

**REMEDIAL ACTION PLAN FOR
CONTAMINATED SOIL**

**CANADIAN PACIFIC WESTON YARDS
WINNIPEG, MANITOBA**

Submitted to:
Manitoba Conservation
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Attention: Warren Rospad

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1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by Canadian Pacific (CP) to develop a remedial action plan (RAP) to deal with soil impacts associated with historical rail yard activities in the vicinity of 505 Keewatin Street in Winnipeg, Manitoba (The Site), as indicated in Figure 1. It is Golder's understanding that the remedial activities are being conducted to remove stockpiled impacted soils so as to provide for redevelopment of the Site. The purpose of the RAP is to describe the activities to be undertaken by CP to remediate the Site.

1.1 Background

The Site is currently used for the storage of stockpiled soil, rail track materials, and in the winter is used as a snow dump. It is located approximately 200 m east of Keewatin Street in the Central Portion of the CP Weston Yard. Investigations were conducted in 2002, 2007 and 2008, with the main purpose of characterizing the soil chemistry of two areas of stockpiled soils (Figure 2). The work conducted in 2007 and 2008 was part of an investigation to determine the feasibility for redeveloping the Site for use as a trucking/cross dock facility. A summary of the previous investigations is provided below.

1.1.1 Dillon Test Pit Investigation (2002)

Dillon Consulting Limited (Dillon) was retained by Canadian Pacific to characterize material stockpiled on Site as part of a track relocation project. The results of the material characterization investigation were presented in the report entitled "*Material Characterization, CPR Weston Yard, Winnipeg Manitoba*", dated September 6, 2002.

Following are the results of the material characterization:

- work carried out at the Site included representative sampling and analysis of 7,000 m³ of material that was excavated and stockpiled during a track relocation project. Samples were analyzed for hydrocarbons, total metals, and leachable metals;
- the concentration of the F3 fraction of hydrocarbons found in the stockpiled material exceeded the Canadian Council of Ministers of the Environment (CCME) Industrial Land Use criteria. It was suggested that the detected hydrocarbons could represent weathered motor oil;
- concentrations of several metals exceeded the CCME Industrial Land Use criteria. The metals in excess of the CCME criteria included antimony, arsenic, copper, lead, nickel, titanium, and zinc; and,
- the results of leachable metals testing were below the Transportation of Dangerous Goods regulatory criteria. Thus, the material is not classified as hazardous waste.

1.1.2 Golder Phase I and II Environmental Site Assessment 2007

Golder was retained by Consolidated Fastfrate Inc. (Fastfrate) to conduct a Phase I Environmental Site Assessment (ESA) of the Site and an adjacent property in April 2007. The results of the Phase I ESA were presented in the report entitled "*Draft Report on Phase I Environmental Site Assessment at 477 and 505 Keewatin Street*", dated May 2007. The Phase I ESA was followed up with a Phase II ESA at the Site, the results of which were presented in the report entitled "*Draft Report on Phase II Environmental Site Assessment, Consolidated Fastfrate Site, Winnipeg Manitoba*", dated July 2007.

The Phase II ESA consisted of drilling six boreholes and collection of soil and groundwater samples. Based on the results of the Phase II ESA, the following issues of environmental concern were identified:

- concentrations of Volatile Organic Compounds (VOC) in all soil samples analyzed were below detection limits;
- concentrations of petroleum hydrocarbons, metals and one Polycyclic Aromatic Hydrocarbon (PAH) parameter were detected at concentrations in excess of criteria in soil samples collected from the Site. All exceedances of soil guideline criteria were detected in soil samples collected from soil material believed to be fill, stockpiled on the Site from previous CP activities;
- impacts are present within the soil stockpile on the Site. The stockpiled area is divided into two parts, which are separated by a drainage ditch. Approximately 20,000 m³ of stockpiled soil would have to be removed to level the Site. Approximately 10,000 m³ of this soil is located south of the drainage ditch and approximately 10,000 m³ is located north of the drainage ditch; and,
- concentrations of VOCs, PAHs, and dissolved metals in all groundwater samples collected were below applicable guidelines.

1.1.3 Golder Test Pit Investigation 2008

Based on the results of the Phase II ESA, Golder was retained by Fastfrate to conduct a Test Pit Investigation of the soil stockpile located on the Site. The purpose of the Test Pit Investigation was to investigate the extent of contaminated soil within the stockpile. The results of the Test Pit Investigation were presented in the report entitled "*Draft Report on Test Pit Investigation, Consolidated Fastfrate Site, Winnipeg Manitoba*", dated February 2008.

Following are the results of the Test Pit Investigation:

- concentrations of petroleum hydrocarbons were detected at concentrations in excess of criteria in soil samples collected from six of the forty five test pits excavated; and,
- the volume of petroleum hydrocarbon contaminated soil was estimated to be approximately 2,900 m³.

1.1.4 Further Analysis of Test Pit Soil Samples 2008

Golder was subsequently requested by CP to submit test pit soil samples to Maxxam Analytics for metals analysis. A total of 39 soil samples were submitted. The 39 samples consisted of one sample from each of the test pits excavated during the 2008 Golder Test Pit Investigation except from the test pits found to have petroleum hydrocarbon contamination. The results of the metals analysis are included in Table 1.

The results of the further analysis of test pit soil samples are summarized as follows:

- 34 of the 39 samples submitted contained one or more of the metals antimony, arsenic, chromium, copper, lead, nickel, selenium, and zinc in excess of CCME criteria;
- the volumes of metals impacted soil were estimated to be approximately 6,480 m³ to 8,550 m³ in the south stockpile and approximately 1,440 m³ to 3,600 m³ in the north stockpile; and,
- the volumes of soil without metals and petroleum hydrocarbon impacts above CCME criteria were estimated to be approximately 480 m³ to 980 m³ in the south stockpile and approximately 720 m³ to 960 m³ in the north stockpile.

1.2 Applicable Guidelines and Soil Remediation Criteria

1.2.1 Petroleum Hydrocarbons

The principal documents for the evaluation of the environmental quality of soil at hydrocarbon impacted sites in Manitoba are the *Canadian Council of Ministers of the Environment Canadian Soil Quality (SQG) Guidelines for the Protection of Environmental and Human Health* for benzene, toluene, ethylbenzene, and xylenes (BTEX)(CCME SQG 2004) and the *CCME Canada-Wide Standards for Petroleum Hydrocarbon (PHC) in Soil*, (CCME PHC 2001, revised January 2008). The CCME PHCs are used for comparison to petroleum hydrocarbon fractions F1 to F4 concentrations in soil.

To determine applicable regulatory criteria for comparison to chemical analytical results, potential receptors of the contaminants must be identified. The City of Winnipeg provides a domestic water supply to each business and residence. During a brief inspection of the vicinity of the Site, no groundwater wells were observed other than three monitoring wells installed by Golder in June 2007. A search of the Manitoba Water Well database revealed five water wells located within a two kilometre radius of the Site. Well details indicate that the water is drawn from a limestone aquifer approximately 10 to 15 m below surface with a cover layer consisting of a lacustrine clay deposit. The nearest surface water body to the Site is the Red River, located 4.8 km east of the Site.

The Site and surrounding area are of industrial and commercial land use and fine grained soils. Given the 10 to 15 m of fine grained soils inhibiting contaminant migration, the CCME SQG 2004 and CCME PHC potable groundwater guideline/exposure pathway can be eliminated. The applicable CCME SQG 2004 exposure pathway for this site is for vapour inhalation exposure pathway for benzene, and the soil contact guideline for toluene, ethylbenzene and xylenes. The applicable remedial objective for the PHC fractions are provided in CCME PHC 2001 for Industrial fine grained surface soils Management Limit. Table 1, attached, provides for a listing of the petroleum hydrocarbon concentrations in fine grained soils remedial objectives.

