44		0.904	U	5.67		12.1		19.6		1.95		6.42		4.82		7.47		6.95		1.6			
3,3',4,4',5,5'-HXCB	169	0.03		0.52	U	0.28	U	0.08	U	0.33	U	0.539	U	0.906	U	0.33	U	0.1	U	0.23	U	0.23	U	0.367	U	0.38	U	0.11	U
2,2',3,3',4,4',5'-HPCB	170	45.8		44.4		3.83		27.8		47.9		108		55.9		9.2		30.1		24		40.1		34.4		7.37			
2,2',3,3',4,4',6'-HPCB	171	16.8	C	15.2	C	1.41	C	10.3	C	17.6	C	37.5	C	19.6	C	3.2	C	9.05	C	8.73	C	13.5	C	12.8	C	2.51	C		
2,2',3,3',4,5,5'-HPCB	172	9.08		7.89		0.784		4.87		8.73		21.5		9.88		1.74		4.37		4.03		7.32		6.19		1.49			
2,2',3,3',4,5,6'-HPCB	174	46.1		39.7		3.38		27.3		43.6		110		49.7		7.77		23		22.7		35.9		33.6		6.61			
2,2',3,3',4,5,6'-HPCB	175	2.99		2.42		0.266	J	1.64		2.74		6.8		3.36		0.596		1.34		1.25		2.11		2.24		0.456			
2,2',3,3',4,6,6'-HPCB	176	7		5.74		0.557	U	4.24		6.46		15.4		8.02		1.08		3.17		3.28		5.3		5.02		1.04			
2,2',3,3',4,5,6'-HPCB	177	39.6		36.4		3.33		25.6		37.6		85.8		47.2		7.61		20.3		20.8		35		32.1		6.66			
2,2',3,3',5,5',6'-HPCB	178	17		15.4		1.47		10.2		14.5		37.9		20.1		3.62		7.8		8.34		14.8		13		2.79			
2,2',3,3',5,6,6'-HPCB	179	25.8		21.3		1.83		15.3		22		57.4		29.8		4.1		11		12.1		20.2		18.5		3.7			
2,2',3,4,4',5,5'-HPCB	180	102	C	88.3	C	7.83	C	53.1	C	87.1	C	235	C	111	C	18.2	C	48.7	C	45	C	81.5	C	65.7	C	15.5	C		
2,2',3,4,4',5,6'-HPCB	181	0.457		0.447		0.0672	U	0.225	U	0.582	U	0.837	U	0.451		0.0697	U	0.193	U	0.184	J	0.368	U	0.395		0.073	U		
2,2',3,4,4',5,6'-HPCB	182	0.519	U	0.485		0.0633	U	0.289	J	0.409	U	1.03	U	0.708		0.14	J	0.244	J	0.248	J	0.494	U	0.433		0.084	J		
2,2',3,4,4',5',6'-HPCB	183	36.9	C	31.1	C	3.03	C	22.8	C	35.4	C	82.1	C	41.5	C	7.56	C	18.6	C	18.7	C	31.5	C	28.4	C	5.89	C		
2,2',3,4,4',6,6'-HPCB	184	0.17	J	0.145	J	0.0495	U	0.081	J	0.19	U	0.334	U	0.165	U	0.0514	U	0.099	J	0.09	U	0.272	U	0.09	J	0.0474	U		
2,2',3,4,5,6,6'-HPCB	186	0.0505	U	0.0516	U	0.0526	U	0.0505	U	0.202	U	0.107	U	0.172	U	0.056	U	0.0899	U	0.0981	U	0.296	U	0.0619	U	0.0474	U		
2,2',3,4',5,5',6'-HPCB	187	91.8	J	82	J	8.23		57.1	J	80.6		207		109	J	19.1		44.4		46.1		80.2		71.7	J	16.2			
2,2',3,4',5,6,6'-HPCB	188	0.328	J	0.249	J	0.0466	U	0.115	U	0.176	U	0.58	U	0.338	J	0.084	J	0.086	U	0.083	J	0.341	J	0.213	U	0.054	U		
2,3,3',4,4',5,5'-HPCB	189	0.00003		1.84		2.03		0.252	U	1.18	U	2.25		4.45		2.56		0.524		1.82		1.12		1.97		1.74		0.504	U

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Location ID		DIS-01-S	Q	DIS-02-S	Q	DIS-03-S	Q	DIS-04-S	Q	DIS-05-S	Q	DIS-06-S	Q	DIS-07-S	Q	DIS-08-S	Q	DIS-09-S	Q	DIS-09-D	Q	DIS-10-S	Q	DIS-11-S	Q	DIS-12-S	Q		
2,3,3',4,4',5,6-HPCB	190	7.41		7.68		0.672	U	4.95		9.44		18.4		9.09		1.73		5.79		4.81		7.13		6.16		1.39			
2,3,3',4,4',5',6-HPCB	191	1.66		1.48		0.145	U	1.02		1.86		4.1		1.97		0.325	U	0.99		0.886		1.57		1.18		0.271	J		
2,3,3',4,5,5',6-HPCB	192	0.0505	U	0.0544	U	0.0555	U	0.0533	U	0.219	U	0.115	U	0.184	U	0.0599	U	0.0961	U	0.105	U	0.316	U	0.0653	U	0.0474	U		
2,2',3,3',4,4',5,5'-OCCB	194	25		23.3		2.17		13		20.9		60.8		29		5.27		12		11.9		20.3		17.2		4.43			
2,2',3,3',4,4',5,6-OCCB	195	9.57		9.63		0.78		5.93		9.38		22.7		12		2.02		5.7		5.89		9.13		7.89		1.6			
2,2',3,3',4,4',5,6'-OCCB	196	14.3		12.7		1.21		7.76		12.5		33.9		16.7		3.12		6.84		6.98		11.9		10.2		2.27			
2,2',3,3',4,4',6,6'-OCCB	197	4.11	CJ	3.68	CJ	0.407	CUJ	2.75	CJ	4.36	C	9.64	CJ	4.87	CJ	0.914	C	2.14	C	2.31	CJ	3.94	CJ	3.48	CJ	0.88	C		
2,2',3,3',4,5,5',6-OCCB	198	43.6	C	39.9	C	3.64	C	26	C	36.9	C	97.6	C	51.7	C	8.78	C	21.2	C	22	C	37.5	C	33.7	C	7.76	C		
2,2',3,3',4,5',6,6'-OCCB	200	5.91		5.17		0.436		3.49		4.52		13.2		7.01		1.1		2.61		2.62		5		4.29		1.05			
2,2',3,3',5,5',6,6'-OCCB	202	11.8		10.6		0.976		6.39		8.78		23.3		13.1		2.4		5.17		5.34		9.81		8.73		2.05			
2,2',3,4,4',5,5',6-OCCB	203	16.9		17.2		1.49		11.3		16.2		42.2		21.4		3.75		10.1		10.4		16.5		14.5		3.21			
2,2',3,4,4',5,6,6'-OCCB	204	0.054	U	0.0498	U	0.0466	U	0.0469	U	0.148	U	0.116	U	0.174	U	0.049	U	0.0605	U	0.0672	U	0.295	U	0.0481	U	0.0474	U		
2,3,3',4,4',5,5',6-OCCB	205	1.25		1.26		0.113	U	0.874		1.13	U	2.92		1.5		0.304	J	0.772		0.865		1.11		1.11		0.28	U		
2,2',3,3',4,4',5,5',6-NOCB	206	28.4		22.6		2.34		13.7		20.3		52.9		28.2		5.59		11.8		11.8		21.8		18.8		4.5			
2,2',3,3',4,4',5,6,6'-NOCB	207	4.16		3.39		0.35	J	2.03		2.92		8.49		4.33		0.855		1.56		1.7		3.35		2.85		0.691			
2,2',3,3',4,5,5',6,6'-NOCB	208	13.1		9.25		0.998		5.52		7.62		23.2		11.8		2.17		4.45		4.57		9.05		7.66		1.86			
2,2',3,3',4,4',5,5',6,6'-DECB	209	30.9		24.8		2.58		13.7		21.9		65.6		28.3		5.87		12		11.4		23.2		20.9		4.64			
Total PCBs*		4840		4460		385		2950		4810		11100		5420		897		2450		2470		3960		3780		740			
PCB TEQ (0 DL)		0.165		0.181		0.00116		0.114		0.16		0.436		0.252		0.0533		0.112		0.09		0.178		0.147		0.0333			
PCB TEQ (1/2 DL)		0.173		0.185		0.00974		0.12		0.168		0.45		0.257		0.0548		0.115		0.0935		0.184		0.153		0.035			
PCB TEQ (1 DL)		0.181		0.19		0.0183		0.125		0.176		0.464		0.263		0.0564		0.119		0.097		0.19		0.159		0.0367			

\*total PCBs represents the sum of all detected congeners

U-the analyte was analyzed for, but was not detected above the reported sample quantitation limit

