



### **Environmental Division**

**Certificate of Analysis** 

GARTNER LEE LTD. **ATTN:** KEN BOLDT

300 TOWN CENTRE BOULVARD

SUITE 300

MARKHAM ON L3R 5Z6

Reported On: 01-OCT-08 11:49 AM

Revision: 7

Lab Work Order #: L671792 Date Received: 19-AUG-08

Project P.O. #: KSL-00627 Job Reference: GU80-297

Legal Site Desc:

**CofC Numbers:** C065196, C065204, C065206, C065207

Other Information:

Comments: Please note that Revision 7 replaces and supersedes all previous revisions. The Hydrocarbons F2 (C10-16) and F3 (C16-C32)

results have been changed for the sample identified as BMW-3-40.

The detection limits for some metals analysis have been increased due to high levels of metals in the samples or interferences

encountered during analysis.

MATASHA MARKOVIC-MIROVIC

Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY. ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

	Sample ID Description	L671792-1	L671792-2	L671792-3	L671792-4	L671792-5
	Sampled Date Sampled Time Client ID	14-AUG-08 BMW-3-15	14-AUG-08 MW-5-10	14-AUG-08 MW-5-25	14-AUG-08 MW-8-10	14-AUG-08 MW-8-20
Grouping	Analyte	DIVIVY-3-13	10100-3-10	IVIVV-3-23	10100-0-10	IVIVV-8-20
SOIL	,					
Physical Tests	% Moisture (%)	20.3	11.0	12.1	8.40	7.89
i ilysiodi resis	pH (pH)	5.96	6.99	6.93	6.93	7.01
Metals	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
Wictais	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	31.8	18.3	19.0	19.8	22.5
	Cobalt (Co) (mg/kg)	8.5	6.6	6.3	6.8	6.4
	Copper (Cu) (mg/kg)	13.9	11.5	11.6	11.9	11.9
	Lead (Pb) (mg/kg)	9.3	6.6	6.8	7.9	13.5
	Mercury (Hg) (mg/kg)	<0.0050	<0.0050	0.0051	<0.0050	0.0066
	Nickel (Ni) (mg/kg)	15.7	9.4	9.0	10.6	10.6
	Zinc (Zn) (mg/kg)	44.0	33.0	33.5	40.5	38.6
Hydrocarbons	F2 (C10-C16) (mg/kg)	<30	<30	<30	<30	296
	F3 (C16-C34) (mg/kg)	<50	<50	<50	<50	121
	F1 (C6-C10) (mg/kg)	<10	<10	<10	<10	<10
Polychlorinated Biphenyls	PCB-1016 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1221 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1232 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1262 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
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	Sample ID Description Sampled Date	L671792-6	L671792-7	L671792-8	L671792-9	L671792-10
	Sampled Date Sampled Time	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08
	Client ID	BMW-3-40	BMW-30-40	MW-9-15	MW-9-25	MW-10-15
Grouping	Analyte					
SOIL						
Physical Tests	% Moisture (%)	18.3	21.7	8.83	9.95	8.09
	pH (pH)	6.45	6.60	7.29	7.27	6.57
Metals	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	35.0	28.4	18.1	16.6	22.3
	Cobalt (Co) (mg/kg)	9.0	7.1	6.4	6.2	5.0
	Copper (Cu) (mg/kg)	16.8	12.0	10.3	10.4	6.5
	Lead (Pb) (mg/kg)	10.9	8.0	11.6	9.7	5.6
	Mercury (Hg) (mg/kg)	0.0086	<0.0050	0.0070	0.0056	<0.0050
	Nickel (Ni) (mg/kg)	17.5	13.9	8.9	7.9	10.5
	Zinc (Zn) (mg/kg)	53.7	38.3	35.6	35.6	22.9
Hydrocarbons	F2 (C10-C16) (mg/kg)	<30	<30	<30	<30	<30
	F3 (C16-C34) (mg/kg)	<50	<50	69	<50	<50
	F1 (C6-C10) (mg/kg)	<10	<10	<10	<10	<10
Polychlorinated Biphenyls	PCB-1016 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1221 (mg/kg)	< 0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1232 (mg/kg)	< 0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1262 (mg/kg)	< 0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050