1.2.2 Metals

In Manitoba, the applicable criteria for metals concentration in soil are the CCME Canadian Environmental Quality Guidelines (EQG) for the Protection of Environmental and Human Health (CCME EQG 2006) for industrial land use.

The generic soil quality guidelines from the CCME EQG 2006 have been previously applied in comparing soil sample analysis results with applicable criteria. It is proposed that the Site specific soil quality guidelines be considered as remedial objectives for the Site. Several exposure pathways, including direct soil contact, ingestion of soil and of food grown in soil, are used to derive conservative generic guidelines. Generally, these guidelines are derived using the exposure pathways expected for the receptors selected for each land use. In some cases, not all of these exposure pathways will be relevant given the current and likely future use of the site.

The Site and surrounding area are of industrial and commercial land use and fine grained soils. Future land use will remain the same, with no expectation of a high amount of ecological productivity of the Site for future agricultural or residential land use. The Site is currently part of a large rail yard, with little ecological habitat present.

It is therefore proposed to eliminate the environmental soil contact exposure pathway and the next most conservative pathway for human health exposure scenarios be used as the remedial objective for the Site. Guidelines derived from this exposure pathway are calculated based on the metal under consideration and exposure including by direct contact, ingestion, and inhalation toxicity data. Table 1, attached, provides for a listing of the metal concentrations in fine grained soils remedial objectives.

2.0 SITE INFORMATION

2.1 Site Description

The Site is currently defined as the area required for the proposed redevelopment of the Site (Figure 2). It currently contains two areas of stockpiled soils, each approximately 10,000 m³ in volume (20,000 m³). It is CP's intention to remediate the Site to facilitate the redevelopment of the area to the west of the Site currently used as a truck cross dock facility as well as the Site itself into a new truck cross dock facility.

In order to facilitate this redevelopment, the removal of the stockpiled soil is required. Previous investigations at the Site have identified metals and hydrocarbon impacted soils in the stockpiles which will require disposal at a Manitoba Conservation approved location.

The two soil stockpiles are the subject of the RAP. The stockpiles were characterized through the excavation of test pits and boreholes throughout. The soils generally consist of fill of variable soil types, reportedly, from historical track decommissioning activities. The stockpiles (north stockpile and south stockpile) are separated by a drainage ditch as shown on Figure 2.

Boreholes drilled at the Site indicate underlying soils consisting of fill was encountered in all boreholes from surface to a maximum depth of approximately 3.1 m bgs. The fill was comprised of sand and gravel or silty clay with some areas of trace sand. This surficial layer overlies native deposits of clay. The clay deposits are generally brown in color, with variable silt content and were encountered to maximum depth.

2.2 Groundwater Conditions and Usage

The relative elevations of monitoring wells and the depth to groundwater were measured in June 2007. The depth to groundwater ranged from 0.73 m bgs to 3.30 m bgs. The initial relative elevation data suggests that the general direction of groundwater flow at the Site is towards the northeast towards the drainage ditch located in the eastern portion of the Site.

A search of the Manitoba Water Well database revealed five water wells located within a two kilometre radius of the Site. Three of the five wells are listed as observation wells and two are listed as production wells. The purpose of the production wells is unknown. Well details indicate that the observation wells were constructed to observe water in a limestone aquifer approximately 10 to 15 m below surface with a cover layer consisting of a lacustrine clay deposit. Well details were not available for the production wells.

3.0 SUMMARY OF IMPACTS

Previous investigations identified concentrations of petroleum hydrocarbons and metals within the stockpiled material in excess of CCME criteria. The results of the 2007 and 2008 Golder investigations are provided in Appendix I. A summary of the impacts is provided below.

3.1 Petroleum Hydrocarbons

The 2007 Golder Phase II ESA and the 2008 Golder Test Pit Investigation identified petroleum hydrocarbon fractions F2, F3, and F4 in the stockpiled soil at concentrations in excess of CCME criteria. Concentrations exceeding criteria ranged from approximately 1.5 to 11 times greater than the criteria. The estimated volume of petroleum hydrocarbon contaminated soil is approximately 2,900 m³ to 4,000 m³ within the area of the south stockpile shown on Figure 2.

3.1.1 Metals

Further analysis of the 2008 Golder Test Pit Investigation soil samples identified arsenic and lead in the stockpiled soil at concentrations in excess of CCME criteria. The estimated volume of soil contaminated with metals is approximately 6,480 m³ to 8,550 m³ in the south stockpile and approximately 1,440 m³ to 3,600 m³ in the north stockpile within the areas shown on Figure 2.

4.0 PROPOSED REMEDIAL ACTIONS

4.1 Excavation of Impacted Soil

The on site remedial efforts will commence with the excavation and disposal of 2,900 to 4,000 m³ of hydrocarbon impacted soil located in the central portion of the southern stockpile. Upon completion of the excavation of the known hydrocarbon impacted soils, excavation and disposal of the identified metals impacted soils will commence. It is expected that a CP approved contractor will be utilized to excavate and haul soil off-Site. Any remaining soil with hydrocarbon and metals impacts below CCME criteria will be managed on-Site.

The limits of the hydrocarbon and metals impacted soils will be determined with the assistance of Golder personnel based on previous laboratory soil chemistry and field screening based on the use of a Photoionization Detectorm, field observation, and limited confirmatory sampling.

4.2 Disposal of Soils

Hydrocarbon impacted soil will be loaded into trucks and transported to the MidCanada Soil Treatment Facility in Île Des Chênes, Manitoba for disposal. Metals impacted and approved hydrocarbon impacted soils will be loaded into trucks and transported to the BFI Landfill located approximately 17 km northwest of Winnipeg, Manitoba for disposal.

4.3 Schedule, Inspection and Reporting

This Remedial Action Plan is scheduled to be undertaken in October 2008, pending the receipt of appropriate approvals, and contractor availability. During excavation and removal of soil, Golder will provide field screening where possible through the combination of visual and olfactory observations, headspace screening (to the extent useful) and confirmatory testing. Golder personnel will co-ordinate the excavation activities, document contractor activities.

A report detailing the remediation activities will be provided upon completion of the Site work and receipt of all laboratory results.

5.0 LIMITATIONS AND USE

This report was prepared for the exclusive use of CP. Golder or its employees will not be responsible for any use of the information contained in this report, or any reliance on or decisions made based on it, by an unauthorized third party.

Our findings are based on data and information collected during the Site investigation, supported by data and information collected during previous site investigations. No assurance is made regarding changes in Site conditions subsequent to the dates of our investigations. Further, subsurface soil and groundwater conditions were determined at the test pit locations only. Conditions may change beyond and between the investigated locations.

If additional information is discovered in the future, including excavations, borings, or other studies, Golder should be requested to re-evaluate the conclusions presented in this report and provide appropriate amendments.

6.0 CLOSURE

We trust the above meets your present requirements. If you have any questions or require additional details, please contact the undersigned.

Yours truly,

GOLDER ASSOCIATES LTD.