J-the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample

UJ-the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

C-see list for co-eluting congeners

DW-dry weight Q-qualifier TEQ-toxicity equivalent DL-detection limit

North Olympic Peninsula Regional Background Validated Data 8/5/2013

Location ID	DUN-01-S	Q	DUN-02-S	Q	DUN-03-S	Q	DUN-04-S	Q	DUN-05-S	Q	DUN-05-D	Q	DUN-06-S	Q	DUN-07-S	Q	DUN-08-S	Q	DUN-09-S	Q	DUN-10-S	Q	DUN-11-S	Q	DUN-12-S	Q	DUN-13-S	Q	PT-01-S	Q
Date/Time	5/6/2013	16:13	5/6/2013	15:09	5/6/2013	10:09	5/6/2013	14:46	5/6/2013	13:46	5/6/2013	13:45	5/6/2013	10:50	5/6/2013	11:10	5/6/2013	16:38	5/6/2013	14:25	5/6/2013	12:10	5/6/2013	15:49	5/6/2013	11:30	5/6/2013	13:28	5/10/2013	14:46
<b>Dioxin/Furan Congeners (ng/)</b>																														
2,3,7,8-TCDD	0.232		0.051	U	0.052	U	0.163	J	0.152	J	0.102	U	0.177	J	0.0478	U	0.099	U	0.045	U	0.0437	U	0.0469	U	0.086	U	0.062	U	0.279	
1,2,3,7,8-PECDD	0.643	J	0.061	U	0.096	U	0.418	J	0.254	J	0.258	U	0.315	J	0.064	U	0.192	J	0.045	U	0.072	U	0.0469	U	0.213	J	0.099	J	1	
1,2,3,4,7,8-HxCDD	0.433	J	0.049	U	0.06	U	0.312	J	0.208	U	0.196	J	0.373	J	0.075	U	0.179	U	0.045	U	0.076	U	0.0469	U	0.221	U	0.065	U	0.567	J
1,2,3,6,7,8-HxCDD	2.25		0.145	U	0.258	U	1.57		0.935	J	1.01		1.02		0.164	U	0.583	J	0.102	U	0.251	U	0.117	U	0.602	J	0.243	U	3.58	
1,2,3,7,8,9-HxCDD	1.62		0.127	J	0.211	U	1.21		0.95	J	0.961		0.905	J	0.204	J	0.504	J	0.108	J	0.21	U	0.094	J	0.464	J	0.213	J	2.23	
1,2,3,4,6,7,8-HPCDD	16.5		0.893	J	1.74		10.8		8.18		7.76		8.96		1.23		6.91		0.779	J	1.54		0.866	J	4.92		2.14		22.8	
OCDD	92.4		5.19		8.55		61.1		46.2		45.8		39.4		6.21		41.9		3.29		8.16		4.31		27		9.61		148	
2,3,7,8-TCDF	1.04		0.098	J	0.126	J	0.662		0.477		0.42		0.404		0.06	U	0.273		0.073	J	0.115	J	0.071	J	0.293		0.142	J	1.19	
1,2,3,7,8-PECDF	0.266	J	0.0462	U	0.068	U	0.161	J	0.13	J	0.14	U	0.0914	U	0.0478	U	0.084	J	0.045	U	0.0437	U	0.0469	U	0.064	J	0.0468	U	0.42	J
2,3,4,7,8-PECDF	0.389	J	0.055	U	0.088	J	0.277	J	0.188	J	0.198	J	0.252	J	0.093	J	0.148	J	0.052	U	0.104	J	0.048	U	0.074	U	0.057	J	0.568	J
1,2,3,4,7,8-HxCDF	0.447	J	0.0462	U	0.06	U	0.312	J	0.231	U	0.222	J	0.297	J	0.055	U	0.13	J	0.045	U	0.059	U	0.0469	U	0.135	U	0.06	J	0.665	J
1,2,3,6,7,8-HxCDF	0.285	J	0.0462	U	0.052	J	0.219	J	0.156	J	0.121	J	0.152	J	0.0478	U	0.098	J	0.045	U	0.0571	U	0.0469	U	0.101	J	0.0468	U	0.367	J
1,2,3,7,8,9-HxCDF	0.068	U	0.0462	U	0.0482	U	0.0481	U	0.0502	U	0.0471	U	0.109	U	0.0478	U	0.0484	U	0.045	U	0.0571	U	0.0469	U	0.0475	U	0.0468	U	0.114	U
2,3,4,6,7,8-HxCDF	0.276	J	0.0462	U	0.055	J	0.193	J	0.143	J	0.114	J	0.142	J	0.0478	U	0.123	U	0.045	U	0.058	U	0.0469	U	0.115	J	0.0468	U	0.394	J
1,2,3,4,6,7,8-HPCDF	3.53		0.234	J	0.349	J	2.52		1.67		1.9		1.71		0.269	U	1.18		0.165	J	0.419	U	0.182	J	0.981		0.448	J	4.95	
1,2,3,4,7,8,9-HPCDF	0.275	J	0.0462	U	0.0482	U	0.11	J	0.16	J	0.149	U	0.106	U	0.0478	U	0.081	J	0.045	U	0.0476	U	0.0469	U	0.06	J	0.0468	U	0.318	J
OCDF	6.61		0.377	U	0.711	J	4		3.5		3.14		3.94		0.563	J	2.32		0.28	U	0.777	J	0.301	U	1.86	J	0.725	J	11.3	
Dx/F TEQ (0 DL)	1.87		0.0353		0.0734		1.27		0.847		0.475		1.02		0.0626		0.493		0.0285		0.0608		0.0283		0.441		0.187		2.69	
Dx/F TEQ (1/2 DL)	1.87		0.119		0.18		1.27		0.872		0.66		1.02		0.146		0.56		0.0986		0.16		0.101		0.515		0.241		2.7	
Dx/F TEQ (1 DL)	1.87		0.204		0.288		1.28		0.896		0.845		1.03		0.229		0.627		0.169		0.259		0.174		0.589		0.295		2.7	
<b>PCB Congeners (ng/kg DW)</b>																														
2-MOCB	4.61		0.731	U	0.833	U	4.18		3.02	J	2.93		2.02	J	1.12	U	1.65		1.21	J	0.981	U	0.569		2.04		0.807		7.6	
3-MOCB	18		7.28		6.8		12.1		15.1		14.6		17		2.9	J	7.66		4.1		7.15		4.79		19.4		5.48		20.7	
4-MOCB	4.17		0.93	U	1.7	U	3.26		3.86	U	3.2		2.91	J	1.59	J	1.85		1.62	J	1.84	J	0.717	U	3.15		1.02		7.38	
2,2'-DICB	6.21		0.499		0.883		4.84		3.5		3.32		3.26		1.94	U	1.79		0.418	U	0.842		0.531		2.03		0.786		10.7	
2,3-DICB	0.224	J	0.201	U	3.36		0.178	J	0.147	U	0.191	U	0.105	U	1.36	U	0.14	U	0.208	U	0.084	U	0.135	U	0.113	U	0.112	U	0.448	
2,3'-DICB	3.47		0.272	J	0.447		2.43		1.97		1.89		2.92		1.22	U	0.884		0.237	J	0.467	U	0.296	J	1.33		0.414		5.09	
2,4-DICB	0.921		0.19	U	0.378	U	0.637		0.529		0.498		0.497		1.26	U	0.266	J	0.197	U	0.311	U	0.128	U	0.751		0.215	J	1.58	
2,4'-DICB	22		1.48	J	0.0924	U	16.4		11.5	J	11.6		11.3		1.13	U	5.46		1.29	J	2.77		1.47		7.88		2.66		30.7	
2,5-DICB	0.883		0.415	U	0.36	U	0.948		0.74		0.767		0.627		1.21	U	0.554		0.344	U	0.365	U	0.364	U	0.589		0.423	U	1.19	
2,6-DICB	0.183	J	0.192	U	0.101	U	0.189	J	0.141	U	0.183	U	0.109	J	1.26	U	0.128	U	0.199	U	0.0794	U	0.124	U	0.102	U	0.106	U	0.381	
3,3'-DICB	36.5		6.07		7.67		22.4		29		29.1		21.8	J	5.7		11.9		4.43		6.92		6.11		18.2		7.05		58.5	
3,4-DICB	4.4	C	1.64	CUJ	8.23	CU	3.04	C	3.14	CUJ	2.41	C	0.102	CU	8.72	CU	1.26	C	0.498	C	5.74	CUJ	0.934	CU	1.93	C	3.38	CUJ	6.61	C
3,5-DICB	0.466	U	0.298	U	0.0994	U	0.265	J	0.282	U	0.295	U	0.633	UJ	1.22	U	0.165	J	0.188	U	0.325	U	0.126	U	0.628	U	0.243	U	0.635	
4,4'-DICB	33.5		2.89		3.65		22.2		15		14.9		13.5		2.2	U	7.64		2.71		4.16		2.43		11.4		4.19		38.8	
2,2',3-TRICB	7.69		0.649		0.752		5.9		4.3		4.17		3.64		1.46	U	1.78		0.532		0.873		0.559		2.92		1.01		10.5	
2,2',4-TRICB	9.56		0.633		1.14		7.28		4.56	J	5		4.87	J	0.527		2.59		0.582		1.18		0.57		4.03		1.21		14.4	
2,2',5-TRICB	16.5	C	0.931	CJ	1.92	C	12.3	C	7.28	CJ	9.05	C	8.23	CJ	1.01	C	3.36	CJ	0.829	CJ	1.79	C	1.19	C	5.95	C	1.89	C	23.5	C
2,2',6-TRICB	1.5		0.13	U	0.276	J	1.31		0.781		0.78		0.94		0.102	J	0.49		0.117	J	0.275	J	0.125	J	0.615		0.227	J	2.58	
2,3,3'-TRICB	73.2	C	6.75	C	9.69	C	50.9	C	33.8	C	35.5	C	38.2	C	4.78	C	18.7	C	5.72	C	9.94	C	5.59	C	28.5	C	10.2	C	91.9	C
2,3,4-TRICB	23.9	C	1.69	C	2.56	C	16.8	C	12.1	C	12.1	C	11.4	C	1.4	C	5.64	C	1.43	C	2.52	C	1.58	C	8.14	C	2.63	C	30.4	C
2,3,4'-TRICB	18.9		1.62		2.16		13.6		9.1		9.85		9.13		1.16		4.59		1.29		2.25		1.55		6.94		2.47		22.5	
2,3,5-TRICB	0.0836	U	0.0786	U	0.0482	U	0.101	U	0.0617	U	0.0645	U	0.0489	U	0.0478	U	0.0791	U	0.0622	U	0.0437	U	0.0842	U	0.0475	U	0.0468	U	0.181	U
2,3,6-TRICB	0.24	J	0.0571	UJ	0.0482	UJ	0.15	J	0.108	J	0.139	J	0.1	U	0.068	J	0.058	J	0.0514	U	0.051	UJ	0.0598	U	0.076	J	0.0468</			

North Olympic Peninsula Regional Background Validated Data 8/5/2013

Location ID	DUN-01-S	Q	DUN-02-S	Q	DUN-03-S	Q	DUN-04-S	Q	DUN-05-S	Q	DUN-05-D	Q	DUN-06-S	Q	DUN-07-S	Q	DUN-08-S	Q	DUN-09-S	Q	DUN-10-S	Q	DUN-11-S	Q	DUN-12-S	Q	DUN-13-S	Q	PT-01-S	Q
3,4,5-TRICB	0.354	J	0.128	J	0.305	J	0.297	J	0.214	J	0.228	J	0.283	J	0.06	U	0.092	J	0.078	J	0.201	J	0.0734	U	0.426		0.171	U	0.44	
3,4,5-TRICB	0.625		0.0691	U	0.089	U	0.418		0.289	J	0.278	J	0.348	J	0.0478	U	0.174	J	0.0547	U	0.064	J	0.08	J	0.265	J	0.088	J	0.758	
2,2,3,3'-TECB	26.5	C	1.68	C	2.75	C	21.2	C	12.7	C	12.9	C	14.2	C	1.56	C	6.08	C	1.66	C	2.86	C	1.6	C	8.55	C	3.25	C	38.9	C
2,2,3,4'-TECB	13.3		1		1.67		10.4		6.21		6.17		7		0.782		3.39		0.898		1.58		0.966		4.86		1.63		17.5	
2,2,3,5'-TECB	1.34		0.149	U	0.169	U	1.1		0.711		0.678		0.873		0.125	U	0.3	U	0.104	U	0.166	U	0.111	J	0.585		0.172	J	1.92	
2,2,3,5'-TECB	47.3	C	3.71	C	5.33	C	37.4	C	24.3	C	23.4	C	24.9	C	3.05	C	11.8	C	3.33	C	5.85	C	3.42	C	18.7	C	6.27	C	65.2	C
2,2,3,6'-TECB	4.78	C	0.363	CJ	0.604	C	4.21	C	2.38	C	2.11	C	3.07	C	0.358	CJ	1.29	CU	0.392	C	0.695	C	0.356	CJ	2.14	C	0.681	C	6.96	C
2,2,3,6'-TECB	1.74		0.15	U	0.219	J	1.5		0.84		0.794		1.11		0.152	J	0.387	U	0.127	U	0.193	J	0.117	J	0.548		0.209	J	2.85	
2,2,4,5'-TECB	7.9		0.575		0.911		6.26		3.98		3.66		4.47		0.436		1.88		0.47		0.868		0.081	U	2.72		0.899		10.3	
2,2,4,5'-TECB	31.7	C	2.45	C	4.07	C	25.1	C	15.8	C	15.1	C	17.5	C	1.96	C	8.37	C	2	C	4.05	C	2.19	C	11.9	C	4.32	C	42.7	C
2,2,4,6'-TECB	4.24	C	0.287	CJ	0.568	C	3.4	C	2.16	C	2.07	C	2.63	C	0.276	CJ	1.13	C	0.262	CJ	0.569	C	0.249	CJ	1.56	C	0.54	C	6.95	C
2,2,5,5'-TECB	49.4		4.06		5.83		38.9		27.1		26.6		26.6		3.16		12.3		3.51		5.97		3.46		18.5		6.35		70.4	
2,2,6,6'-TECB	0.091	J	0.0742	U	0.0482	U	0.083	U	0.0502	U	0.0549	U	0.05	U	0.0478	U	0.057	U	0.0618	U	0.0437	U	0.0636	U	0.0475	U	0.0468	U	0.14	U
2,3,3,4'-TECB	1.23		0.128	U	0.132	U	0.757		0.524		0.491		0.438		0.0822	U	0.254	J	0.0756	U	0.106	U	0.0972	U	0.138	U	0.135	J	1.2	
2,3,3,4'-TECB	36.4		2.43		3.95		23.7		16		16.6		16.6		1.96		7.79		2.07		3.97		2.28		10.8		4.2		38.4	
2,3,3,5'-TECB	0.346	J	0.12	U	0.0884	U	0.284	J	0.175	J	0.187	J	0.217	J	0.0796	U	0.093	J	0.0706	U	0.103	U	0.0917	U	0.165	U	0.0707	U	0.363	J
2,3,3,5'-TECB	0.327	J	0.123	U	0.0893	U	0.223	J	0.121	J	0.13	U	0.169	J	0.0804	U	0.0895	U	0.0725	U	0.104	U	0.0952	U	0.135	U	0.0713	U	0.329	J
2,3,3,6'-TECB	4.29	C	0.29	CJ	0.483	C	3.38	C	2.11	C	2.16	C	2.33	C	0.304	CJ	1.09	C	0.281	CJ	0.533	C	0.262	CJ	1.57	C	0.647	C	5.92	C
2,3,4,4'-TECB	21.3		1.68		2.45		14.2		9.42		9.77		9.94		1.23		4.9		1.47		2.67		1.58		6.7		2.62		22	
2,3,4,5'-TECB	132	C	10.1	C	15.4	C	90.8	C	62.3	C	62	C	63.3	C	8.5	C	30.9	C	8.53	C	16	C	9.16	C	43.2	C	17.1	C	146	C
2,3,4,5'-TECB	3.1		0.246	J	0.401		2.09		1.4		1.42		1.52		0.172	J	0.816		0.215	J	0.399		0.246	J	1.08		0.446		3.28	
2,3,4,6'-TECB	19.9		1.53		2.31		10.3		10.1		9.93		10.8		1.36		5.06		1.38		2.52		0.058	U	7.53		2.68		26.5	
2,3,4,4'-TECB	78.3		5.4		8.46		51.8		34.9		34.7		37.1		4.78		18.3		4.48		8.71		4.96		24.3		9.35		83.5	
2,3,4,5'-TECB	2.47		0.198	J	0.32	J	1.77		1.05		1.1		1.17		0.157	U	0.596		0.183	J	0.317	U	0.194	J	0.808		0.342	J	2.65	
2,3,4,5'-TECB	0.767		0.116	U	0.123	J	0.56		0.38	J	0.354	J	0.413		0.0752	U	0.225	J	0.079	J	0.097	U	0.0893	U	0.527		0.127	J	0.83	
2,3,5,5'-TECB	0.91		0.109	U	0.145	J	0.747		0.417		0.421		0.474		0.0737	U	0.253	J	0.066	J	0.116	J	0.0874	U	0.395		0.154	J	1.17	
2,3,5,6'-TECB	0.0735	U	0.096	U	0.0522	U	0.0824	U	0.0618	U	0.0551	U	0.0626	U	0.0701	U	0.0565	U	0.0669	U	0.0616	U	0.0604	U	0.0482	U	0.0468	U	0.128	U
3,3,4,4'-TECB	14.5		1.29		1.71		10.6		6.23		6.52		6.26	J	0.993		3.51		1.02		1.87		0.955		4.72		1.89		15.2	
3,3,4,5'-TECB	0.137	U	0.117	U	0.0865	U	0.135	U	0.1	U	0.123	U	0.137	U	0.0779	U	0.0846	U	0.0686	U	0.101	U	0.09	U	0.131	U	0.0692	U	0.233	U
3,3,4,5'-TECB	1.3		0.101	U	0.325	U	1.01		0.656		0.677		0.613		0.0663	U	0.328	J	0.096	J	0.329	J	0.105	J	0.563		0.157	J	1.98	
3,3,5,5'-TECB	0.131	U	0.111	U	0.0789	U	0.129	U	0.0956	U	0.118	U	0.125	U	0.0711	U	0.0791	U	0.0655	U	0.0917	U	0.0841	U	0.119	U	0.0631	U	0.218	U
3,4,4,5'-TECB	0.564		0.118	U	0.079	J	0.426		0.247	J	0.276	J	0.315	J	0.0659	U	0.144	J	0.0763	U	0.103	U	0.0884	U	0.277	U	0.078	U	0.572	
2,2,3,3,4'-PECB	10.3		0.409	UJ	0.811	J	8.15		3.28	J	5.04		3.06	J	0.376	UJ	2.39		0.402	J	0.581	J	0.437	J	2.07		0.815	J	14.5	
2,2,3,3,5'-PECB	58	C	3.71	C	6.48	C	45	C	26.6	C	27.9	C	26.6	C	3.6	C	15.1	C	3.39	C	6.48	C	3.46	C	20.8	C	7.3	C	77.1	C
2,2,3,3,6'-PECB	14.7		0.89		1.5		12.1		6.95		7.36		6.56		0.969		3.35		0.858		1.57		0.901		4.96		1.73		24.3	
2,2,3,4,4'-PECB	19.6	C	1.27	C	2.05	C	14.3	C	8.98	C	9.44	C	8.74	C	1.11	C	4.66	C	1.19	C	2.11	C	1.24	C	6.39	C	2.37	C	25.8	C
2,2,3,4,5'-PECB	55.3	C	3.62	C	6.21	C	41.3	C	26	C	27.3	C	24.6	C	3.9	C	13.7	C	3.44	C	6.15	C	3.42	C	17.6	C	6.83	C	80.8	C
2,2,3,4,6'-PECB	9.27	C	0.616	C	1.02	C	7.69	C	4.41	C	4.46	C	4.61	C	0.592	C	2.22	C	0.498	C	1.05	C	0.54	C	3.28	C	1.07	C	13.8	C
2,2,3,4,6'-PECB	0.925	U	0.0952	U	0.081	U	0.725		0.389	J	0.423		0.364	U	0.07	J	0.216	J	0.103	U	0.127	J	0.0889	U	0.24	U	0.115	U	1.19	
2,2,3,4,5'-PECB	80.9	C	5.31	C	9.13	C	61.1	C	38.1	C	39.7	C	38.8	C	5.14	C	20.7	C	4.92	C	9.57	C	4.78	C	28.7	C	10.7	C	114	C
2,2,3,5,5'-PECB	14.3		0.976		1.66		11		6.67		7.07		6.69		0.901		3.6		0.863		1.68	U	0.878		4.92		1.82		20.8	
2,2,3,5,6'-PECB	47.8	C	3.12	C	5.56	C	39.6	C	23.6	C	24.3	C	23	C	3.16	C	11.5	C	2.93	C	5.53	C	2.85	C	16.8	C	5.93	C	78.1	C
2,2,3,5,6'-PECB	0.501		0.0992	U	0.0573	U	0.322	J	0.162	J	0.172	J	0.224	U	0.0742	U	0.121	U	0.108	U	0.0961	U	0.0947	U	0.132	U	0.062	U	0.51	
2,2,3,6,6'-PECB	0.367	U	0.0776	U	0.053	J	0.369	J	0.162	U	0.177	J	0.194	J	0.0478	U	0.12	U	0.0686	U	0.054	J	0.0619	U	0.14	J	0.059	U	0.55	
2,2,4,5,6'-PECB	0.84		0.0798	U	0.103	U	0.927		0.381	J	0.393	J	0.511		0.064	U	0.254	U	0.0864	U	0.116	J	0.0784	U	0.331	U	0.12	J	1.28	
2,2,4,6,6'-PECB	0.0705	U	0.0727	U	0.0482	U	0.0735	U	0.0541	U	0.0501	U	0.0489	U	0.0483	U	0.0543	U	0.0624	U	0.0437	U	0.0597	U	0.0475	U	0.0468	U	0.108	U
2,3,3,4,4'-PECB	49.7		3.31		5.33		34.4		23.1		24		21.6		2.99		11.8		2.78		5.38		2.99		15.2		5.77		59.8	
2,3,3,4,5'-PECB	0.139	U	0.0901	U	0.0596	U	0.121	U	0.08	U	0.102	U	0.0888	U	0.0711	U	0.126	U	0.0718	U	0.0944	U	0.0874	U	0.0929	U	0.0634	U	0.24	U
2,3,3,4,5'-PECB	3.56	C	0.275	CJ	0.428	C	2.52	C	1.62	C	1.74	C	1.65	C	0.244	CJ	0.888	C	0.239	CJ	0.454	C	0.238	CJ	1.12	C	0.435	CU	4.95	C
2,3,3,4,6'-PECB	8.54		0.656		1.24	U	6.24		3.87		3.97		4.36		0.605		2.49		0.523		1.11		0.632	U	3.16		1.23		11.3	
2,3,3,4,6'-PECB	90.4	C	5.57	C	9.31	C	68.4	C	42.9	C	46	C	39.8	C	5.															