	Sample ID Description	L671792-11	L671792-12	L671792-13	L671792-14	L671792-15
	Sampled Date Sampled Time Client ID	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08
Grouping	Analyte	MW-10-35	MW-11-10	MW-11-40	MW-12-15	MW-12-30
SOIL	Paralyte					
	0(14)	40.0	0.75	0.05	0.50	40.0
Physical Tests	% Moisture (%)	12.2	8.75	8.65	9.59	10.8
	pH (pH)	6.48	6.68	6.75	6.82	6.92
Metals	Arsenic (As) (mg/kg)	93.6	<5.0	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	24.8	27.7	22.6	17.0	15.4
	Cobalt (Co) (mg/kg)	9.0	7.0	6.5	3.6	3.8
	Copper (Cu) (mg/kg)	8.4	11.2	10.0	6.0	5.4
	Lead (Pb) (mg/kg)	6.2	19.1	8.1	4.9	4.9
	Mercury (Hg) (mg/kg)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni) (mg/kg)	20.0	11.9	11.6	6.8	6.9
	Zinc (Zn) (mg/kg)	27.0	43.9	33.3	23.3	21.0
Hydrocarbons	F2 (C10-C16) (mg/kg)	<30	<30	<30	<30	<30
	F3 (C16-C34) (mg/kg)	<50	1230	1150	<50	<50
	F1 (C6-C10) (mg/kg)	<10	<10	<10	<10	<10
Polychlorinated Biphenyls	PCB-1016 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1221 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1232 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1262 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050

	Sample ID Description	L671792-16	L671792-17	L671792-18	L671792-19	L671792-20
	Sampled Date Sampled Time	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08
N !	Client ID	MW-13-15	MW-13-30	MW-14-A-15	MW-14-A-30	MW-140-A-30
Grouping	Analyte					
SOIL						
Physical Tests	% Moisture (%)	12.5	8.23	11.6	16.6	16.5
	pH (pH)	5.72	6.34	6.60	6.68	6.74
Metals	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	17.5	14.9	28.0	28.1	27.4
	Cobalt (Co) (mg/kg)	5.1	3.6	6.2	6.7	6.1
	Copper (Cu) (mg/kg)	7.1	3.5	11.0	12.1	11.8
	Lead (Pb) (mg/kg)	5.7	3.7	8.0	8.3	8.0
	Mercury (Hg) (mg/kg)	0.0117	<0.0050	<0.0050	<0.0050	<0.0050
	Nickel (Ni) (mg/kg)	8.6	6.6	13.3	14.2	13.9
	Zinc (Zn) (mg/kg)	31.4	17.2	33.2	35.8	33.8
Hydrocarbons	F2 (C10-C16) (mg/kg)	<30	<30	<30	<30	<30
•	F3 (C16-C34) (mg/kg)	76	<50	<50	<50	<50
	F1 (C6-C10) (mg/kg)	<10	<10	<10	<10	<10
Polychlorinated Biphenyls	PCB-1016 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1221 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1232 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1262 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050

	Sample ID Description	L671792-21	L671792-22	L671792-23	L671792-24	L671792-25
	Sampled Date Sampled Time	14-AUG-08	14-AUG-08	14-AUG-08	14-AUG-08	15-AUG-08
Grouping	Client ID Analyte	MW-16-15	MW-16-40	MW-15-15	MW-15-25	MW-18-15
	Allalyte					
SOIL						
Physical Tests	% Moisture (%)	11.3	18.5	20.7	17.1	21.2
	pH (pH)	6.58	6.60	7.47	7.79	6.78
Metals	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	31.9	29.5	17.1	17.9	15.8
	Cobalt (Co) (mg/kg)	7.8	7.8	6.5	7.0	3.8
	Copper (Cu) (mg/kg)	14.2	12.3	9.8	11.2	9.5
	Lead (Pb) (mg/kg)	8.4	8.0	8.0	7.4	7.2
	Mercury (Hg) (mg/kg)	<0.0050	<0.0050	<0.0050	<0.0050	0.0120
	Nickel (Ni) (mg/kg)	16.0	15.2	9.4	9.3	8.0
	Zinc (Zn) (mg/kg)	43.1	39.3	41.3	43.9	31.4
Hydrocarbons	F2 (C10-C16) (mg/kg)	286	49	118	119	<30
	F3 (C16-C34) (mg/kg)	133	<50	235	302	<50
	F1 (C6-C10) (mg/kg)	<10	<10	<10	<10	<10
Polychlorinated Biphenyls	PCB-1016 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1221 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1232 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1262 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050