Kevin Beechinor, B.Sc.
Environmental Specialist



Ty Garde, P.Eng.
Principal, Senior Engineer

CB/KB/la

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TABLES

Table 1 - A
Summary of Soil Chemistry Analyses - Metals
Canadian Pacific
Winnipeg, Manitoba

Sample		CCME	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6	TP-7	TP-8	TP-9	TP-10	TP-11	TP-12	TP-13
Sampling Date		SQGs ¹	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008	18/01/2008
COC Number	Units		EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008
Metals															
Aluminum (Al)	ug/g		10,000	11,000	9,700	8,200	7,000	7,700	7,200	6,800	11,000	8,100	8,700	6,100	10,000
Antimony (Sb)	ug/g		2.8	6.0	42	75	50	98	90	30	13	82	110	71	49
Arsenic (As)	ug/g	12	8	10	30	18	15	38	25	11	8	26	39	22	19
Barium (Ba)	ug/g		250	1,000	710	620	770	1,000	710	430	1,100	1,400	1,100	760	920
Beryllium (Be)	ug/g		0.5	0.6	0.7	0.5	0.4	ND	ND	0.4	0.7	ND	ND	ND	0.8
Cadmium (Cd)	ug/g	192	0.3	1.3	3.7	3.9	1.7	3	2	1.0	0.8	12	14	3	2.1
Calcium (Ca)	ug/g		71,000	72,000	84,000	56,000	79,000	70,000	71,000	89,000	82,000	61,000	58,000	63,000	63,000
Chromium (Cr)	ug/g	2300	26	44	72	61	40	47	52	69	37	67	110	33	38
Cobalt (Co)	ug/g		10	8.5	13	12	10	15	16	9.0	8.1	19	37	18	15
Copper (Cu)	ug/g	16000	33	200	1,200	1,500	360	1,900	1,500	390	210	1,500	2,500	880	830
Iron (Fe)	ug/g		22,000	26,000	50,000	62,000	43,000	90,000	86,000	39,000	28,000	76,000	120,000	76,000	59,000
Lead (Pb)	ug/g	740	51	350	1,500	1,700	1,100	2,300	2,200	870	390	4,500	6,700	2,200	1,200
Magnesium (Mg)	ug/g		35,000	28,000	28,000	26,000	39,000	25,000	27,000	40,000	35,000	25,000	24,000	25,000	27,000
Manganese (Mn)	ug/g		510	450	820	1,200	500	690	830	440	380	770	1,200	740	560
Molybdenum (Mo)	ug/g		1.1	2.2	5.8	6.3	4.2	ND	5	2.8	2.9	ND	3.8	ND	3.0
Nickel (Ni)	ug/g		29	36	230	180	190	360	400	160	89	350	1,900	860	470
Phosphorus (P)	ug/g		570	640	2,500	830	650	1,400	920	770	650	940	1,600	920	1,100
Potassium (K)	ug/g		2,500	1,600	1,800	1,600	1,500	ND	ND	1,600	1,700	ND	1,800	ND	2,100
Selenium (Se)	ug/g	1135	0.6	0.9	6.0	1.4	0.9	ND	ND	1.2	1.0	8	3.7	ND	1.8
Silver (Ag)	ug/g		ND	0.2	1.1 (1)	1.0	0.6	ND	ND	0.5	0.3	ND	2	ND	1.1
Sodium (Na)	ug/g		630	2,000	1,500	1,000	1,100	1,300	ND	990	1,900	1,400	1,600	ND	1,300
Strontium (Sr)	ug/g		100	410	250	170	220	340	170	180	440	270	270	170	320
Thallium (Tl)	ug/g	1	0.23	0.16	0.49	0.18	0.12	ND	ND	0.12	0.15	ND	ND	ND	0.29
Uranium (U)	ug/g	300	1.2	2.0	2.8	1.4	1.3	1.6	1.1	1.6	2.1	1.4	1.7	1.1	2.2
Vanadium (V)	ug/g		36	29	28	28	21	ND	ND	22	25	ND	26	ND	31
Zinc (Zn)	ug/g		81	370	1,000	1,600	1,100	2,400	2,100	800	330	6,000	9,700	2,600	1,500

ND = Not detected

1. Canadian Council of Ministers of the Environment (CCME) Environmental Quality Guidelines (EQGs) for Protection of Human Health for Industrial land use
 Concentrations that are **Bold** exceed the guideline.

Table 1 - B
Summary of Soil Chemistry Analyses - Metals
Canadian Pacific
Winnipeg, Manitoba

Sample		CCME	TP-14	TP-15	TP-16	TP-17	TP-19	TP-20	TP-21	TP-22	TP-23	TP-24	TP-25	TP-26	TP-27
Sampling Date		SQGs ¹	18/01/2008	18/01/2008	18/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008
CQC Number	Units		EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008
Metals															
Aluminum (Al)	ug/g		9,300	11,000	5,600	7,900	14,000	8,700	16,000	13,000	13,000	11,000	7,700	8,900	8,800
Antimony (Sb)	ug/g		51	85	91	25	0.4	6.6	0.3	6.7	1.4	3.3	0.5	6.9	0.4
Arsenic (As)	ug/g	12	20	21	18	11	32	7	14	25	9	6	24	9	5
Barium (Ba)	ug/g		1,300	800	520	520	150	320	140	210	220	290	92	270	120
Beryllium (Be)	ug/g		1.0	ND	0.2	0.5	0.7	0.5	0.9	0.5	0.7	0.5	0.4	0.5	0.5
Cadmium (Cd)	ug/g	192	1.5	3	2.4	2.5	0.3	1.1	0.3	0.4	0.9	0.7	0.3	0.6	0.2
Calcium (Ca)	ug/g		72,000	71,000	69,000	46,000	59,000	71,000	46,000	41,000	93,000	80,000	80,000	86,000	110,000
Chromium (Cr)	ug/g	2300	27	49	55	50	31	100	37	34	28	51	18	41	22
Cobalt (Co)	ug/g		10	17	10	11	12	8.8	16	12	11	9.3	7.0	8.2	7.2
Copper (Cu)	ug/g	16000	600	900	1,200	750	35	300	34	120	34	73	20	130	22
Iron (Fe)	ug/g		45,000	72,000	58,000	48,000	35,000	27,000	30,000	31,000	20,000	21,000	19,000	22,000	16,000
Lead (Pb)	ug/g	740	930	2,100	1,800	740	14	270	18	130	84	190	10	390	19
Magnesium (Mg)	ug/g		30,000	29,000	29,000	21,000	22,000	33,000	26,000	24,000	32,000	40,000	46,000	42,000	46,000
Manganese (Mn)	ug/g		430	800	610	510	340	380	420	390	460	410	390	410	360
Molybdenum (Mo)	ug/g		4.1	ND	4.4	3.2	1.4	4.4	0.9	2.0	0.8	2.9	1.1	3.1	0.6
Nickel (Ni)	ug/g		290	610	150	140	32	33	41	31	33	30	21	28	22
Phosphorus (P)	ug/g		1,100	1,100	960	850	520	640	480	530	610	600	520	570	470
Potassium (K)	ug/g		1,400	2,100	1,500	1,800	2,800	2,000	3,900	2,900	3,800	2,400	1,600	2,000	2,000
Selenium (Se)	ug/g	1135	2.3	ND	1.1	1.3	1.7	0.7	0.8	0.9	0.8	0.6	1.0	0.8	ND
Silver (Ag)	ug/g		0.9	ND	1.3	0.6	ND	0.5	ND	ND	0.4	ND	ND	ND	ND
Sodium (Na)	ug/g		1,800	1,300	1,000	1,300	510	630	710	1,300	960	820	550	690	710
Strontium (Sr)	ug/g		510	270	180	170	110	130	59	100	160	130	87	140	130
Thallium (Tl)	ug/g	1	0.30	ND	0.14	0.15	0.24	0.15	0.27	0.24	0.17	0.17	0.17	0.24	0.16
Uranium (U)	ug/g	300	2.0	1.7	1.7	1.8	1.5	1.1	1.8	2.2	2.0	1.4	1.4	1.6	1.4
Vanadium (V)	ug/g		24	ND	20	25	41	28	52	43	39	32	28	31	32
Zinc (Zn)	ug/g		810	2,800	1,200	1,000	84	190	92	110	150	130	47	180	48

ND = Not detected

1. Canadian Council of Ministers of the Environment (CCME) Environmental Quality Guidelines (EQGs) for Protection of Human Health for Industrial land use
Concentrations that are **Bold** exceed the guideline.