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Location ID	DUN-01-S	Q	DUN-02-S	Q	DUN-03-S	Q	DUN-04-S	Q	DUN-05-S	Q	DUN-05-D	Q	DUN-06-S	Q	DUN-07-S	Q	DUN-08-S	Q	DUN-09-S	Q	DUN-10-S	Q	DUN-11-S	Q	DUN-12-S	Q	DUN-13-S	Q	PT-01-S	Q
2,3',4,5,5'-PECB	0.706		0.066	J	0.076	U	0.556		0.315	U	0.36	J	0.322	J	0.0478	U	0.204	J	0.0665	U	0.0582	U	0.064	U	0.27	UJ	0.091	J	0.868	U
2,3',4,5,6'-PECB	0.081	U	0.0685	U	0.0482	U	0.122	U	0.0586	U	0.0792	U	0.0514	U	0.0504	U	0.0855	U	0.0742	U	0.0654	U	0.0667	U	0.0475	U	0.0468	U	0.146	U
2',3,3',4,5'-PECB	1.05		0.102	U	0.103	J	0.918	U	0.441		0.577		0.485		0.086	U	0.285	J	0.0812	U	0.124	U	0.0933	U	0.348	J	0.127	J	1.52	
2',3,4,4',5'-PECB	2.35		0.151	U	0.2	J	1.57		0.754		0.992		0.929		0.115	J	0.56		0.098	J	0.267	U	0.118	J	0.74		0.252	U	2.54	
3,3',4,4',5'-PECB	0.961		0.129	U	0.103	J	0.649		0.399	J	0.454		0.456		0.0853	U	0.282	J	0.102	U	0.12	U	0.1	U	0.488		0.18	J	0.803	
3,3',4,5,5'-PECB	0.143	U	0.0925	U	0.0589	U	0.172	J	0.0821	U	0.104	U	0.0878	U	0.0702	U	0.125	U	0.0738	U	0.0933	U	0.0865	U	0.0919	U	0.0627	U	0.251	U
2,2',3,3',4,4'-HXCBC	19.9	C	1.24	C	2.31	C	14.3	C	8.68	C	9.41	C	8.61	C	1.24	C	4.63	C	0.852	C	2.12	C	1.12	C	6.35	C	2.23	C	26.7	C
2,2',3,3',4,5'-HXCBC	123	C	8.04	C	19.5	C	93	C	56.1	C	60.8	C	78.1	C	10.8	C	30.8	C	6.87	C	18.5	C	7.07	C	54.9	C	20.7	C	155	C
2,2',3,3',4,5'-HXCBC	8.14		0.499	U	0.927		6.36		3.58		3.85		3.36		0.532	U	2		0.422		0.807		0.46	U	2.6		0.949		10.5	
2,2',3,3',4,6'-HXCBC	0.912		0.137	U	0.129	J	0.826		0.435		0.518		0.472		0.111	J	0.297	J	0.113	U	0.115	J	0.0992	U	0.267	J	0.116	J	1.48	
2,2',3,3',4,6'-HXCBC	27.4		1.39		2.68		22.2		12.2		13.7		12		1.71		5.98		1.34		2.44		1.38		8.11		2.92		38.5	
2,2',3,3',5,5'-HXCBC	2.12		0.156	J	0.272	U	1.75		0.856		1.07		1.01		0.13	U	0.553	U	0.125	U	0.238	U	0.151	U	0.748		0.286	J	2.43	
2,2',3,3',5,6'-HXCBC	4.16	C	0.156	CJ	1.17	C	3.36	C	1.73	C	2.01	C	4.28	C	0.631	CU	0.792	C	0.128	CU	0.939	CU	0.211	CU	3.3	C	1.17	CU	5.94	C
2,2',3,3',5,6'-HXCBC	28.5	C	1.78	C	2.99	C	27.1	C	14	C	16.5	C	13	C	1.58	C	8.13	C	1.45	C	3.14	C	1.69	C	9.22	C	3.36	C	38.7	C
2,2',3,3',6,6'-HXCBC	8.26		0.432		0.758		7.4		3.47		4.3		3.37		0.398	U	2.04		0.408		0.71		0.0647	U	2.53		0.952		12.4	
2,2',3,4,4',5'-HXCBC	3.8		0.245	U	0.425		2.61		1.87		1.99		1.56		0.244	U	1.05		0.229	J	0.447		0.217	J	1.3	U	0.415		5.07	
2,2',3,4,4',6'-HXCBC	1.85	C	0.126	CU	0.201	CU	1.6	C	0.776	C	0.802	C	0.819	C	0.114	CU	0.498	C	0.104	CU	0.212	CJ	0.0879	CU	0.559	C	0.224	CU	2.31	C
2,2',3,4,5,5'-HXCBC	11.4		0.525		1.13		9.15		5.46		6.23		5.22		0.755		2.41		0.524		1.16		0.567	U	2.84		1.22		15.4	
2,2',3,4,5,6'-HXCBC	0.177	U	0.14	U	0.0702	U	0.203	U	0.101	U	0.168	U	0.112	U	0.0827	U	0.169	U	0.116	U	0.0768	U	0.0949	U	0.0631	U	0.0745	U	0.316	U
2,2',3,4,5,6'-HXCBC	3.6		0.183	U	0.38	U	2.95		1.66		1.98		0.0707	U	0.0556	U	0.95		0.129	J	0.0726	U	0.243	J	0.969		0.398		5.01	
2,2',3,4,6,6'-HXCBC	0.088	U	0.0944	U	0.0531	U	0.11	U	0.068	U	0.087	U	0.0582	U	0.0478	U	0.0649	U	0.0719	U	0.0597	U	0.0685	U	0.0475	U	0.0468	U	0.138	U
2,2',3,4,5,5'-HXCBC	17.9	J	1.26		2.65		15.6		8.31	J	9.55		9.46		1.43		5.48	J	1.15		2.78		1.33		6.5		2.77		22.5	
2,2',3,4,5,6'-HXCBC	69.7	C	3.8	C	7.98	C	60.5	C	31.3	C	35.6	C	32.6	C	4.23	C	17.7	C	3.49	C	7.26	C	3.69	C	23.4	C	8.53	C	95.4	C
2,2',3,4,5,6'-HXCBC	0.522		0.121	U	0.0668	U	0.518		0.161	UJ	0.395	J	0.114	UJ	0.0575	U	0.163	U	0.0924	U	0.075	UJ	0.0847	U	0.052	UJ	0.0517	UJ	0.537	U
2,2',3,4,6,6'-HXCBC	0.211	U	0.089	U	0.0523	U	0.245	J	0.085	J	0.101	U	0.145	U	0.0478	U	0.069	J	0.0677	U	0.0587	U	0.0654	U	0.072	U	0.0468	U	0.304	J
2,2',3,5,6,6'-HXCBC	0.08	U	0.0855	U	0.0482	U	0.1	U	0.0616	U	0.0788	U	0.066	U	0.0478	U	0.0587	U	0.0651	U	0.0542	U	0.0619	U	0.048	U	0.0468	U	0.126	J
2,2',4,4',5,5'-HXCBC	105	C	7.09	C	12.6	C	82.3	C	48.9	C	52.9	C	50.1	C	7.06	C	26.6	C	5.85	C	11.8	C	5.89	C	36.5	C	13.5	C	126	C
2,2',4,4',6,6'-HXCBC	0.069	U	0.0733	U	0.0482	U	0.0837	U	0.0502	U	0.0631	U	0.0489	U	0.0478	U	0.0484	U	0.0538	U	0.0493	U	0.055	U	0.052	U	0.0468	U	0.104	U
2,3,3',4,4',5'-HXCBC	12.1	C	0.667	CJ	1.23	C	8.8	C	5.43	C	5.9	C	5.01	C	0.678	CJ	2.9	C	0.601	CJ	1.12	C	0.654	CJ	3.72	C	1.39	C	14.4	C
2,3,3',4,4',6'-HXCBC	8.93		0.547		0.961		7.04		4.08		4.56		4.01		0.528		2.19		0.427		0.931	U	0.483		2.6		1.11		12	
2,3,3',4,5,5'-HXCBC	1.08		0.093	U	0.096	J	0.861		0.439		0.5		0.42	U	0.065	U	0.299	U	0.0768	U	0.1	J	0.0663	U	0.326	J	0.116	U	1.16	
2,3,3',4,5,6'-HXCBC	0.119	U	0.0944	U	0.0482	U	0.137	U	0.0679	U	0.113	U	0.0761	U	0.056	U	0.115	U	0.0779	U	0.052	U	0.0644	U	0.0475	U	0.0504	U	0.212	U
2,3,3',4,5,5'-HXCBC	0.615		0.0961	U	0.056	J	0.34	J	0.221	J	0.195	J	0.221	U	0.0609	U	0.152	J	0.0794	U	0.0565	U	0.0671	U	0.207	J	0.06	U	0.573	U
2,3,3',4,5,6'-HXCBC	6.67		0.308	J	0.642		5.18		2.95		3.24		3		0.425		1.47		0.29	U	0.606		0.283	J	1.88		0.673		8.22	
2,3,3',5,5,6'-HXCBC	0.262	J	0.107	U	0.0556	U	0.254	J	0.0773	U	0.129	U	0.089	U	0.0656	U	0.137	U	0.0886	U	0.0609	U	0.0771	U	0.069	U	0.0591	U	0.29	J
2,3',4,4',5,5'-HXCBC	4.93		0.286	J	0.544		3.39		2.17		2.31		2.09		0.297	U	1.23		0.231	J	0.548		0.295	J	1.46		0.533		5.75	
3,3',4,4',5,5'-HXCBC	0.118	U	0.0955	U	0.0505	U	0.149	U	0.083	U	0.141	U	0.0834	U	0.0583	U	0.125	U	0.0805	U	0.0559	U	0.0666	U	0.126	U	0.0559	U	0.217	U
2,2',3,3',4,4',5'-HPCBC	25.1		1.04	J	2.54		19.8		10.9		12		11.7		1.51	U	6.08		0.886		2.55		1.1		7.51		2.85	U	26.8	
2,2',3,3',4,4',6'-HPCBC	9.29	C	0.485	C	0.835	C	7.42	C	3.96	C	5.01	C	3.97	C	0.483	C	2.07	C	0.36	CJ	0.84	C	0.396	CU	2.32	C	0.944	C	9.8	C
2,2',3,3',4,5,5'-HPCBC	4.71		0.214	J	0.436		3.73		2.08		2.58		1.91		0.224	U	1.07		0.179	J	0.464		0.21	U	1.38		0.443		4.64	
2,2',3,3',4,5,6'-HPCBC	24.3		0.866		2.05		19.1		10.6		13		9.82		1.17		5.19		0.974		1.99		0.906		6.2		2.09		25	
2,2',3,3',4,5,6'-HPCBC	1.54		0.111	U	0.171	U	1.36		0.644		0.769		0.651		0.068	U	0.341	U	0.0939	U	0.151	J	0.109	U	0.417		0.172	U	1.59	
2,2',3,3',4,6,6'-HPCBC	3.24		0.157	J	0.34	U	2.96		1.41		1.74		1.44		0.186	J	0.713		0.153	J	0.331	J	0.152	U	0.874		0.324	J	3.63	
2,2',3,3',4,5,6'-HPCBC	21.3		0.992	U	2.17		16.7		9.3		11.1		9.44		1.05		5.18		0.908		1.99		0.986		5.98		2.03		21.4	
2,2',3,3',5,5,6'-HPCBC	8.23		0.42	U	0.781		6.87		3.58		4.39		3.85		0.461		2.04	U	0.437		0.838	U	0.481	U	2.57		0.899		8.91	
2,2',3,3',5,6,6'-HPCBC	11.1		0.542		1.04		10		4.86		6.14		5.03		0.633		2.76		0.472		1.01		0.584		3.1		1.15		13.2	
2,2',3,4,4',5,5'-HPCBC	48.5	C	2.18	CJ	5.18	C	39.1	C	22.4	C	24.9	C	22.9	C	3.12	C	12.1	C	1.97	C	5.03	C	2.17	C	15.1	C	5.84	C	54.2	C
2,2',3,4,4',5,6'-HPCBC	0.253	J	0.115	U	0.0761	U	0.136	U	0.0719	U	0.126	U	0.075	U	0.0718	U	0.0999	U	0.0974	U	0.0907	U	0.084	U	0.0675	U	0.0684	U	0.28	J
2,2',3,4,4',5,6'-HPCBC	0.303	J	0.111	U	0.0711	U	0.232	J	0.091	J	0.121	U	0.099	J	0.0671	U	0.0933	U	0.0939	U	0.0847	U	0.0784	U	0.14	J	0.0639			