	Sample ID Description	L671792-26	L671792-27	L671792-28	L671792-29	L671792-30
	Sampled Date Sampled Time	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08
Grouping	Client ID Analyte	MW-18-30	MW-17-15	MW-17-40	MW-20-35	MW-20-15
SOIL	Allayto					
	0/ Maintain (0/)	40.4	0.40	40.5	5.00	5.00
Physical Tests	% Moisture (%)	18.4	9.49	10.5	5.00	5.90
	pH (pH)	6.30	6.31	6.50	7.00	7.49
Metals	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	17.9	14.0	20.8	16.7	18.0
	Cobalt (Co) (mg/kg)	3.8	3.8	5.5	4.7	5.9
	Copper (Cu) (mg/kg)	10.1	6.6	13.9	10.0	12.3
	Lead (Pb) (mg/kg)	8.9	5.4	8.7	10.8	10.6
	Mercury (Hg) (mg/kg)	0.0085	<0.0050	0.0052	<0.0050	<0.0050
	Nickel (Ni) (mg/kg)	8.7	6.6	10.2	8.7	9.6
	Zinc (Zn) (mg/kg)	35.5	18.2	32.0	25.6	37.4
Hydrocarbons	F2 (C10-C16) (mg/kg)	<30	<30	<30	<30	<30
	F3 (C16-C34) (mg/kg)	<50	<50	<50	<50	<50
	F1 (C6-C10) (mg/kg)	<10	<10	<10	<10	<10
Polychlorinated Biphenyls	PCB-1016 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1221 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1232 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1262 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050

	Sample ID Description	L671792-31	L671792-32	L671792-33	
	Sampled Date Sampled Time	15-AUG-08	15-AUG-08	15-AUG-08	
	Client ID	MW-200-35	MW-19-20	MW-19-50	
Grouping	Analyte				
SOIL					
Physical Tests	% Moisture (%)	5.29	10.3	10.4	
-	pH (pH)	7.52	6.30	6.29	
Metals	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	
	Chromium (Cr) (mg/kg)	20.8	14.7	12.1	
	Cobalt (Co) (mg/kg)	5.0	3.9	3.9	
	Copper (Cu) (mg/kg)	10.8	7.4	7.1	
	Lead (Pb) (mg/kg)	10.7	6.4	7.8	
	Mercury (Hg) (mg/kg)	<0.0050	<0.0050	<0.0050	
	Nickel (Ni) (mg/kg)	10.3	7.2	6.6	
	Zinc (Zn) (mg/kg)	26.8	26.5	29.0	
Hydrocarbons	F2 (C10-C16) (mg/kg)	<30	<30	<30	
riyurocarbons	F3 (C16-C34) (mg/kg)	<50 <50	<50 <50	<50 <50	
Polychlorinated Biphenyls	F1 (C6-C10) (mg/kg) PCB-1016 (mg/kg)	<10 <0.050	<10 <0.050	<10 <0.050	
Diplicityis	PCB-1221 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1232 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1242 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1248 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1254 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1260 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1262 (mg/kg)	<0.050	<0.050	<0.050	
	PCB-1268 (mg/kg)	<0.050	<0.050	<0.050	
	Total Polychlorinated Biphenyls (mg/kg)	<0.050	<0.050	<0.050	
	Total Folychionnated Diphenyis (mg/kg)	<0.050	<0.050	<0.050	

	Sample ID Description	L671792-34	L671792-35	L671792-36	L671792-37	L671792-38
	Sampled Date Sampled Time	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08
Grouping	Client ID Analyte	MW-5	MW-11	MW-200	MW-19	MW-17
	Analyte					
WATER	Hardana (a. 0. 000) (a. a.(i.)	440	450	400	450	400
Physical Tests	Hardness (as CaCO3) (mg/L)	418	458	109	150	128
Total Metals	Arsenic (As)-Total (mg/L)	<0.00050	0.0011	<0.00050	<0.00050	0.00062
	Cadmium (Cd)-Total (mg/L)	0.000039	<0.000034	0.000028	0.000210	0.000056
	Chromium (Cr)-Total (mg/L)	0.0051	<0.0020	<0.0010	0.0014	0.0014
	Cobalt (Co)-Total (mg/L)	0.00030	0.00146	<0.00030	0.00199	0.00285
	Copper (Cu)-Total (mg/L)	0.0043	<0.0020	0.0035	0.0033	0.0069
	Lead (Pb)-Total (mg/L)	0.00142	<0.0010	<0.00050	<0.00050	<0.00050
	Mercury (Hg)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Nickel (Ni)-Total (mg/L)	0.0086	0.0026	<0.0010	0.0041	0.0024
	Zinc (Zn)-Total (mg/L)	0.0366	<0.0050	<0.0050	0.0856	<0.0050
Hydrocarbons	F2 (C10-C16) (mg/L)	<0.30	<0.30	2.33	<0.30	<0.30
	F3 (C16-C34) (mg/L)	0.33	0.47	<0.30	0.32	0.33
	F1 (C6-C10) (mg/L)	<0.10	<0.10	0.74	<0.10	<0.10
Polychlorinated Biphenyls	PCB-1016 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1221 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1232 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1242 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1248 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1254 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1260 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1262 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	PCB-1268 (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Total Polychlorinated Biphenyls (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