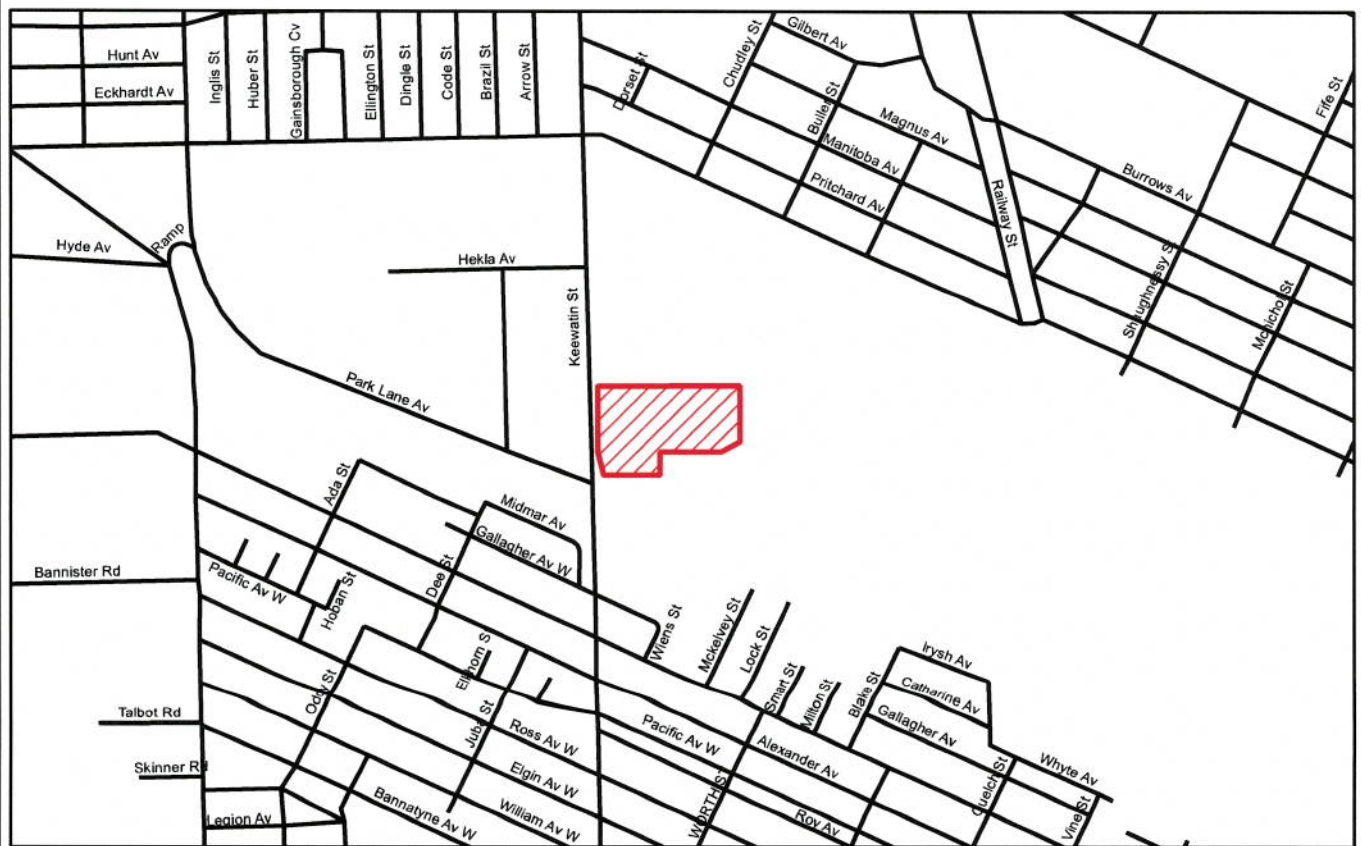
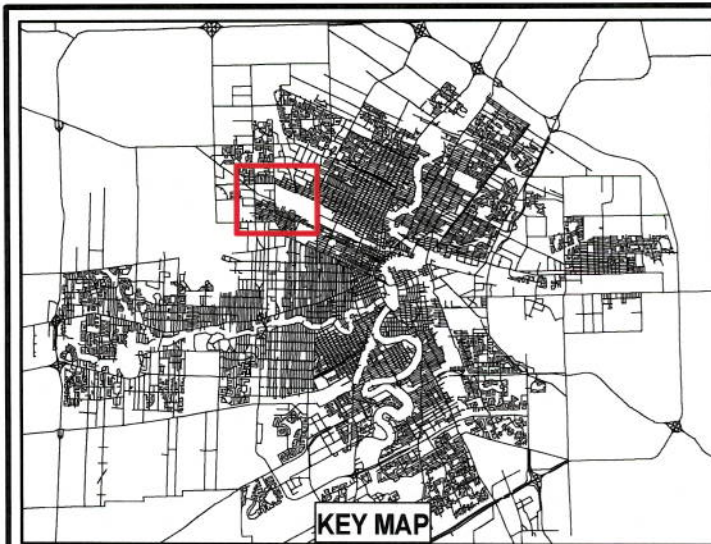
Table 1 - C
Summary of Soil Chemistry Analyses - Metals
Canadian Pacific
Winnipeg, Manitoba

Sample		CCME	TP-28	TP-30	TP-31	TP-32	TP-33	TP-34	TP-35	TP-36	TP-37	TP-38	TP-39	TP-44	TP-45
Sampling Date		SQGs ¹	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	23/01/2008	24/01/2008	24/01/2008	24/01/2008	24/01/2008
COC Number	Units		EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008	EW162008
Metals															
Aluminum (Al)	ug/g		9,000	12,000	9,500	8,700	8,000	8,400	8,700	11,000	11,000	8,600	4,600	12,000	6,200
Antimony (Sb)	ug/g		4.1	17	60	84	80	29	73	120	56	63	46	69	6.9
Arsenic (As)	ug/g	12	6	10	13	27	28	13	27	28	17	16	10	15	5
Barium (Ba)	ug/g		200	590	1,100	1,000	1,000	690	840	660	1,300	810	280	700	230
Beryllium (Be)	ug/g		0.5	0.6	0.7	ND	ND	0.5	ND	ND	0.8	0.7	0.3	0.7	0.4
Cadmium (Cd)	ug/g	192	0.7	1.3	1.2	8	13	3.6	18	6	2.8	2.7	1.3	1.6	0.5
Calcium (Ca)	ug/g		83,000	67,000	67,000	52,000	65,000	65,000	63,000	56,000	70,000	69,000	86,000	59,000	110,000
Chromium (Cr)	ug/g	2300	51	33	30	50	100	38	83	49	40	37	24	39	52
Cobalt (Co)	ug/g		9.1	10	11	30	29	11	30	37	13	13	6.9	14	6.4
Copper (Cu)	ug/g	16000	120	240	460	930	1,900	500	1,700	1,000	580	550	270	660	54
Iron (Fe)	ug/g		21,000	30,000	41,000	110,000	100,000	41,000	84,000	88,000	61,000	47,000	33,000	55,000	16,000
Lead (Pb)	ug/g	740	130	470	1,100	3,100	4,500	1,400	4,500	2,400	1,100	1,300	730	6,200	210
Magnesium (Mg)	ug/g		38,000	34,000	33,000	20,000	29,000	32,000	28,000	19,000	33,000	29,000	50,000	28,000	54,000
Manganese (Mn)	ug/g		390	430	450	1,100	1,200	460	900	780	570	570	430	620	280
Molybdenum (Mo)	ug/g		2.8	2.3	2.7	ND	ND	2.5	4.0	ND	4.4	4.0	2.3	3.5	8.0
Nickel (Ni)	ug/g		36	99	210	1,800	1,100	170	1,500	3,000	260	320	94	180	27
Phosphorus (P)	ug/g		510	540	820	1,500	1,500	710	1,300	1,300	1,400	870	670	870	400
Potassium (K)	ug/g		2,200	2,500	2,000	2,100	ND	2,500	1,900	ND	1,700	2,000	1,100	2,500	1,400
Selenium (Se)	ug/g	1135	ND	0.8	1.2	ND	7	1.5	3.5	ND	1.6	1.7	1.3	1.2	ND
Silver (Ag)	ug/g		ND	0.5	0.6	6	2	0.9	1	ND	1.0	1.2	0.5	1.3	ND
Sodium (Na)	ug/g		830	980	1,200	1,700	1,600	900	1,700	2,000	1,500	1,200	600	1,400	830
Strontium (Sr)	ug/g		100	190	310	220	210	160	240	530	480	240	100	310	160
Thallium (Tl)	ug/g	1	0.17	0.19	0.18	ND	ND	0.19	ND	ND	0.24	0.25	0.17	0.27	0.14
Uranium (U)	ug/g	300	1.3	1.6	1.3	1.3	1.4	1.3	1.3	1.8	1.8	1.7	0.97	2.5	1.2
Vanadium (V)	ug/g		30	34	31	ND	ND	28	26	ND	29	29	19	36	20
Zinc (Zn)	ug/g		140	480	690	5,900	8,900	1,500	8,800	3,900	1,500	1,400	470	550	120