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Location ID	DUN-01-S	Q	DUN-02-S	Q	DUN-03-S	Q	DUN-04-S	Q	DUN-05-S	Q	DUN-05-D	Q	DUN-06-S	Q	DUN-07-S	Q	DUN-08-S	Q	DUN-09-S	Q	DUN-10-S	Q	DUN-11-S	Q	DUN-12-S	Q	DUN-13-S	Q	PT-01-S	Q
2,3,3',4,4',5,6-HPCB	4.62		0.259	U	0.502		3.63		2.29		2.55		2.15		0.271	J	1.09		0.23	J	0.502		0.228	J	1.4		0.509		5.01	
2,3,3',4,4',5',6-HPCB	0.921		0.088	U	0.119	U	0.693		0.407		0.515		0.452	U	0.0547	U	0.234	J	0.0747	U	0.081	J	0.0662	U	0.252	J	0.073	U	1.02	
2,3,3',4,5,5',6-HPCB	0.103	U	0.0977	U	0.0641	U	0.116	U	0.0612	U	0.107	U	0.0609	U	0.0605	U	0.0876	U	0.0829	U	0.0764	U	0.0737	U	0.0569	U	0.0576	U	0.157	U
2,2',3,3',4,4',5,5'-OCCB	13.2		0.538		1.59		11		5.65		6.15		6.44		0.849		3.24		0.512		1.35		0.593		4.17		1.75		14	
2,2',3,3',4,4',5,6-OCCB	5.78		0.261	J	0.637		4.67		2.54		2.65		2.7		0.386		1.53		0.272	J	0.583		0.303	U	1.67		0.752	U	5.63	
2,2',3,3',4,4',5,6'-OCCB	7.95		0.292	J	0.72		6.52		3.24		3.51		3.3		0.336	J	1.85		0.27	J	0.619	U	0.277	U	2.28		0.578		7.91	
2,2',3,3',4,4',6,6'-OCCB	2.06	CJ	0.125	CJ	0.0608	CU	1.88	CJ	0.807	CJ	1.14	CJ	0.555	C	0.119	CJ	0.594	CJ	0.142	CJ	0.182	CJ	0.129	CU	0.501	CUJ	0.18	CU	2.47	CJ
2,2',3,3',4,5,5',6-OCCB	22.1	C	0.968	C	1.83	C	17.1	C	9.2	C	10.4	C	9.42	C	1.14	C	5.22	C	0.839	C	1.84	C	0.966	C	6.3	C	1.76	C	22.2	C
2,2',3,3',4,5',6,6'-OCCB	2.83		0.115	U	0.265	J	2.49		1.2		1.35		1.19		0.136	J	0.736		0.125	U	0.222	J	0.126	J	0.863		0.24	U	2.86	
2,2',3,3',5,5',6,6'-OCCB	5.21		0.292	J	0.584	U	4.32		2.33		2.49		2.7		0.36	J	1.45		0.235	U	0.617		0.296	U	1.78		0.828		5.92	
2,2',3,4,4',5,5',6-OCCB	9.84		0.378		0.822		7.49		4.47		5.11		4.12		0.486		2.57		0.398		0.797		0.402		2.92		0.704		10.6	
2,2',3,4,4',5,6,6'-OCCB	0.0905	U	0.0974	U	0.061	U	0.109	U	0.0559	U	0.093	U	0.0607	U	0.06	U	0.0635	U	0.0752	U	0.0617	U	0.0598	U	0.0514	U	0.0618	U	0.127	U
2,3,3',4,4',5,5',6-OCCB	0.651		0.105	U	0.089	J	0.623		0.344	J	0.387	J	0.397		0.0849	U	0.161	U	0.0913	U	0.0652	U	0.0838	U	0.269	J	0.082	U	0.793	
2,2',3,3',4,4',5,5',6-NOCB	11.7		0.608		1.22		8.93		5.02		6.39		4.96		0.719	U	3.01		0.52		1.02		0.623		3.86		1.21		18.9	
2,2',3,3',4,4',5,6,6'-NOCB	1.75		0.117	U	0.201	J	1.28		0.743		0.815		0.73		0.107	U	0.526		0.106	J	0.132	U	0.108	U	0.578		0.198	U	2.36	
2,2',3,3',4,5,5',6,6'-NOCB	4.51		0.23	J	0.439		3.42		1.78		2.32		1.84		0.261	J	1.14		0.18	J	0.457		0.213	J	1.44		0.475		7.31	
2,2',3,3',4,4',5,5',6,6'-DECB	11.2		0.592		1.24		9.39		4.67		6.74		4.92		0.952		3.04		0.501	U	1.17		0.582		3.73		1.52	U	23.3	
Total PCBs*	2270		155		262		1720		1070		1150		1110		138		560		137		261		137		787		281		2900	
PCB TEQ (0 DL)	0.103		0.000489		0.0111		0.0698		0.043		0.0487		0.0486		0.000416		0.0299		0.000398		0.000749		0.000406		0.0509		0.0188		0.0885	
PCB TEQ (1/2 DL)	0.105		0.00839		0.0118		0.0721		0.0443		0.0508		0.0499		0.00557		0.0317		0.00672		0.00761		0.00642		0.0528		0.0197		0.0918	
PCB TEQ (1 DL)	0.107		0.0163		0.0126		0.0743		0.0455		0.0529		0.0511		0.0107		0.0336		0.013		0.0145		0.0124		0.0548		0.0205		0.0951	

\*total PCBs represents the sum of all PCBs  
 U-the analyte was analyzed for  
 J-the analyte was positively identified  
 UJ-the analyte was not detected  
 C-see list for co-eluting congeners  
 DW-dry weight Q-qualifier