	Sample ID Description	L671792-39	L671792-40		
	Sampled Date Sampled Time Client ID	15-AUG-08	15-AUG-08		
Grouping	Analyte	MW-18	MW-20		
	, and yet				
WATER					
Physical Tests	Hardness (as CaCO3) (mg/L)	51.8	113		
Total Metals	Arsenic (As)-Total (mg/L)	<0.00050	<0.00050		
	Cadmium (Cd)-Total (mg/L)	0.000025	0.000024		
	Chromium (Cr)-Total (mg/L)	<0.0010	<0.0010		
	Cobalt (Co)-Total (mg/L)	<0.00030	<0.00030		
	Copper (Cu)-Total (mg/L)	0.0023	0.0029		
	Lead (Pb)-Total (mg/L)	<0.00050	<0.00050		
	Mercury (Hg)-Total (mg/L)	<0.000020	<0.000020		
	Nickel (Ni)-Total (mg/L)	0.0014	<0.0010		
	Zinc (Zn)-Total (mg/L)	0.0081	<0.0050		
Hydrocarbons	F2 (C10-C16) (mg/L)	<0.30	1.99		
	F3 (C16-C34) (mg/L)	<0.30	<0.30		
	F1 (C6-C10) (mg/L)	<0.10	0.75		
Polychlorinated Biphenyls	PCB-1016 (mg/L)	<0.0010	<0.0010		
	PCB-1221 (mg/L)	<0.0010	<0.0010		
	PCB-1232 (mg/L)	<0.0010	<0.0010		
	PCB-1242 (mg/L)	<0.0010	<0.0010		
	PCB-1248 (mg/L)	<0.0010	<0.0010		
	PCB-1254 (mg/L)	<0.0010	<0.0010		
	PCB-1260 (mg/L)	<0.0010	<0.0010		
	PCB-1262 (mg/L)	<0.0010	<0.0010		
	PCB-1268 (mg/L)	<0.0010	<0.0010		
	Total Polychlorinated Biphenyls (mg/L)	<0.0010	<0.0010		
	, , , , , , , , , , , , , , , , , , , ,				

### **Reference Information**

#### **Additional Comments for Sample Listed:**

Samplenum	Matrix	Report Remarks	Sample Comments
Methods Listed (if	applicable):		
ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)

F1-MET-PT-FID-VA

Soil

CCME by Purge and Trap with GCMS

EPA 8260B & 524.2

This analysis is carried out in accordance with the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For F1 (C6-C10), a subsample of the sediment/soil is extracted with methanol and analysed by purge & trap GC/FID.

#### Notes:

- 1. F1 (C6-C10): Sum of all hydrocarbons that elute between nC6 and nC10.
- 2. Reported results are expressed as milligrams per dry kilogram.
- This method is validated for use.
- 4. Data from analysis of quality control samples is available upon request.

F1-PT-FID-VA

Water

CCME F1 By P&T with GCFID

EPA SW-846, METHOD 8260

This analysis is based on the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For F1 (C6-C10), the sample undergoes a purge and trap extraction prior to analysis by GC/FID.

F1 (C6-C10): Sum of all hydrocarbons that elute between nC6 and nC10.

F2-F3-SF-FID-VA

Water

Extractable Hydrocanbons in water GCFID

CWS (CCME)

Petroleum Hydrocarbons (F2-F3) in Water

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, published by the United States Environmental Protection Agency (EPA) and the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." The procedure involves a liquid-liquid extraction of the entire water sample using dichloromethane prior to capillary column gas chromatography with flame ionization detection (GC/FID).