ND = Not detected

1. Canadian Council of Ministers of the Environment (CCME) Environmental Quality Guidelines (EQGs) for Protection of Human Health for Industrial land use
Concentrations that are **Bold** exceed the guideline.

FIGURES



300 0 300
SCALE 1:15,000 METRES



PROJECT CANADIAN PACIFIC WESTON YARDS
REMEDIAL ACTION PLAN FOR CONTAMINATED SOIL
WINNIPEG, MANITOBA

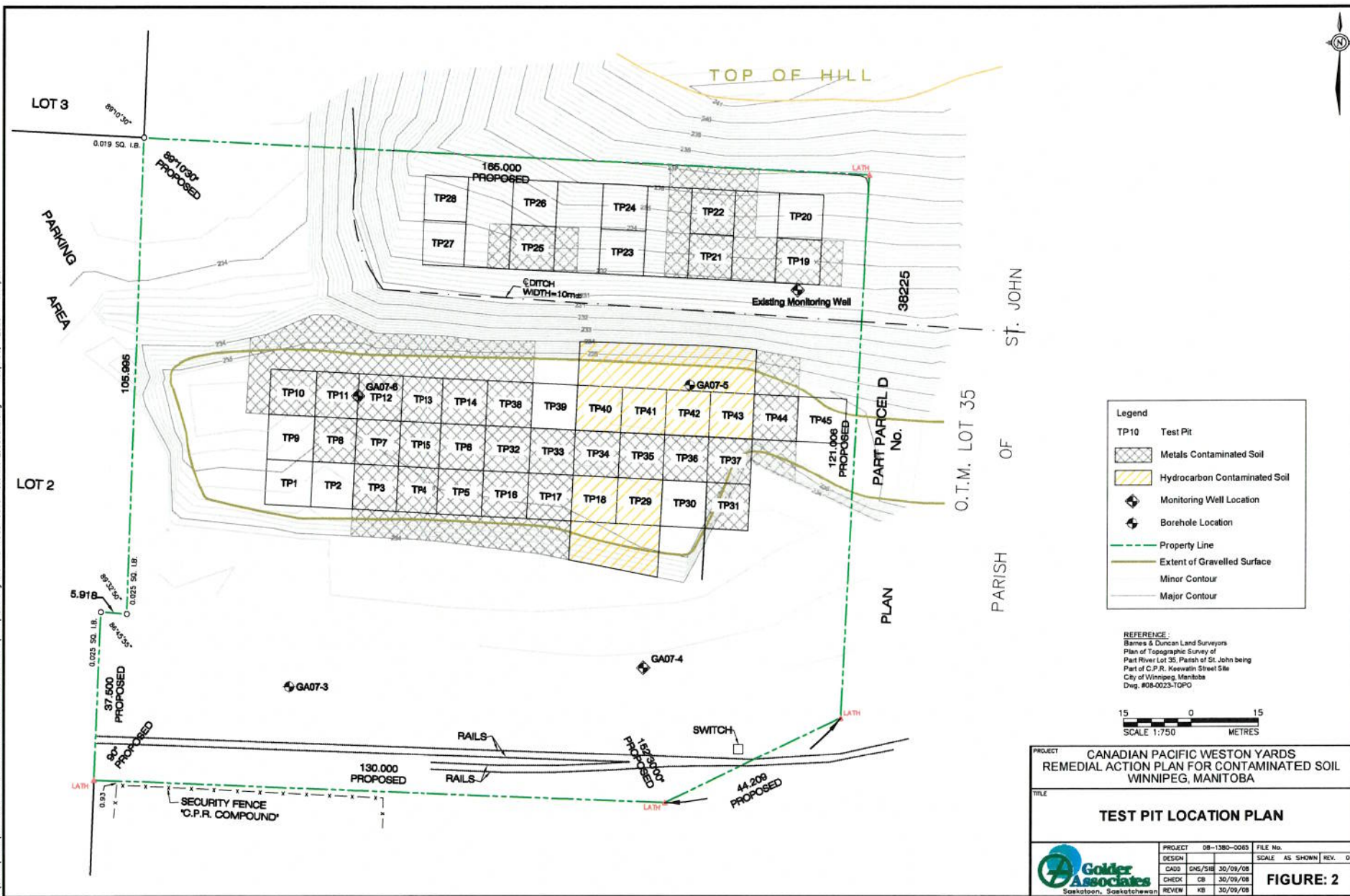
TITLE
SITE LOCATION PLAN

 **Golder Associates**
Saskatoon, Saskatchewan

PROJECT	08-1380-0065	FILE No	
DESIGN		SCALE	REV. 0
GIS	JRC	17/09/08	
CHECK	CB	29/09/08	
REVIEW	KB	29/09/08	

FIGURE: 1

C:\2008\1380-0065 CPR Remediation 505 Keweenaw\CAD\ Drawing file: 08-1380-0065 Test Pit Locations.dwg Sep 30, 2008 - 11:17pm



**APPENDIX I
PREVIOUS INVESTIGATIONS**

FINAL REPORT ON

PHASE II ENVIRONMENTAL SITE ASSESSMENT

CONSOLIDATED FASTFRATE SITE
WINNIPEG, MANITOBA

Submitted to:

Mr. Don McCuaig
Consolidated Fastfrate Inc.
477 Keewatin Street
Winnipeg, Manitoba
R2X 2S1

DISTRIBUTION:

2 Copies - Consolidate Fastfrate Inc., Winnipeg, Manitoba
2 Copies - Golder Associates Ltd., Winnipeg, Manitoba

September 2008

07-1380-0030



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Golder Associates Operations in Africa, Asia, Australasia, Europe, North America and South America

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1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by Consolidated Fastfrate Inc. (Fastfrate) to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 477 and 505 Keewatin Street in Winnipeg, Manitoba and is legally described as Lot 2 Plan 42883 and Part Parcel D Plan 38225 Parish of St. John OTM Lot 35 (hereafter referred to as the "Site"). It is understood that the Phase II ESA is required as part of a potential purchase and redevelopment of the Site from Canadian Pacific Railways (CPR).

1.1 Site Description

The Site is located at 477 and 505 Keewatin Street in Winnipeg, Manitoba and is currently owned by CPR. Fastfrate currently leases a 2.2 hectare portion of land from CPR where it operates its trucking and cross-docking facility. The currently leased portion of the Site is comprised of two commercial buildings. The eastern portion of the Site is a vacant portion of land, approximately 2.2 hectares in area, located adjacent to the east of the currently leased portion of the Site. The lands to the east are to be included in the purchase from CPR as part of a planned redevelopment and expansion of Fastfrate's facilities. The land to the east of the current Fastfrate Site consists of generally unused portion of CPR's Weston Yards. It is vacant land with a rail line, piles of old metal parts, railway ties, as well as a built up area where fill was reportedly deposited.