North Olympic Peninsula Regional Background Validated Data 8/5/2013

Location ID	PT-02-S	Q	PT-03-S	Q	PT-04-S	Q	PT-05-S	Q	PT-06-S	Q	PT-07-S	Q	PT-08-S	Q	PT-09-S	Q	PT-10-S	Q	SEQ-01-S	Q	SEQ-02-S	Q	SEQ-03-S	Q	SEQ-03-D	Q	SEQ-04-S	Q	SEQ-05-S	Q	
Date/Time	5/10/2013	10:35	5/10/2013	13:07	5/10/2013	10:08	5/10/2013	11:15	5/10/2013	9:09	5/10/2013	11:58	5/10/2013	14:11	5/10/2013	9:48	5/10/2013	11:33	5/9/2013	11:41	5/9/2013	9:36	5/9/2013	11:04	5/9/2013	11:04	5/9/2013	10:11	5/9/2013	8:57	
<b>Dioxin/Furan Congeners (ng/</b>																															
2,3,7,8-TCDD	0.367		0.338		0.245	U	0.482		0.155	U	0.055	U	0.53		0.052	U	0.306		0.239		0.236		0.216		0.22		0.173	J	0.181	J	
1,2,3,7,8-PECDD	1.19		1.44		0.644	J	1.55		0.458	J	0.113	J	1.59		0.173	J	1.23		0.979	J	0.499	J	0.831	J	0.842	J	0.637	J	0.515	J	
1,2,3,4,7,8-HxCDD	0.848	J	1.1		0.521	J	1.59		0.301	J	0.099	U	0.912		0.137	U	0.8	J	1.03		0.429	J	0.764	U	0.78	J	0.511	J	0.435	J	
1,2,3,6,7,8-HxCDD	4.61		6.12		2.56		5.53		1.85		0.288	J	6.75		0.466	J	5.57		3.82		1.89		2.81		3.04		1.97		1.39		
1,2,3,7,8,9-HxCDD	3.68		3.96		1.95		4.04		1.49		0.2	U	4.55		0.415	J	3.43		4.19		1.44		2.47		2.61		1.78		1.37		
1,2,3,4,6,7,8-HPCDD	30.2		33.5		18.2		32.6		14.7		1.38		36.9		3.14		35.6		36.5		20.8		32.6		36.5		24.2		14.8		
OCDD	184		204	J	116		179		83.3		7.89		215		16.4		250		251		148		210		251		166		96.2		
2,3,7,8-TCDF	1.76		1.35		1.16		1.38		0.76	U	0.097	U	1.56		0.174	J	1.39		1.31		0.691		1.04		0.929		0.78		0.545		
1,2,3,7,8-PECDF	0.501	J	0.421	J	0.293	J	0.721	J	0.199	J	0.0499	U	0.565	J	0.0476	U	0.453	J	0.486	J	0.228	J	0.255	J	0.349	J	0.252	J	0.232	J	
2,3,4,7,8-PECDF	0.776	J	0.742	J	0.469	J	0.924	J	0.356	J	0.117	J	0.832	J	0.112	U	0.765	U	0.633	J	0.347	J	0.526	J	0.574	J	0.322	J	0.386	J	
1,2,3,4,7,8-HxCDF	0.763	J	0.66	J	0.476	J	1.48		0.346	U	0.049	U	1.08		0.103	J	1.02		0.835	U	0.426	J	0.541	J	0.671	J	0.378	U	0.379	J	
1,2,3,6,7,8-HxCDF	0.515	J	0.539	J	0.338	J	1.1		0.241	J	0.068	U	0.685	J	0.076	J	0.56	J	0.493	J	0.216	J	0.344	J	0.374	J	0.267	J	0.231	J	
1,2,3,7,8,9-HxCDF	0.053	U	0.136	U	0.057	U	0.661	J	0.0487	U	0.0482	U	0.129	U	0.0476	U	0.137	U	0.109	J	0.061	J	0.114	U	0.05	J	0.0938	U	0.058	U	
2,3,4,6,7,8-HxCDF	0.504	J	0.608	J	0.292	J	0.896	J	0.222	J	0.086	U	0.683	J	0.094	U	0.53	J	0.556	U	0.307	J	0.331	J	0.383	J	0.303	J	0.283	J	
1,2,3,4,6,7,8-HPCDF	6.78		7.41		3.67		6.72		2.84		0.311	U	9.03		0.786	J	7.52		7.37		3.66		5.41		5.28		3.79		2.86		
1,2,3,4,7,8,9-HPCDF	0.398	J	0.609	J	0.238	J	0.727	J	0.205	J	0.068	U	0.559	J	0.063	J	0.601	J	0.445	J	0.234	J	0.355	J	0.447	J	0.19	J	0.267	J	
OCDF	10.2		17		7.52		12.2		5.46		0.686	U	14.1		1.34	J	19		11.6		8.34		11.2		12		9.2		5.86		
Dx/F TEQ (0 DL)	3.5		3.93		1.78		4.46		1.19		0.193		4.54		0.342		3.4		3.04		1.69		2.42		2.63		1.81		1.49		
Dx/F TEQ (1/2 DL)	3.51		3.94		1.91		4.46		1.32		0.256		4.55		0.399		3.52		3.11		1.69		2.46		2.63		1.83		1.49		
Dx/F TEQ (1 DL)	3.51		3.94		2.03		4.46		1.46		0.318		4.56		0.457		3.64		3.18		1.69		2.5		2.63		1.86		1.5		
<b>PCB Congeners (ng/kg DW)</b>																															
2-MOCB	9.77		6.3		5.56		6.96		3.73		0.516		9.19		1.14		9.98		5.12	J	3.56		4.07		4.12		3.64		2.36		
3-MOCB	58.7		25.1		20.5		26.8		15		2.53		33.3		4.13		30.9		34.1		13.5		17.2		18.6		15.8		9.61		
4-MOCB	9.28		6.69		4.85		6.7		3.28		0.757		9.77		1.11		9.97		6.78	J	4.8		5.95		5.93		4.74		4.05		
2,2'-DICB	14.2		8.55		8.15		10.3		5.31		0.427		13		1.14		12.1		10.1		8.05		7.33		7.38		7.42		3.28		
2,3-DICB	0.601		0.324	J	0.309	J	0.438		0.211	J	0.152	U	0.647		0.203	U	0.464		0.378	J	0.208	J	0.32	J	0.326	J	0.21	J	0.189	J	
2,3'-DICB	7.08		4.16		3.93		5.11		2.67		0.301	J	6.24		0.628		5.59		4.74		2.64		3.51		3.37		2.89		1.91		
2,4-DICB	2.34		1.66		1.32		1.84		0.885		0.144	U	2.2		0.244	J	2.63		2.15		1.28		1.5		1.51		1.39		0.65		
2,4'-DICB	42.3		28.9		26		17.8		17.8		1.75		40		4.13		40.1		36.8		23.1		25.9		26.4		24.5		15		
2,5-DICB	1.51		1.11		1.06		1.32		0.813		0.281	J	1.81		0.324	J	1.37		1.25		0.744		1.03		1.03		1		0.633		
2,6-DICB	0.658		0.441		0.313	J	0.427		0.174	J	0.146	U	0.573		0.187	U	0.562		0.483		0.345	J	0.295	J	0.313	J	0.332	J	0.124	J	
3,3'-DICB	92.7		57.2		44.9		72.1		32.7		5.34		85.8		7.33		72.1		49.7		26.2		36.3		36		29.3		18.5		
3,4-DICB	10.7	CU	6.04	C	4.78	C	7.36	C	3.7	C	0.5	C	8.65	C	0.755	C	10.8	CU	7.83	C	4.43	C	6	C	5.88	C	4.89	C	3.12	C	
3,5-DICB	1.19	U	0.699		0.552		0.946	U	0.383	J	0.135	U	0.939		0.182	U	0.995	U	1.17	U	0.625		0.753		0.944	U	0.803	U	0.565		
4,4'-DICB	56.7		37.9		30.4		44.1		21.4		3.55		50.1		5.1		46.7		52.7		28.6		41.8		41.8		29.8		21.4		
2,2',3-TRICB	12.6		7.69		8.27		11.3		6.03		0.693		13.5		1.16		8.73		12		6.23		7.64		8.02		5.69		5.97		
2,2',4-TRICB	19.3		11.2		11.5		15.7		8.48		0.84		17		1.87		11.9		16.2		9.3		10.4		11.8		9.31		6.98		
2,2',5-TRICB	33.8	C	15.8	C	18.4	C	22.2	C	11.3	C	1.48	C	27.7	C	2.82	C	18.2	C	23.1	CJ	13.3	C	18	C	15.5	C	12.4	C	10	C	
2,2',6-TRICB	3.09		1.85		2.26		2.43		1.44		0.192	J	3.85		0.312	J	2.3		2.34		1.6		1.68		1.69		1.5		1.32		
2,3,3'-TRICB	139	C	87.9	C	78.6	C	113	C	53.8	C	9.32	C	122	C	13.3	C	96.2	C	138	C	73.2	C	101	C	105	C	76.1	C	56.9	C	
2,3,4-TRICB	42.8	C	27.5	C	27	C	36.8	C	17.9	C	1.98	C	42.5	C	3.69	C	30.9	C	33.7	C	18.3	C	24	C	24.6	C	17.7	C	13.6	C	
2,3,4'-TRICB	32.8		19.7		19.7		26.7		13.9		1.73		31.3		2.82		22.9		29		15.4		21.1		21.9		15.3		12.5		
2,3,5-TRICB	0.135	U	0.152	U	0.101	U	0.195	U	0.0862	U	0.0896	U	0.104	U	0.125	U	0.145	U	0.117	U	0.112	U	0.169	U	0.0874	U	0.122	U	0.113	U	
2,3,6-TRICB	0.408		0.221	J	0.233	U	0.319	U	0.188	J	0.081	U	0.459		0.11	U	0.229	J	0.408	U	0.243	J	0.227	U	0.286	U	0.166	J	0.193	J	
2,3',4-TRICB	8.85		6.03		5.47		7.65		3.59		0.442		8.35		0.681		6.47		8.56		4.58		6.02		6.32		4.5		3.58		
2,3',5-TRICB	16.5	C	9.93	C	10	C	13.6	C	6.53	C	0.833	C	15.6	C	1.33	C	11.3	C	14.6												



North Olympic Peninsula Regional Background Validated Data 8/5/2013

Location ID	PT-02-S	Q	PT-03-S	Q	PT-04-S	Q	PT-05-S	Q	PT-06-S	Q	PT-07-S	Q	PT-08-S	Q	PT-09-S	Q	PT-10-S	Q	SEQ-01-S	Q	SEQ-02-S	Q	SEQ-03-S	Q	SEQ-03-D	Q	SEQ-04-S	Q	SEQ-05-S	Q
3,4,5-TRICB	0.712		0.335	J	0.423		0.518		0.325	J	0.0775	U	0.547		0.117	U	0.367	U	0.575		0.401		0.499	U	0.424		0.323	U	0.401	
3,4,5-TRICB	1.08		0.693		0.659		0.945		0.47		0.0782	U	0.863		0.114	U	0.66		1.08		0.542		0.793		0.761		0.556		0.501	
2,2',3,3'-TECB	48.1	C	32.3	C	32.2	C	43.1	C	22.2	C	2.55	C	46.9	C	5.32	C	33.7	C	37.8	C	20.4	C	26.2	C	28.3	C	17.3	C	20.4	C
2,2',3,4'-TECB	20.7		14.8		15.5		20.7		11.1		1.37		21.7		2.3		15.1		22.4		11.9		15.7		16.9		11.3		12.1	
2,2',3,5'-TECB	2.24		1.41		1.65		2.17		1.32		0.152	U	2.22		0.223	U	1.7	U	2.08		1.09		1.62		1.75		1.1		1.33	
2,2',3,5'-TECB	83.8	C	56	C	58.8	C	76.9	C	38.7	C	4.92	C	91.4	C	8.38	C	57	C	80.2	C	42.7	C	55.2	C	60.3	C	41.2	C	41.9	C
2,2',3,6'-TECB	8.93	C	5.79	C	5.99	C	7.82	C	4.2	C	0.46	C	8.48	C	0.866	C	5.85	C	8.41	C	4.68	C	5.36	C	5.82	C	4.27	C	4.81	C
2,2',3,6'-TECB	3.34		2.23		2.23		3.09		1.59		0.15	U	3.24		0.38	J	1.67	U	2.68		1.51		1.72		1.94		1.34		1.69	
2,2',4,5'-TECB	14.1		8.3		9.85		12.3		6.85		0.685		13		1.4		8.17		12.5		6.56		8.66		9.22		6.22		6.58	
2,2',4,5'-TECB	57.8	C	37.6	C	40.1	C	53.8	C	27.1	C	3.4	C	57.4	C	6.03	C	39.6	C	60.2	C	32.1	C	40.5	C	44.4	C	32.4	C	30.3	C
2,2',4,6'-TECB	8.82	C	5.86	C	6.19	C	7.87	C	4.07	C	0.393	C	8.69	C	0.906	C	5.03	C	8.29	C	4.29	C	4.81	C	5.47	C	4.35	C	4.01	C
2,2',5,5'-TECB	91.7		57.9		68.3		81		41.3		5.44		120		8.76		62.5		95.2		48.5		67.1		70.8		46.6		51.7	
2,2',6,6'-TECB	0.267	U	0.13	J	0.137	J	0.161	J	0.111	J	0.0874	U	0.133	J	0.108	U	0.133	U	0.145	U	0.0866	U	0.107	U	0.084	J	0.0999	U	0.0839	U
2,3,3',4'-TECB	1.77		1.02		1.08		1.45		0.861		0.134	U	1.52		0.223	U	1.42	U	1.67		0.719		1.24		1.07		0.703		0.749	
2,3,3',4'-TECB	53.7		35.8		35.9		46.4		24.6		3.17		55.1		5.75		40.7		45.6		23.5		34.9		36.5		24.2		19.6	
2,3,3',5'-TECB	0.663		0.374	J	0.363	J	0.436		0.265	J	0.124	U	0.615		0.213	U	1.36	U	0.579		0.29	J	0.422		0.398		0.291	J	0.234	J
2,3,3',5'-TECB	0.586		0.272	J	0.259	J	0.398		0.244	J	0.128	U	0.546		0.218	U	1.39	U	0.521		0.242	J	0.241	J	0.337	J	0.212	J	0.19	J
2,3,3',6'-TECB	7.46	C	5.02	C	5.14	C	7.03	C	3.67	C	0.536	C	7.55	C	0.835	C	5.68	C	7.84	C	4.26	C	5.3	C	5.87	C	4.13	C	3.88	C
2,3,4,4'-TECB	30.1		20.3		20.6		27.3		14.7		1.91		31.5		3.38		22.3		30.3		15.1		22.5		23.1		16.8		13.1	
2,3,4,5'-TECB	208	C	137	C	139	C	183	C	93.9	C	13	C	231	C	21.8	C	148	C	202	C	97.7	C	148	C	155	C	107	C	88.2	C
2,3,4,5'-TECB	5.1		3.2		3.36		4.23		2.24		0.299	J	4.71		0.476		3.47	U	5.24		2.5		3.6		3.72		2.63		2.09	
2,3,4,6'-TECB	32.5		21.8		23.4		30.4		16.2		2.1		36		3.5		23.9		35		17.6		24.3		26.3		17.5		18.6	
2,3,4,4'-TECB	125		83.1		81.4		109		57.6		6.84		122		13		90.9		118		58.7		84.9		88.7		64.8		46.2	
2,3,4,5'-TECB	3.99		2.69		2.51		3.43		1.76		0.225	J	3.91		0.31	J	2.52	J	4.16		2.04		2.77		3		2.09		2	
2,3,4,5'-TECB	1.41		0.942		0.894		1.06		0.694		0.121	U	1.11		0.203	U	1.3	U	1.5		0.695		0.913		1.06		0.825		0.589	
2,3,5,5'-TECB	1.84		1.21		1.16		1.52		0.894		0.12	U	1.53		0.203	U	1.3	U	2.06		0.913		1.33		1.42		1.1		1.05	
2,3,5,6'-TECB	0.237	U	0.0801	U	0.0748	U	0.125	U	0.0707	U	0.0951	U	0.0676	U	0.13	U	1.17	U	0.166	U	0.0793	U	0.0947	U	0.0827	U	0.112	U	0.0804	U
3,3',4,4'-TECB	24.9		15.3		14.3		19.6		10.9		1.65		20.5		2.7		15.8		21.8		10.2		15		15.7		11.8		7.42	
3,3',4,5'-TECB	0.201	J	0.142	U	0.165	U	0.247	U	0.12	U	0.124	U	0.116	U	0.215	U	1.37	U	0.145	U	0.174	U	0.182	U	0.204	U	0.158	U	0.111	U
3,3',4,5'-TECB	2.25		1.82		1.9		2.29		1.01		0.169	J	3		0.266	U	1.97	U	2.21		1.14		1.56		1.59		1.1		0.99	
3,3',5,5'-TECB	0.166	U	0.133	U	0.155	U	0.232	U	0.112	U	0.116	U	0.109	U	0.207	U	1.32	U	0.14	U	0.162	U	0.17	U	0.191	U	0.148	U	0.104	U
3,4,4',5'-TECB	0.94	U	0.562		0.47		0.773		0.412		0.118	U	0.699		0.212	U	0.672		0.816	U	0.34	J	0.551		0.58		0.451	U	0.379	J
2,2',3,3',4'-PECB	18.6		11.8		15		11.4		7.72		0.74	U	24.1		1.71		9.49		12.9		6.67		10.5		7.39		4.54		5.24	
2,2',3,3',5'-PECB	115	C	76.6	C	88.6	C	102	C	50.5	C	6.49	C	133	C	12.3	C	75.5	C	106	C	53.8	C	74	C	75.3	C	53.9	C	47.8	C
2,2',3,3',6'-PECB	28.1		21.4		29		25.2		13		1.81		49.5		3.34		22.5		27.3		14.7		20.9		21		13.3		15.5	
2,2',3,4,4'-PECB	35.3	C	24.8	C	27.1	C	30.2	C	15.8	C	2.07	C	42	C	4.09	C	23.8	C	32.4	C	17.3	C	25	C	24	C	17	C	15.9	C
2,2',3,4,5'-PECB	101	C	73.9	C	92.2	C	90.6	C	46.7	C	6.05	C	153	C	11.2	C	73.8	C	84.6	C	44	C	65.9	C	66.6	C	40.9	C	44.4	C
2,2',3,4,6'-PECB	17.8	C	13.6	C	16.1	C	16.8	C	8.07	C	1.18	C	26.1	C	2.03	C	14	C	17.2	C	9.58	C	12.3	C	13.1	C	9.01	C	9.94	C
2,2',3,4,6'-PECB	1.52		1.18		1.25		1.54		0.788		0.15	U	1.98		0.179	U	1.07		1.22		0.629		0.948		0.9		0.466		0.898	
2,2',3,4,5'-PECB	152	C	105	C	134	C	138	C	69	C	9.58	C	215	C	16.6	C	108	C	145	C	74.7	C	108	C	105	C	74.9	C	74.1	C
2,2',3,5,5'-PECB	26.3		18.3		23.5		24.1		11.7		1.77		37.1		2.98		19.6		25.3		13		19		19		13.2		14	
2,2',3,5,6'-PECB	89.5	C	70	C	92.7	C	85.4	C	43.5	C	5.99	C	157	C	9.65	C	72.4	C	94.6	C	50.1	C	68.7	C	69.8	C	47.8	C	53.3	C
2,2',3,5,6'-PECB	0.677		0.527		0.59		0.799		0.378	U	0.157	U	0.761		0.181	U	0.567		0.722		0.419		0.455		0.465		0.368	J	0.473	U
2,2',3,6,6'-PECB	0.77		0.572	U	0.722		0.666		0.414	U	0.0836	U	0.915		0.119	J	0.476		0.89		0.421		0.526		0.616		0.481		0.484	
2,2',4,5',6'-PECB	1.7		1.34		1.31		1.7		0.884		0.128	U	1.61		0.276	J	1.15		1.87		0.995		1.11		1.22		1.01		0.721	
2,2',4,6,6'-PECB	0.0775	U	0.0676	U	0.0589	U	0.105	U	0.0574	U	0.0767	U	0.0625	U	0.078	U	0.115	U	0.0715	U	0.079	U	0.104	U	0.0616	U	0.0866	U	0.0672	U
2,3,3',4,4'-PECB	90.9		60		64.7		74.6		38.3		5.17		104		9.34		60.5		73.7		35.6		55.5		53.6		39.7		29.1	
2,3,3',4,5'-PECB	0.252	U	0.125	U	0.241	U	0.191	U	0.141	U	0.128	U	0.187	U	0.159	U	0.302	U	0.169	U	0.15	U	0.182	U	0.173	U	0.211	U	0.133	U
2,3,3',4,5'-PECB	6.79	C	4.62	C	5.62	C	5.83	C	2.95	C	0.372	CJ	9.53	C	0.718	C	4.87	C	5.71	C	2.71	C	4.13	C	3.85	C	2.83	C	2.49	C
2,3,3',4,6'-PECB	17.6		11.5		12.3		13.9		8.03		1.02		19.3		2.18		11.5		15.7		7.9		11.3		11.1		8.62		6.37	
2,3,3',4,6'-PECB	163	C	116	C	142	C	145	C	74.7	C	9.88	C	241	C	17.3	C	120	C	148	C	76.4	C	114	C	108	C	74.3	C	72.9	C
2,3,3',5,5'-PECB	0.252	U	0.213	U	0.192	U	0.225	J	0.181	U	0.103	U	0.212	U	0.126	U	0.156	U	0.385	U	0.17	U	0.224	U	0.24	U	0.153	U	0.138	J
2,3,3',5,6'-PECB	0.0995	U	0.0766	U	0.0864	U	0.158	U	0.0763	U	0.102</																			