A silica gel cleanup procedure is applied before GC analysis, which is intended to selectively remove most naturally occurring organics.

F2F3-TUMB-H/A-FID-VA Soil

Petroleum Hydrocarbon by Tumbler GCFID

CCME

This analysis is carried out in accordance with the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2000." For C10 to C34 hydrocarbons (F2 & F3) a subsample of the sediment/soil is extracted with 1:1 hexane:acetone using a rotary extractor. The extract undergoes a silica-gel clean-up to remove polar compounds and is analyzed by on-column GC/FID.

#### Notes

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. This method is validated for use.
- 4. Data from analysis of quality control samples is available upon request.
- 5. Reported results are expressed as milligrams per dry kilogram.

HARDNESS-CALC-VA

Water

Hardness

**APHA 2340B** 

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

**HG-CCME-CVAFS-VA** 

Soil

CVAFS Hg in Soil (CCME)

CCME

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 7000 series).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

### **Reference Information**

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Analytical Method Reference(Based On)

**HG-TOT-CCME-CVAFS-** Water

Total Mercury in Water by CVAFS (CCME)

EPA 245.7

VA
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-CSR-FULL-ICP-VA Soil

Metals in Soil by ICPOES (CSR SALM)

**BCMELP CSR SALM METHOD 8** 

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

**MET-CSR-MS-VA** 

Soil

Metals in Soil by ICPMS (CSR SALM)

BCMELP CSR SALM Method 8

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by either hotplate or block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasmamass spectrometry (EPA Method 6020A).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

MET-TOT-CCME-ICP-VA Water

Total Metals in Water by ICPOES (CCME)

EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-CCME-MS-VA Water

Total Metals in Water by ICPMS (CCME)

EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

**MOISTURE-VA** 

Soil

Moisture content

ASTM METHOD D2794-00

This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

**MOISTURE-VA** 

Soil

ASTM METHOD D2794-00

This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

PCB-SE-ECD-VA

Soil

PCB by Extraction with GCECD

EPA 3630/8082 GCECD

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3500, 3620, 3630, 3660, 3665 & 8082, published by the United States Environmental Protection Agency (EPA). The procedure involves a solid-liquid extraction of a subsample of the sediment/soil using a mixture of hexane and acetone. Water is added to the extract and the resulting hexane extract undergoes one or more of the following clean-up procedures (if required): florisil clean-up, silica gel clean-up, sulphur clean-up and/or sulphuric acid clean-up. The final extract is analysed by capillary column gas chromatography with electron capture detection (GC/ECD).

### **Reference Information**

#### Methods Listed (if applicable):

ALS Test Code Matrix Test Description Analytical Method Reference(Based On)

PCB-SF-ECD-VA Water PCB by Extraction with GCECD EPA 3510/8082 Liq-Liq GCECD

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510, 3620, 3660, 3665 & 8082, published by the United States Environmental Protection Agency (EPA). The procedure involves a liquid-liquid extraction of the entire water sample using dichloromethane. The extract is then solvent exchanged to hexane followed by one or more of the following clean-up procedures (if required): florisil clean-up, sulphur clean-up and/or sulphuric acid clean-up. The final extract is analysed by capillary column gas chromatography with electron capture detection (GC/ECD).

PH-1:2-VA Soil CSR pH by 1:2 Water Leach

BC WLAP METHOD: PH, ELECTROMETRIC, SOIL

This analysis is carried out in accordance with procedures described in the pH, Electrometric in Soil and Sediment method - Section B Physical/Inorganic and Misc. Constituents, BC Environmental Laboratory Manual 2007. The procedure involves mixing the dried (at <60°C) and sieved (10 mesh /2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water. The pH of the solution is then measured using a standard pH probe.

TL-CSR-MS-VA Soil ICPMS TI in Soil by CSR SALM

**BCMELP CSR SALM Method 8** 

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by either hotplate or block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma mass spectrometry (EPA Method 6020A).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

\*\* Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

#### GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

Jo C coc # C065196

**Environmental Division** 

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COMPANY: CONTACT ADDRESS:

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DATE & TIME:

RECEIVED BY:

AUG. 16/08

JOHNSON

RELINQUISHED BY

DARRIN

DATE & TIME:

DATE & TIME:

RECEIVED BY:

SAMPLE CONDITION (lab use only)