1.2 Background

Golder was retained by Fastfrate to conduct a Phase I ESA of the Site in April 2007. The results of the Phase I ESA were presented in the report entitled "*Draft Report on Phase I Environmental Site Assessment at 477 and 505 Keewatin Street*", dated May 2007.

Based on the results of the Phase I ESA, the following issues of environmental concern were identified:

- A review of aerial photographs as well as a review of the Dillon 2002 Material Characterization Report showed evidence that significant amounts of fill were placed on the site in the past. Some of the historical fill noted in the aerial photographs is not known. Soils stockpiled in the eastern portion of the Site are reportedly from historical track decommissioning activities. A Material Characterization Report was completed in 2002 to characterize material stockpiled on the east portion of the site. Investigations completed for the preparation of this report reported concentrations of the F3 hydrocarbon fraction and metals above the regulatory criteria is considered an

issue of potential environmental concern. This is considered an issue of potential environmental concern given the exceedances of regulatory criteria of soils in the eastern portion of the Site, as well as the unknown quality of soils used for historical fill material in other areas of the Site and surrounding areas.

- Two underground storage tanks (USTs) used for gasoline and fuel oil were removed in 1996. The gasoline tank at the time of removal passed Level III cleanup criteria described by Manitoba Environment. Under current CCME guidelines the level of benzene found in 3 of the 7 soil samples taken from the excavation pit exceed the guidelines. The removal of the fuel oil UST was followed by a supplementary soil clean up program. The results of this program indicate contaminate concentrations are below all current and historical guidelines.

1.3 Scope of Work

Based on the results of the Phase I ESA and at the request of Fastfrate, Golder provided a cost estimate and work plan for the Phase II ESA at the Site. The purpose of the Phase II ESA was to investigate the presence or absence of environmental impacts and due diligence purposes as part of a potential property sale. The scope of work for the investigations carried out at the Site involved:

- drill six (6) boreholes within the Site to address potential concerns related to the stockpiled soil in the eastern portion of the Site as well as the area of the decommissioned UST in the central portion of the Site;
- installation of monitoring wells in at three (3) selected borehole locations;
- submission of a total of six (6) selected soil samples from the Phase II ESA drilling for chemical analysis for metals, poly aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), Canadian Council of Ministers of the Environment (CCME) petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene, and xylenes (BTEX); and,
- collection of groundwater samples from each of the three (3) monitoring wells and submission for chemical analysis for VOC, PAH and dissolved metals.

Written authorization to proceed with the work program was provided to Golder by Don McCuaig of Fastfrate on May 22, 2007.

2.0 APPLICABLE ENVIRONMENTAL QUALITY GUIDELINES

The principal documents for the evaluation of the environmental quality of soil at hydrocarbon impacted sites in Manitoba are the *Canadian Council of Ministers of the Environment Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health* for benzene, toluene, ethylbenzene, and xylenes (CCME SQG 2004) and the *CCME Canada-Wide Standards for Petroleum Hydrocarbon in Soil*, (CCME PHC 2001, updated 2008). Manitoba has adopted the CCME SQG guidelines set out for a 10^{-6} incremental risk for cancer. The CCME PHC are used for comparison to petroleum hydrocarbon fractions F1 to F4 concentrations in soil.

To determine applicable regulatory criteria for comparison to chemical analytical results, potential receptors of the contaminants must be identified. The City of Winnipeg provides a domestic water supply to each business¹ and residence. During a brief inspection of the vicinity of the Site, no groundwater wells were observed. A search of the Manitoba Water Well database revealed five water wells located within a two kilometre radius of the Site. Well details indicate that the water is drawn from a limestone aquifer approximately 10 m to 15 m below surface with a cover layer consisting of a lacustrine clay deposit. The nearest surface water body to the Site is the Red River, located 4.8 km east of the Site.

The Site and surrounding area are of industrial and commercial land use and fine grained soils. Given the lack of use of shallow groundwater as a potable water resource on or near the Site and the 10 to 15 m of fine grained soils inhibiting contaminant migration, the CCME SQG 2004 and CCME PHC potable groundwater guideline/exposure pathway can be eliminated. The applicable CCME SQG 2004 exposure pathway for this site is for vapour inhalation exposure pathway for benzene, and the soil contact guideline for toluene, ethylbenzene and xylenes. The applicable criteria for the PHC fractions are provided in CCME PHC 2001 for eco soil contact exposure pathway for surface soils.

For all remaining soil chemical parameters, Manitoba has adopted the CCME Environment Quality Guidelines for the Protection of Environmental and Human Health for industrial land use (2006)

Manitoba does not have specific criteria for the evaluation of VOCs, PAHs and dissolved metals in groundwater for a non-potable groundwater conditions. Conversations with Manitoba Conservation recommend comparison of analytical results for VOCs in groundwater to the Ontario Ministry of the Environment document "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*" dated March 9, 2004 (MOE 2004). The relevant criteria were the MOE 2004 Table 3

criteria for full depth generic site condition standards for industrial/commercial/
community land use for a non-potable groundwater condition having fine-medium
textured soils.

3.0 FIELD INVESTIGATION METHODOLOGY

3.1 Borehole Drilling

Borehole drilling was conducted at the Site on June 13, 2007 using a power auger rig equipped with solid stem augers, supplied by Paddock Drilling Ltd. of Winnipeg, Manitoba. Underground utilities were cleared on prior to the commencement of drilling. Borehole locations are provided on Figure 1.

Two boreholes (GA07-1 and GA07-2) were located south of 505 Keewatin Street in the vicinity of a former fuel UST. Four boreholes GA07-3 through GA07-6 were located to the east of current Fastfrate site in vacant CPR lands.

During drilling, the augers were withdrawn from the boreholes at regular depth intervals of 1.5 m. This allowed for soil sampling and logging of the soil lithology and soil conditions during drilling. The soil conditions encountered in the boreholes are described on the Record of Borehole Logs contained in Appendix I.

Soil samples were collected at each borehole location at regular depth intervals (about 0.75 m) or at notable changes in soil conditions. Soil samples collected were split, with two portions of the sample packed tightly into a laboratory-supplied sample jars, and placed in a chilled cooler for possible chemical analysis. The third portion of the soil sample was placed in a sealed plastic bag and allowed to equilibrate to approximately room temperature. The headspace in each bag was screened for the presence of combustible vapours using a MiniRae Photoionization detector (PID) equipped with a 10.6-eV lamp, and calibrated to 100 ppm isobutylene. The results of the soil headspace screening are presented on the Record of Borehole Logs in Appendix I.

Based on site geology and headspace readings, Golder submitted a total of six soil samples from the boreholes to ALS Laboratory Group of Winnipeg, Manitoba for chemical analysis.

Monitoring Well Installation and Groundwater Sampling

Groundwater monitoring wells were installed in three selected boreholes during drilling (GA07-1, GA07-4 and GA07-6). Each monitoring well was constructed using 51 mm polyvinyl chloride pipe and screen. Packaged, clean, washed, and uniform filter sand was used to fill the borehole annulus to approximately 0.3 m above the top of the screened interval (about 1 m below ground surface [bgs]). Bentonite chips were placed in the borehole annulus above the filter pack to a depth of approximately 0.3 m bgs with

water applied to hydrate the bentonite. A steel casing protector was then placed over the monitoring well for protection from damage. Installation details of the monitoring wells are presented on the Record of Borehole Logs included in Appendix I.

The groundwater level was allowed to equilibrate for approximately five weeks, prior to monitoring water levels in each well and collecting groundwater samples from each of the monitoring wells.