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Location ID	PT-02-S	Q	PT-03-S	Q	PT-04-S	Q	PT-05-S	Q	PT-06-S	Q	PT-07-S	Q	PT-08-S	Q	PT-09-S	Q	PT-10-S	Q	SEQ-01-S	Q	SEQ-02-S	Q	SEQ-03-S	Q	SEQ-03-D	Q	SEQ-04-S	Q	SEQ-05-S	Q
2,3,4,5,5'-PECB	1.38		0.863	U	0.993		1.3		0.659		0.0939	U	1.06		0.21	U	0.142	U	1.45		0.734		1.04		0.945		0.752	U	0.63	
2,3,4,5,6'-PECB	0.108	U	0.0804	U	0.0908	U	0.166	U	0.0799	U	0.108	U	0.0783	U	0.131	U	0.163	U	0.0961	U	0.0742	U	0.138	U	0.087	J	0.104	U	0.0812	U
2,3,3,4,5'-PECB	2.27		1.51		1.71		1.47		0.95		0.144	U	2.94		0.199	J	1.32		1.47		0.692		0.925		0.921		0.533		0.674	
2,3,4,4,5'-PECB	3.58		2.28		3.01		3.31		1.49		0.289	J	3.9		0.432		2.49		3.36		1.42		2.47		2.38		1.54		1.2	
3,3,4,4,5'-PECB	1.96		1.14		1.08		1.37		0.749		0.197	J	1.31		0.199	J	1.11		1.5		0.71		0.889		1.12		1.06		0.643	
3,3,4,5,5'-PECB	0.364	U	0.13	U	0.252	U	0.199	U	0.139	U	0.134	U	0.195	U	0.157	U	0.316	U	0.239	U	0.157	U	0.191	U	0.181	U	0.221	U	0.14	U
2,2,3,3,4,4'-HXCB	38.2	C	28.7	C	32.8	C	35.3	C	16	C	2.16	C	50.7	C	5.1	C	27.5	C	33.3	C	16.7	C	26.4	C	23.7	C	17.8	C	13.8	C
2,2,3,3,4,5'-HXCB	237	C	170	C	197	C	217	C	101	C	13.2	C	296	C	28.1	C	162	C	224	C	100	C	158	C	150	C	111	C	88.2	C
2,2,3,3,4,5,5'-HXCB	15.2		11.3		12.9		14.1		6.53		0.812		19.5		1.79		10.9		14.4		6.9		10.7		10.8		7.41		5.62	
2,2,3,3,4,6'-HXCB	1.9		1.54		2.15		1.98		0.874	U	0.148	U	3.62		0.217	U	1.42		1.77		0.818		1.22		1.35		0.836		0.757	
2,2,3,3,4,6,6'-HXCB	53.6		41.9		49.6		51.9		22.3		2.87		81.8		6.29		40.9		50.8		23.1		38.1		36.6		23.2		21.9	
2,2,3,3,5,5'-HXCB	3.8		2.72		3.04		3.67		1.74		0.188	J	4.22		0.198	U	2.53		4.36		1.89		2.74		2.86		1.97		1.91	
2,2,3,3,5,6'-HXCB	7.65	C	6.31	C	8.14	C	7.84	C	3.44	C	0.456	C	13	C	0.966	C	6.04	C	7.65	C	3.65	C	5.57	C	5.27	C	3.69	C	3.48	C
2,2,3,3,5,6,6'-HXCB	54.8	C	39.3	C	42.8	C	49.9	C	25.5	C	3.08	C	63.8	C	6.71	C	37.3	C	54.7	C	26.8	C	38.7	C	37.3	C	27.5	C	25.7	C
2,2,3,3,6,6'-HXCB	14.8		12.4		15.5		15.6		7.71		0.998		24		1.92		11.1		17.4		8.7		12.4		12.3		0.107	U	8.24	
2,2,3,4,4,5'-HXCB	6.78		4.95		6.99		6.88		2.96		0.352	J	11.4		0.821		4.6		6.86		2.39		4.44		3.77		2.52		2.87	
2,2,3,4,4,6'-HXCB	3.29	C	2.67	C	3.35	C	3.44	C	1.5	C	0.137	CJ	5.04	C	0.425	C	2.28	C	3.41	C	1.51	C	2.22	C	2.17	C	1.62	C	1.64	C
2,2,3,4,5,5'-HXCB	19		13.1		19.4		17.5		8.58		1.04		32.5		2.41		13.4		16.2		6.94		12.6		12		6.95		7.66	
2,2,3,4,5,6'-HXCB	0.24	U	0.175	U	0.17	U	0.329	U	0.184	U	0.148	U	0.289	U	0.205	U	0.469	U	0.23	U	0.213	U	0.308	U	0.261	U	0.215	U	0.121	U
2,2,3,4,5,6'-HXCB	6.49		4.76		5.96		6.31		3.23		0.355	J	9.02		0.787		4.65		6.63		3.17		4.58		4.52		3.13		3.12	
2,2,3,4,6,6'-HXCB	0.11	U	0.0963	U	0.085	U	0.16	U	0.0762	U	0.0918	U	0.111	U	0.119	U	0.177	U	0.102	U	0.0906	U	0.123	U	0.0902	U	0.115	U	0.0822	U
2,2,3,4,5,5'-HXCB	38		23.3		25.1		29.8		15.9	J	2.1		34.8		5.27		24.1		32.1	J	15.4		23.6		23.2		17.3		13.9	
2,2,3,4,5,6'-HXCB	134	C	102	C	114	C	128	C	60.3	C	7.82	C	177	C	16.6	C	95.1	C	132	C	65.2	C	99.1	C	88.2	C	66.6	C	64.1	C
2,2,3,4,5,6,6'-HXCB	1.27		0.388		0.604	U	0.225	U	0.465	U	0.113	U	0.671		0.146	U	0.218	U	0.529	U	0.356	U	0.386		0.178	U	0.171	U	0.2	J
2,2,3,4,6,6'-HXCB	0.402	U	0.31	U	0.355	J	0.457		0.259	J	0.0879	U	0.449		0.116	U	0.281	J	0.511		0.254	J	0.337	U	0.327	J	0.198	J	0.45	
2,2,3,5,6,6'-HXCB	0.143	J	0.11	U	0.14	J	0.147	U	0.079	U	0.0847	U	0.246	J	0.11	U	0.164	U	0.218	J	0.102	J	0.131	U	0.136	J	0.104	U	0.192	J
2,2,4,4,5,5'-HXCB	204	C	140	C	156	C	181	C	85.3	C	11.2	C	226	C	24.4	C	135	C	189	C	86.7	C	133	C	127	C	95.8	C	77	C
2,2,4,4,6,6'-HXCB	0.0814	U	0.0656	U	0.0592	U	0.102	U	0.0538	U	0.0655	U	0.076	J	0.0814	U	0.127	U	0.0722	U	0.0647	U	0.0943	U	0.0616	U	0.0842	U	0.0575	U
2,3,3,4,4,5'-HXCB	20.7	C	14	C	20.9	C	20.2	C	9.33	C	1.14	C	29.6	C	2.36	C	14.5	C	17.8	C	7.84	C	13.3	C	12.8	C	8.9	C	6.69	C
2,3,3,4,4,6'-HXCB	17		12.3		16.7		16.4		7.1		0.934		25.8		1.89		11.8		13.6		5.89		9.96		9.15		5.69		5.85	
2,3,3,4,5,5'-HXCB	1.69		1.33		1.4		1.91		0.866		0.0988	U	2.46		0.271	J	1.31		1.91		0.733		1.27		1.4		0.921	U	0.861	
2,3,3,4,5,6'-HXCB	0.16	U	0.119	U	0.115	U	0.223	U	0.125	U	0.1	U	0.196	U	0.143	U	0.319	U	0.159	U	0.143	U	0.206	U	0.175	U	0.144	U	0.0811	U
2,3,3,4,5,5'-HXCB	1.11		0.605	U	0.798		0.799	U	0.483		0.1	U	0.911	U	0.145	U	0.478	U	0.975		0.352	J	0.637	U	0.745		0.469		0.0838	U
2,3,3,4,5,6'-HXCB	11.5		8.7		11.2		11.5		5.28		0.603		16.9		1.3		8.8		9.82		4.5		7.27		7.69		4.36		4.58	
2,3,3,5,5,6'-HXCB	0.401		0.276	J	0.272	J	0.253	U	0.231	U	0.113	U	0.276	U	0.167	U	0.361	U	0.426		0.204	J	0.243	U	0.243	J	0.169	U	0.191	U
2,3,4,4,5,5'-HXCB	8.72		5.85		7.48		8.22		3.98		0.441		10.8		1		5.89		6.99		3.22		5.4		4.97		3.48		2.81	
3,3,4,4,5,5'-HXCB	0.47	U	0.195	U	0.314	U	0.525	U	0.242	U	0.101	U	0.316	U	0.135	U	0.318	U	0.42	U	0.181	U	0.208	U	0.183	U	0.179	U	0.105	U
2,2,3,3,4,4,5'-HPCB	40.1		24.5		30.1		34.4		18.3		1.78		44		4.78		25.3		39.8		18.7		29.9		29.7		21		15.1	
2,2,3,3,4,4,6'-HPCB	14.5	C	10	C	11	C	13.5	C	6.95	C	0.845	C	16.3	C	1.81	C	10.8	C	13.7	C	6.68	C	10.2	C	9.45	C	7.14	C	5.44	C
2,2,3,3,4,5,5'-HPCB	7.05		3.97		5		5.92		3.23		0.342	J	7.56		0.85		4.45		7.34		3.53		5.38		5.01		3.74		2.72	
2,2,3,3,4,5,6'-HPCB	34.5		24.5		26.8		32.8		16.7		1.95		43.8		4.2		26.4		33.9		17.6		27.7		25.6		16.8		14.4	
2,2,3,3,4,5,6'-HPCB	2.29		1.68		1.72		2.16		1.11		0.126	U	2.55		0.266	J	1.68		2.56		1.26		1.68		1.59		1.18		0.882	
2,2,3,3,4,6,6'-HPCB	5.14		3.82		3.7		5.01		2.46		0.287	U	6		0.712	U	4.14		5.59		2.75		4.25		3.8		2.67		2.25	
2,2,3,3,4,5,6'-HPCB	34.6		23		23.8		30.6		16.2		1.67		34.3		4.14		24		32.1		15.7		23.1		22.1		17.2		10.5	
2,2,3,3,5,5,6'-HPCB	14.2		10.2		9.59		13.2		6.39		0.859		13.2		1.76		9.96		14.8		7.07		9.97		9.21		7.36		5.67	
2,2,3,3,5,6,6'-HPCB	19.1		13.8		13.2		17.9		9.17		1.21		20.1		2.58		14		20.1		10		14		13.5		9.93		8.33	
2,2,3,4,4,5,5'-HPCB	80.2	C	48.7	C	58.4	C	66.4	C	37.4	C	3.56	C	89	C	9.68	C	51.4	C	67.3	C	28.9	C	49.6	C	47.7	C	29.3	C	30.3	C
2,2,3,4,4,5,6'-HPCB	0.323	J	0.231	J	0.358	U	0.25	J	0.226	U	0.131	U	0.51		0.177	U	0.248	U	0.383	J	0.133	J	0.227	U	0.215	J	0.136	U	0.172	J
2,2,3,4,4,5,6'-HPCB	0.41	U	0.343	J	0.297	J	0.385	J	0.177	U	0.127	U	0.306	J	0.167	U	0.453		0.601		0.295	J	0.306	J	0.375	U	0.13	U	0.224	J
2,2,3,4,4,5,6'-HPCB	31.9	C	21.4	C	22.5	C	28.7	C	14.9	C	1.81	C	34.5	C	4.03	C	0.237	CU	32.1	C	15.2	C	22.6	C	20.8	C	15.3	C	12.7	C
2,2,3,4,4,6,6'-HPCB	0.183	J	0.102	U	0.112	J	0.174	J	0.0783	U	0.0957	U	0.118	U	0.133	U	0.181	U	0.153	U	0.0904	U	0.134	U	0.0849	U	0.0994	U	0.094	U
2,2,3,4,5																														

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Location ID	PT-02-S	Q	PT-03-S	Q	PT-04-S	Q	PT-05-S	Q	PT-06-S	Q	PT-07-S	Q	PT-08-S	Q	PT-09-S	Q	PT-10-S	Q	SEQ-01-S	Q	SEQ-02-S	Q	SEQ-03-S	Q	SEQ-03-D	Q	SEQ-04-S	Q	SEQ-05-S	Q
2,3,3',4,4',5,6-HPCB	7.24		4.43		5.42		6.28		3.52		0.374	J	8.54		0.707	U	4.76		6.48		3.24		5.28		4.6		3.41		2.59	
2,3,3',4,4',5',6-HPCB	1.45		0.871		1.13		1.29		0.738		0.0977	U	1.78		0.219	J	1.05		1.33		0.647		0.942		0.826		0.557	U	0.482	
2,3,3',4,5,5',6-HPCB	0.148	U	0.114	U	0.106	U	0.186	U	0.0963	U	0.112	U	0.136	U	0.153	U	0.213	U	0.108	U	0.107	U	0.158	U	0.1	U	0.117	U	0.111	U
2,2',3,3',4,4',5,5'-OCCB	24		13		15		18.2		10.2		0.979		23		2.91		14.2		21.4		9.26		17.8		16		11.4		8.54	
2,2',3,3',4,4',5,6-OCCB	9.74		5.55		6.07		6.95		4.22		0.354	J	8.86		1.23		5.56		8.6		3.71		6.37		5.96		4.45		2.88	
2,2',3,3',4,4',5,6'-OCCB	12.7		7.8		8.39		10.5		6.34		0.678		12.3		1.73		8.12		14		5.83		9.53		8.48		6.27		4.98	
2,2',3,3',4,4',6,6'-OCCB	4.03	C	2.39	CJ	2.32	CJ	3.35	CJ	1.8	CJ	0.223	CJ	3.26	CJ	0.637	C	3.31	CJ	3.54	CJ	1.69	CJ	2.6	CJ	2.39	C	1.76	C	1.28	C
2,2',3,3',4,5,5',6-OCCB	37.3	C	24.2	C	23.9	C	32.3	C	17.8	C	2.02	C	33.6	C	4.97	C	24.3	C	38.8	C	16.6	C	26.1	C	24	C	17.8	C	12.6	C
2,2',3,3',4,5',6,6'-OCCB	5.17		3.56		3.18		4.38		2.36		0.212	J	4.41		0.69		3.28		5.39		2.41		3.55		3.28		2.41		1.77	
2,2',3,3',5,5',6,6'-OCCB	10.4		6.98		6.48		9.08		4.69		0.582		8.48		1.34		6.91		9.81		4.43		6.76		6.83		5.24		3.81	
2,2',3,4,4',5,5',6-OCCB	17.8		10.8		11.2		14.6		8.54		0.716		16.3		2.08		11.3		15.1		6.85		11.3		9.98		7.51		6.02	
2,2',3,4,4',5,6,6'-OCCB	0.086	U	0.0999	U	0.0718	U	0.16	U	0.0787	U	0.0877	U	0.0856	U	0.109	U	0.184	U	0.097	J	0.103	U	0.116	U	0.0921	U	0.117	U	0.0833	U
2,3,3',4,4',5,5',6-OCCB	1.34		0.8		0.894		1.14		0.661		0.141	U	1.27		0.183	U	0.766		1.04		0.578		0.66		0.774		0.509		0.388	
2,2',3,3',4,4',5,5',6-NOCB	24.2		16.6		16.1		20.7		12.5		1.37		18.7		3		18.3		20.6		10.2		14		13.6		10.7		9.78	
2,2',3,3',4,4',5,6,6'-NOCB	3.4		2.53		2.28		3.2		1.77		0.201	J	2.79		0.486		2.5		3.55		1.94		2.7		2.6		2.08		1.86	
2,2',3,3',4,5,5',6,6'-NOCB	9.7		6.79		5.92		7.85		4.73		0.451		6.86		1.11		7.25		8.85		4.45		5.72		5.76		4.58		4.1	
2,2',3,3',4,4',5,5',6,6'-DECB	26.4		20.5		15.1		20.3		12.9		2.44		16.7		2.74		21.2		21.9		11		12.4		12.6		11.7		11.3	
Total PCBs*	4150		2790		3050		3610		1820		235		4760		446		2880		3790		1890		2750		2720		1940		1680	
PCB TEQ (0 DL)	0.208		0.122		0.117		0.147		0.0803		0.0204		0.145		0.0212		0.119		0.16		0.0759		0.0966		0.12		0.111		0.0683	
PCB TEQ (1/2 DL)	0.216		0.125		0.122		0.155		0.084		0.022		0.15		0.0233		0.124		0.167		0.0786		0.0997		0.122		0.114		0.0699	
PCB TEQ (1 DL)	0.223		0.128		0.126		0.163		0.0876		0.0235		0.155		0.0253		0.129		0.173		0.0814		0.103		0.125		0.117		0.0715	

\*total PCBs represents the sum of all PCBs  
 U-the analyte was analyzed for  
 J-the analyte was positively identified  
 UJ-the analyte was not detected  
 C-see list for co-eluting congeners  
 DW-dry weight Q-qualifier

Congener	PCB #	TEF	Co-elutes With PCB #
3,4'-DICB	13		C12
2,4,4'-TRICB	28		C20
2,4,5-TRICB	29		C26
2,4,6-TRICB	30		C18
2',3,4-TRICB	33		C21
2,2',3,4-TECB	41		C40
2,2',4,4'-TECB	47		C44
2,2',4,6'-TECB	51		C45
2,2',5,6'-TECB	53		C50
2,3,4,6-TECB	62		C59
2,3,5,6-TECB	65		C44
2,3',4,6-TECB	69		C49
2,3',4',5-TECB	70		C61
2,3',4',6-TECB	71		C40
2,4,4',5-TECB	74		C61
2,4,4',6-TECB	75		C59
2',3,4,5-TECB	76		C61
2,2',3,4,5'-PECB	87		C86
2,2',3,4',6-PECB	91		C88
2,2',3,5',6-PECB	95		C93
2,2',3',4,5-PECB	97		C86
2,2',3',4,6-PECB	98		C93
2,2',4,4',5-PECB	99		C83
2,2',4,4',6-PECB	100		C93
2,2',4,5,5'-PECB	101		C90
2,2',4,5,6'-PECB	102		C93
2,3,3',4,5'-PECB	108		C86
2,3,3',5',6-PECB	113		C90
2,3,4,4',6-PECB	115		C110
2,3,4,5,6-PECB	116		C85
2,3,4',5,6-PECB	117		C85
2,3',4,4',6-PECB	119		C86
2',3,4,5,5'-PECB	124		C107
2',3,4,5,6'-PECB	125		C86
2,2',3,4,4',5'-HXCB	138		C129
2,2',3,4,4',6'-HXCB	140		C139
2,2',3,4,5,6'-HXCB	143		C134
2,2',3,4',5',6-HXCB	149		C147
2,2',3,5,5',6-HXCB	151		C135
2,2',4,4',5,6'-HXCB	154		C135
2,3,3',4,4',5'-HXCB	157	0.00003	C156
2,3,3',4,5,6-HXCB	160		C129
2,3,3',4',5,6-HXCB	163		C129
2,3,4,4',5,6-HXCB	166		C128
2,3',4,4',5',6-HXCB	168		C153
2,2',3,3',4,5,6-HPCB	173		C171
2,2',3,4,5,5',6-HPCB	185		C183
2,3,3',4',5,5',6-HPCB	193		C180
2,2',3,3',4,5,6,6'-OCCB	199		C197
2,2',3,3',4,5,5',6'-OCCB	201		C198