Prior to groundwater sampling, each well was developed by purging it dry or by removing a volume of three standing water columns to ensure the collection of samples representative of formation water. After the wells were allowed to recover, groundwater samples were obtained from each monitoring well and submitted to ALS Laboratory Group of Winnipeg, Manitoba for analysis of VOCs, PAHs and dissolved metals.

4.0 INVESTIGATION RESULTS

4.1 Soil Conditions

Details of the conditions encountered in the boreholes are presented in the Record of Borehole Logs included in Appendix I. It should be noted that the subsurface conditions encountered may vary between and beyond the test pits, boreholes and sampling locations.

Within the maximum depth interval penetrated by the boreholes (up to 6.1 m bgs), three main types of naturally-occurring soil materials were encountered. These materials, in order of increasing depth, are fill, silty clay and clay.

The boreholes were advanced to depths ranging from 4.6 to 6.1 m bgs. Fill was encountered in all boreholes from surface to a maximum depth of approximate 3.1 m bgs (GA07-5). The fill was comprised of sand and gravel in boreholes GA07-1 and GA07-2. The fill through the remainder of the boreholes was comprised generally of silty clay with some areas of trace sand and 0.3 m cinders of encountered in GA07-1.

This surficial layer overlies native deposits of clay all boreholes with the exception of GA07-3. The clay deposits are generally brown in color, with variable silt content and were encountered to maximum depth. The silt deposits found within GA07-3 are generally clayey, and extend to the maximum depth drilled (4.6 m bgs).

4.2 Groundwater Conditions

The relative elevations of monitoring wells and the depth to groundwater were measured on April 25, 2005 (GA05-1 through GA05-3) and are shown in Table 1.

The depth to groundwater ranged from 0.73 m bgs to 3.30 m bgs. The groundwater elevation at GA07-6 is approximately 0.3 m lower in elevation than the remaining monitoring wells. The difference in groundwater elevation between monitoring wells could be due to groundwater levels in the monitoring wells not being stabilized. The initial relative elevation data suggests that the general direction of groundwater flow at the Site is towards the northeast towards the drainage ditch located in the eastern portion of the Site.

4.3 Soil Quality

Soil analytical results with applicable criteria are provided in Tables 2 through 4. Copies of the Laboratory Certificates of Analysis are included in Appendix II. One soil sample collected each of the six boreholes was submitted for chemical analysis of BTEX, PHC fractions (F1 to F4), PAHs, metals and VOCs.

Concentrations of PHC fraction F3 in the soil sample GA07-5 SA31 (18,000 mg/kg) collected from 1.5 m to 2.1 m depth exceeded the applicable CCME CWS 2001 criteria (2,500 mg/kg). Concentrations of all remaining PHC fractions, BTEX parameters and VOCs in all soil samples were below the laboratory detection limits and the applicable guidelines.

The concentration of benzo (b) fluoranthene in soil sample GA07-05 SA31 (11.0 mg/kg) collected from 1.5 m to 2.1 m depth exceeded the applicable CCME criteria (10 mg/kg). All remaining concentrations of PAHs in soil samples collected at the Site were below the applicable guidelines.

The following exceedances of applicable guidelines were noted for soil sample metal concentrations:

- Arsenic in soil samples GA07-1 SA3 (24.3 mg/kg) and GA07-6 SA40 (16.8 mg/kg) exceeded the CCME guideline criteria of 12 mg/kg.
- Copper in soil samples GA07-5 SA31 (215 mg/kg) and GA07-6 SA40 (732 mg/kg) exceeded the CCME guideline criteria of 91 mg/kg.
- Lead in soil samples GA07-5 SA31 (1220 mg/kg) and GA07-6 SA40 (864 mg/kg) exceeded the CCME guideline criteria of 260 mg/kg.
- Copper in soil samples GA07-5 SA31 (362 mg/kg) and GA07-6 SA40 (781 mg/kg) exceeded the CCME guideline criteria of 360 mg/kg.

4.4 Liquid-Phase Hydrocarbons

No liquid phase hydrocarbons were detected in any of the monitoring wells during the June 14, 2007 monitoring.

4.5 Groundwater Quality

A summary of the groundwater analytical results is provided in Tables 5 through 7. Copies of the Laboratory Certificates of Analysis are included in Appendix II. Three

groundwater samples were submitted for chemical analysis of VOCs, PAHs and dissolved metals.

Concentrations of VOCs, PAHs and dissolved metals in all samples were below or at the laboratory detection limits.

5.0 DISCUSSION

The purpose of the Phase II ESA was to identify the presence or absence of subsurface soil and groundwater impacts related to former (rail yard) and current (trucking facilities) land use at the Site and surrounding area.

Concentrations of VOCs in all soil samples analyzed were below detection limits.

Concentrations of petroleum hydrocarbons, metals and one PAH parameter were detected at concentrations in excess of criteria in soil samples collected from the Site. With the exception of the arsenic in soil sample GA07-1 SA3, all exceedances of soil guideline criteria were detected in soil samples GA07-5 SA31, and GA07-6 SA40 and collected from soil material believed to be fill stockpiled in the eastern portion of the Site from previous CPR activities.

The results indicate that subsurface impacts are present within the soil stockpile present in the eastern portion of the Site. The soil stockpile at the Site is roughly outlined on Figure 2. The stockpiled area is divided into two parts, which are separated by a drainage ditch. Approximately 20,000 m³ of stockpiled soil would have to be removed to level the Site. Approximately 10,000 m³ of this soil is located south of the drainage ditch and approximately 10,000 m³ is located north of the drainage ditch..

The soil sample GA07-1 SA3 was collected from a depth where significant amount of cinders were observed in the soil. The origin of the cinders is likely from historical fill activities at the rail yard noted in the Phase I ESA.

Soil samples submitted for laboratory analysis from the vicinity of the former fuel UST noted in the Phase I ESA had no detectable hydrocarbon impacts.

Concentrations of VOCs, PAHs, and dissolved metals in all groundwater samples collected were below applicable guidelines.

6.0 LIMITATIONS AND USE

This report was prepared for the exclusive use of Fastfrate. Golder or its employees will not be responsible for any use of the information contained in this report, or any reliance on or decisions made based on it, by an unauthorized third party.

Our findings are based on data and information collected during the Site investigation, supported by data and information collected during previous site investigations. No assurance is made regarding changes in Site conditions subsequent to the dates of our investigations. Further, subsurface soil and groundwater conditions were determined at the borehole and groundwater well locations only. Conditions may change beyond and between the investigated locations.

If additional information is discovered in the future, including excavations, borings, or other studies, Golder should be requested to re-evaluate the conclusions presented in this report and provide appropriate amendments.

7.0 CLOSURE

We trust the above meet your present requirements. If you have any questions or require additional details, please contact the undersigned.

Yours truly,

GOLDER ASSOCIATES LTD.