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X	Y	LocationID	Date	Time	TOC	Total Solids	TVS	Sulfide	S2_Q	Gravel	Sand	Silt	Clay	Fines	Arsenic	As_Q	Cadmium	Cd_Q	Mercury	Hg_Q
1150426.9	387165.1	DIS-01	3/28/13	15:48	3.02	20.93	10.42	1100		0.2	6.9	57.8	35	92.9	11.8		2.6		0.1	
1144005.1	392274.2	DIS-02	5/8/13	15:29	1.94	25.9	8.82	2420		0.1	3.8	60.5	35.7	96.2	10.1		1		0.09	
1145086.4	372539.7	DIS-03	5/8/13	13:57	0.733	76.01	1.31	1.54		0.1	94	2.7	3.2	5.9	2.2		0.15		0.03	U
1132701.9	399152.8	DIS-04	5/7/13	13:42	2.32	45.56	5.58	2.43	U	0.1	10.9	65.1	23.9	89	5.6		0.38		0.35	J
1135798.0	392501.7	DIS-05	5/8/13	15:54	1.97	47.4	5.13	68.9		5.6	16.3	56.1	22	78	6.5		0.45		0.09	
1150340.0	383888.1	DIS-06	5/7/13	15:30	3.8	28.93	9.5	1400		0.1	5	54.9	40.2	95.1	14.2		1.9		0.14	J
1147100.6	385619.0	DIS-07	5/8/13	11:47	8.29	28.38	8.8	1490		0.2	5.3	60.2	34.2	94.5	13.5		1.3		0.12	
1129396.9	395649.1	DIS-08	5/7/13	14:29	2.1	70.34	2.07	30.9		1.2	78.4	13	7.4	20.4	2.3		0.13	U	0.03	UJ
1137763.2	403940.1	DIS-09	5/7/13	16:40	1.33	54.7	4.67	16.77	J	0.1	20.7	58.4	20.8	79.2	4.6		0.28		0.07	J
1142311.6	390678.7	DIS-10	5/8/13	11:27	5.79	26.75	8.41	1690		0.4	3.3	65	31.3	96.2	8.3		0.72		0.11	
1137577.5	397373.6	DIS-11	5/7/13	14:07	2.29	38.05	6.98	219		0.1	9.5	64.2	26.1	90.3	7.2		0.57		0.09	J
1145272.9	379104.8	DIS-12	5/8/13	14:35	2.49	73.28	2.01	1.4	U	1.6	86.9	6.2	5.1	11.4	3.2		0.15		0.03	U
1145670.1	370882.2	DIS-13	5/8/13	13:29				73.7		7.3	80.4	6.9	5.5	12.4					0.03	
1138442.2	405561.0	DIS-14	5/8/13	9:56				37.8		0.1	23.6	55.7	20.7	76.4					0.05	
1131791.7	402466.5	DIS-15	5/8/13	10:18				2.48	U	0.1	10.9	64.9	24.2	89.1					0.08	
1136527.4	395759.0	DIS-16	5/8/13	16:41				180		0.6	17.9	57.4	24	81.4					0.1	
1139758.6	394033.7	DIS-17	5/8/13	16:13				304		0.1	18.9	54	27.1	81.1					0.12	
1130008.5	397590.3	DIS-18	5/8/13	10:36				9.56		0.3	16.7	60.5	22.4	82.9					0.07	
1142807.3	385737.5	DIS-19	5/8/13	15:02				1.34	U	1	92.5	4	2.5	6.5					0.02	U
1149141.1	377350.5	DIS-20	5/8/13	14:15				1480		0.1	4.4	60.1	35.3	95.5					0.12	
1109967.9	408003.3	DUN-01	5/6/13	16:13	1.98	58	3.86	2.54		0.6	41.6	40.9	16.8	57.8	4.2		0.2		0.06	
1097169.1	419856.4	DUN-02	5/6/13	15:09	0.603	73.76	1.76	6.22		7.7	88.4			4	2.7		0.12	U	0.03	
1089199.6	428287.6	DUN-03	5/6/13	10:09	0.875	73.44	1.76	2.6		0.1	93.8	3.8	2.3	6.1	2.4		0.13	U	0.03	U
1100495.4	421402.7	DUN-04	5/6/13	14:46	1.08	64.09	3.19	8.52		0.9	61	24.9	13.2	38.1	5		0.15	U	0.04	
1099042.6	428008.6	DUN-05	5/6/13	13:46	0.803	64.5	2.99	2.28		0.3	67	22.1	10.6	32.6	3		0.14	U	0.04	
1086103.8	434940.5	DUN-06	5/6/13	10:50	1.06	66.75	2.98	1.63	U	0.1	62.7	25.7	11.3	37.1	4.3		0.16		0.05	
1090976.3	433158.6	DUN-07	5/6/13	11:10	0.611	78.35	1.08	1.19	U	18.6	78.7			2.8	3.1		0.13	U	0.02	U
1108283.8	406410.6	DUN-08	5/6/13	16:38	0.835	70.12	1.73	5.53		1	85.3	9.1	4.6	13.7	2.6		0.14	U	0.03	U
1095621.0	423182.7	DUN-09	5/6/13	14:25	0.521	77.39	1.33	2.31		14.8	82.5			2.6	2		0.12	U	0.02	U
1092443.4	426555.9	DUN-10	5/6/13	12:10	0.949	74.35	1.71	26.6		19	78.2			2.9	1.9		0.13	U	0.03	U
1098675.0	414891.8	DUN-11	5/6/13	15:49	0.418	80.41	1.51	1.33		37.5	58.3	2.7	1.5	4.3	3.6		0.12	U	0.03	U
1082729.7	431754.1	DUN-12	5/6/13	11:30	1.56	56.77	4.31	26.8		0.1	37.8	49.5	12.6	62.1	5.5		0.28		0.05	
1094075.5	426509.6	DUN-13	5/6/13	13:28	0.631	75.51	1.63	1.31	U	10.4	82.8	4.7	2.2	6.9	2.4		0.13	U	0.03	U

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X	Y	LocationID	Date	Time	TOC	Total Solids	TVS	Sulfide	S2_Q	Gravel	Sand	Silt	Clay	Fines	Arsenic	As_Q	Cadmium	Cd_Q	Mercury	Hg_Q
1102277.1	426179.1	DUN-14	5/7/13	9:48				1.38	U	0.1	83.5	11.2	5.2	16.4					0.03	J
1090841.9	428135.5	DUN-15	5/7/13	12:19				1.38	U	3.3	89.5	4.2	2.9	7.1					0.03	UJ
1094025.1	424762.4	DUN-16	5/7/13	11:07				1.28	U	7.6	91.1			1.3					0.02	UJ
1104954.6	404754.7	DUN-17	5/7/13	9:02				1.64	U	0.1	62.1	26.8	11.1	37.8					0.04	J
1106734.3	409628.8	DUN-18	5/7/13	17:35				2.27	U	0.3	24.6	53	22.1	75					0.07	J
1101810.6	409772.9	DUN-19	5/7/13	9:20				2.4	U	0.1	10.6	64.4	25	89.3					0.07	J
1098993.2	426265.0	DUN-20	5/7/13	10:19				1.49	U	0.1	80.8	12.3	6.8	19.1					0.03	UJ
1089289.5	431461.8	DUN-21	5/7/13	11:50				1.34	U	5.6	86.3	5.4	2.5	8					0.02	UJ
1087742.8	434794.8	DUN-22	5/7/13	11:31				1.5	U	0.1	70.9	19.8	9.4	29.2					0.03	J
1166832.2	404007.1	PT-01	5/10/13	14:46	1.41	44.39	5.82	3.16	J	0.3	7.8	60.6	31.3	91.8	5.7		0.24		0.1	
1166736.6	400729.1	PT-02	5/10/13	10:35	1.82	45.2	5.88	7.99	J	1.8	9.7	57.7	30.9	88.6	6.1		0.24		0.08	
1171339.0	389103.7	PT-03	5/10/13	13:07	2.79	41.01	6.96	152	J	0.1	21.2	42.2	36.5	78.7	6.4		0.46		0.09	
1170117.5	403913.7	PT-04	5/10/13	10:08	0.751	53.57	4.38	7.56	J	0.1	34.5	44.1	21.3	65.5	5		0.25		0.06	
1168335.7	399039.5	PT-05	5/10/13	11:15	2.2	41.49	6.42	120	J	3.5	12.5	52	32.2	84.1	6		0.37		0.08	
1171900.2	408790.4	PT-06	5/10/13	9:09	0.978	61.9	3.12	2.64	J	0.2	60	24.7	15.2	39.9	4		0.22		0.04	
1174529.7	385730.7	PT-07	5/10/13	11:58	0.564	72.56	0.87	179	J	0.1	98.8			1.2	1.9		0.19		0.03	U
1163462.9	400818.5	PT-08	5/10/13	14:11	2.06	41.72	6.59	4.18	J	0.6	4.4	61.9	33.2	95.1	5.1		0.23	U	0.09	
1175082.7	405415.7	PT-09	5/10/13	9:48	0.851	75.54	1.22	1.75	J	0.4	91.6	4.5	3.5	8	2.7		0.13	U	0.02	U
1171386.7	390740.3	PT-10	5/10/13	11:33	3.02	38.66	7.84	56.9	J	0.5	7.5	53.8	38.1	91.9	6		0.41		0.09	
1172503.2	384401.7	PT-11	5/10/13	12:21				7.35	J	0.1	9.6	52.6	37.8	90.4					0.11	
1174794.4	407316.0	PT-12	5/10/13	9:26				30.3	J	0.2	50	31.6	18.4	49.8					0.05	
1169408.6	391056.7	PT-13	5/10/13	13:23				48.2	J	0.1	7	56.5	36.4	93					0.09	
1167906.5	396019.8	PT-14	5/10/13	13:54				3.64	J	2.7	4.4	55.8	37.2	93					0.08	
1163218.3	404364.2	PT-15	5/10/13	14:31				3.13	J	0.1	6.6	63.8	29.5	93.3					0.09	
1103082.8	396705.4	SEQ-01	5/9/13	11:41	1.94	27.67	8.01	707		0.1	8.8	54	37.3	91.3	7		1.7		0.08	
1106182.2	390053.3	SEQ-02	5/9/13	9:36	2.73	35.96	7.18	302		0.1	17.6	49.4	33.2	82.6	7.9		1.4		0.1	
1106318.7	394975.3	SEQ-03	5/9/13	11:04	1.96	34.2	7.4	343		0.1	7.8	58.2	34.1	92.2	7.9		2		0.1	
1104586.7	391738.4	SEQ-04	5/9/13	10:11	1.52	42.37	7.05	212		0.1	24.9	40.6	34.4	75.1	7.5		1.1		0.08	
1109368.3	386681.8	SEQ-05	5/9/13	8:57	3.3	30.47	9.23	341		0.4	13.8	57.8	27.9	85.7	7.7		3.6		0.09	
1104538.5	390103.7	SEQ-06	5/9/13	9:52				44.8		0.1	14.8	50.1	35	85.1					0.09	
1106367.2	396612.5	SEQ-07	5/9/13	11:24				974		0.1	6.2	58.4	35.3	93.7					0.09	
1107727.0	386725.8	SEQ-08	5/9/13	9:21				84.8		0.1	11.5	54.1	34.4	88.5					0.1	

Indicates results where field replicates have been averaged

Results for Cd were taken from laboratory data sheets for the additional significant figure.

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cPAH TEQ (0 DL)	cPAH TEQ (1/2 DL)	cPAH TEQ (1 DL)	Dx/F TEQ (0 DL)	Dx/F TEQ (1/2 DL)	Dx/F TEQ (1 DL)	Total PCBs*	PCB TEQ (0 DL)	PCB TEQ (1/2 DL)	PCB TEQ (1 DL)
29.7	29.7	29.7	3.36	3.37	3.37	4840	0.165	0.173	0.181
18	18	18	2.85	3	3.15	4460	0.181	0.185	0.19
1.97	1.97	1.97	0.1	0.208	0.315	385	0.00116	0.00974	0.0183
17.1	17.1	17.1	1.87	1.87	1.87	2950	0.114	0.12	0.125
17.4	17.4	17.4	2.3	2.3	2.31	4810	0.16	0.168	0.176
32.6	32.6	32.6	5.29	5.29	5.29	11100	0.436	0.45	0.464
21.8	21.8	21.8	3.73	3.74	3.74	5420	0.252	0.257	0.263
4.05	4.05	4.05	0.661	0.714	0.766	897	0.0533	0.0548	0.0564
14	14	14	1.67	1.67	1.67	2460	0.101	0.104	0.108
16.6	16.6	16.6	2.93	2.93	2.93	3960	0.178	0.184	0.19
16.9	16.9	16.9	2.3	2.3	2.3	3780	0.147	0.153	0.159
2.94	2.94	2.94	0.517	0.556	0.595	740	0.0333	0.035	0.0367
9.41	9.41	9.41	1.87	1.87	1.87	2270	0.103	0.105	0.107
0.366	0.39	0.413	0.0353	0.119	0.204	155	0.000489	0.00839	0.0163
0.652	0.661	0.67	0.0734	0.18	0.288	262	0.0111	0.0118	0.0126
7.06	7.1	7.15	1.27	1.27	1.28	1720	0.0698	0.0721	0.0743
4.45	4.5	4.54	0.661	0.766	0.871	1110	0.0459	0.0476	0.0492
3.87	3.87	3.87	1.02	1.02	1.03	1110	0.0486	0.0499	0.0511
0.0433	0.122	0.201	0.0626	0.146	0.229	138	0.000416	0.00557	0.0107
2.93	2.93	2.93	0.493	0.56	0.627	560	0.0299	0.0317	0.0336
0.0476	0.13	0.212	0.0285	0.0986	0.169	137	0.000398	0.00672	0.013
0.643	0.652	0.661	0.0608	0.16	0.259	261	0.000749	0.00761	0.0145
0.433	0.457	0.48	0.0283	0.101	0.174	137	0.000406	0.00642	0.0124
3.43	3.47	3.51	0.441	0.515	0.589	787	0.0509	0.0528	0.0548
0.616	0.625	0.633	0.187	0.241	0.295	281	0.0188	0.0197	0.0205

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cPAH TEQ (0 DL) cPAH TEQ (1/2 DL) cPAH TEQ (1 DL) Dx/F TEQ (0 DL) Dx/F TEQ (1/2 DL) Dx/F TEQ (1 DL) Total PCBs\* PCB TEQ (0 DL) PCB TEQ (1/2 DL) PCB TEQ (1 DL)

20.6	20.6	20.6	2.69	2.7	2.7	2900	0.0885	0.0918	0.0951
21.7	21.7	21.7	3.5	3.51	3.51	4150	0.208	0.216	0.223
24.1	24.1	24.1	3.93	3.94	3.94	2790	0.122	0.125	0.128
16.7	16.7	16.7	1.78	1.91	2.03	3050	0.117	0.122	0.126
24.5	24.5	24.5	4.46	4.46	4.46	3610	0.147	0.155	0.163
8.17	8.17	8.17	1.19	1.32	1.46	1820	0.0803	0.084	0.0876
0.556	0.565	0.573	0.193	0.256	0.318	235	0.0204	0.022	0.0235
28.5	28.5	28.5	4.54	4.55	4.56	4760	0.145	0.15	0.155
1.33	1.33	1.34	0.342	0.399	0.457	446	0.0212	0.0233	0.0253
25.6	25.6	25.6	3.4	3.52	3.64	2880	0.119	0.124	0.129

21.8	21.8	21.8	3.04	3.11	3.18	3790	0.16	0.167	0.173
20.2	20.2	20.2	1.69	1.69	1.69	1890	0.0759	0.0786	0.0814
22.2	22.2	22.2	2.53	2.55	2.57	2740	0.108	0.111	0.114
16.3	16.3	16.3	1.81	1.83	1.86	1940	0.111	0.114	0.117
17.9	17.9	17.9	1.49	1.49	1.5	1680	0.0683	0.0699	0.0715