Kevin Beechinor, BSc.
Environmental Specialist



Greg Misfeldt, P.Eng.
Principal, Senior Geotechnical Engineer

KB/GM/la

N:\Active\2007 Projects and Proposals\Winnipeg\07-1380-0030 Consolidated Fastfrate inc Phase II Winnipeg\07-1380-0030\Final Report\07-1380-0030 Rpt 08 Sept 24 -
Phase II Fast Frate_la.doc

TABLES

Table 1
Well Completion Details and Groundwater Conditions
Consolidate Fast Frate
Winnipeg, Manitoba

Well	Ground Elevation (m)	Top of Pipe Elevation (m)	Well Depth (mBGS)	Screened Interval Depth (m)			Screen Interval Elevation (m)			Lithology at Screen	June 14, 2007 Measurements			
											Depth to Free Product (mBTOC)	Depth to Water (mBTOC)	Apparent Free Product Thickness (mm)	Groundwater Elevation (m)
GA07-1	98.20	98.05	6.1	1.5	-	6.1	96.68	-	92.11	Silty clay, clay	—	0.73	—	97.32
GA07-4	98.17	98.06	4.6	1.5	-	4.6	96.67	-	93.57	Silty clay, silt, clay	—	0.75	—	97.31
GA07-6	100.11	100.00	6.1	1.5	-	6.1	98.61	-	94.01	Silty clay, Clayey Silt, silty clay	—	3.03	—	96.97

Prepared by: AH
Approved by: KWB

Notes:

mBGS - metres below ground surface
mBTOC - metres below top of casing

Table 2
Summary of Soil Chemistry Analyses - Petroleum Hydrocarbons and Metals
Consolidate Fast Frate
Winnipeg, Manitoba

Sample	GA07-01 SA3	GA07-02 SA11	GA07-03 SA18	GA07-04 SA24	GA07-05 SA31	GA07-06 SA40	CCME 2004 SQGs ¹ , CCME
Depth (m)	1.67-1.82	2.1-2.28	1.21-1.37	1.21-1.37	1.52-2.1	0.6096 - 0.762	2001 PHCs ² and CCME
Sample Collection Date	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	EQG ³ mg/kg
Headspace Vapour (ppm)	1.7	1.9	20.7	1.9	1.7	1.4	
Parameter/Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Petroleum Hydrocarbons							
Benzene	<0.05	<0.05	<0.005	<0.05	<0.05	<0.05	0.28
Toluene	<0.01	<0.01	<0.05	<0.01	0.07	<0.01	330
Ethylbenzene	<0.01	<0.01	<0.02	<0.01	0.14	<0.01	430
Xylenes (total)	<0.05	0.04	<0.06	<0.03	0.28	<0.03	230
PHC F1 (C ₆ -C ₁₀)	<5	<5	<5	<5	6	<5	320
PHC F2 (C ₁₀ -C ₁₆)	<5	<5	<5	<5	920	7	260
PHC F3 (C ₁₆ -C ₃₄)	7	<5	9	16	18000	160	2500
PHC F4 (> C ₃₄)	<6	<5	<5	16	4000	<50	6600
Total Hydrocarbons (C6-C50)	12	<5	9	32	23000	220	ng
Metals							
Arsenic (As)	24.3	6.87	3.53	3.67	5.47	16.8	12
Barium (Ba)	72	102	206	95.5	274	1180	2000
Beryllium (Be)	0.56	1.16	0.25	0.42	0.23	<1	8
Cadmium (Cd)	0.25	1.38	0.15	0.14	1.58	2.56	22
Cobalt (Co)	5.53	10.7	6.48	6.5	4.93	7.55	300
Chromium (Cr)	24.7	28.8	15.1	19	23.1	24	87
Copper (Cu)	29.5	26.2	16.5	17.3	215	732	91
Molybdenum (Mo)	1.44	0.73	0.82	0.28	6.65	1.99	40
Nickel (Ni)	15.7	36.4	14.2	20.2	44.4	149	50
Lead (Pb)	23.5	23.8	47.5	25.8	1220	864	260
Selenium (Se)	0.7	0.6	0.1	<0.1	0.4	1.9	3.9
Thallium (Tl)	<1	0.4	<0.2	<0.2	<0.2	<1	1
Vanadium (V)	31.3	30.1	15.5	25.3	11.1	18.4	130
Zinc (Zn)	49	109	33	36	382	781	360
Silver (Ag)	<1	<1	<1	<1	<1	<1	40
Tin (Sn)	<4	<4	<4	<4	10	15	300
Uranium (U)	1.17	2.22	0.75	0.92	0.61	2.22	ng
Antimony (Sb)	<0.07	<0.07	<0.07	<0.07	13	5	40

Notes:

All Concentrations in mg/kg.

1. Canadian Council of Ministers of the Environment (CCME) - Canadian Soil Quality Guidelines (SQGs) for the Protection of Environmental and Human Health for BTEX (vapour inhalation guideline for benzene and eco soil contact guideline for toluene, ethylbenzene and xylenes)

2. Canadian Council of Ministers of the Environment (CCME) Canada Wide Standards for Petroleum Hydrocarbons (PHCs) in Soil (2001, updated 2008),
Criteria for a industrial land use with fine grained surface soils (eco soil contact pathway).

3. Canadian Council of Ministers of the Environment (CCME) Environmental Quality Guidelines (EQGs) for Protection of Environmental and Human Health for Industrial land use (2006)
and CCME Interim Remediation Criteria for Soil (1991).

Concentrations that are **Bold** exceed the guideline.

Headspace vapour concentrations are a measure of combustible headspace vapours using a Photoionization Detector (PID) calibrated to 100 ppm isobutylene.

Table 3
Summary of Soil Chemistry Analyses - VOCs
Consolidated Fast Frate
Winnipeg, Manitoba

Sample	MOE 2004 Table 3 Criteria ¹	GA07-01 SA3	GA07-02 SA11	GA07-03 SA18	GA07-04 SA24	GA07-05 SA31	GA07-06 SA40
Depth (m)		1.67-1.82	2.1-2.28	1.21-1.37	1.21-1.37	1.52-2.1	0.6096 - 0.762
Sample Collection Date		13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07
Parameter		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	0.12	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
1,1,1-Trichloroethane	34	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
1,1,2,2-Tetrachloroethane	0.23	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
1,1,2-Trichloroethane	3.1	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
1,1-Dichloroethane	140	<0.005	<0.005	<0.005	<0.005	<0.03	<0.005
1,1-Dichloroethylene	0.015	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002
1,2-Dibromoethane	ng	<0.005	<0.005	<0.005	<0.005	<0.03	<0.005
1,2-Dichlorobenzene	30	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
1,2-Dichloroethane	0.14	<0.005	<0.005	<0.005	<0.005	<0.03	<0.005
1,2-Dichloropropane	0.12	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
1,3-Dichlorobenzene	30	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
1,4-Dichlorobenzene	30	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
2-Hexanone	ng	<0.2	<0.2	<0.2	<0.2	<1	<0.2
Acetone	ng	<0.5	<0.5	<0.5	<0.5	<3	<0.5
Bromodichloromethane	25	<0.005	<0.02	<0.005	<0.005	<0.1	<0.005
Bromoform	25	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05
Bromomethane	14	<0.03	<0.03	<0.03	<0.03	<0.3	<0.03
Carbon Disulfide	ng	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
Carbon Tetrachloride	ng	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
Chlorobenzene	0.64	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
Chloroethane	30	<0.03	<0.03	<0.03	<0.03	<0.2	<0.03
Chloroform	4.9	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
Chloromethane	ng	<0.03	<0.03	<0.03	<0.03	<0.2	<0.03
cis-1,2-Dichloroethylene	2.3	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
cis-1,3-Dichloropropene	0.041	<0.005	<0.005	<0.005	<0.005	<0.03	<0.005
Dibromochloromethane	18	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
Dichlorodifluoromethane	ng	<0.03	<0.03	<0.03	<0.03	<0.2	<0.03
Dichloromethane	1000	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
MTBE	38	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2
Methyl ethyl ketone	40	<0.2	<0.2	<0.2	<0.2	<1	<0.2
Methyl isobutyl ketone	0.45	<0.2	<0.2	<0.2	<0.2	<1	<0.2
Styrene	ng	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02
Tetrachloroethylene	0.45	<0.02	<0.05	<0.02	<0.02	<0.1	<0.02
trans-1,2-Dichloroethylene	4.1	<0.06	<0.05	<0.06	<0.06	<0.3	<0.06
trans-1,3-Dichloropropene	ng	<0.005	<0.06	<0.005	<0.005	<0.03	<0.005
Trichloroethylene	3.9	<0.05	<0.005	<0.05	<0.05	<0.3	<0.05
Trichlorofluoromethane	ng	<0.03	<0.03	<0.03	<0.03	<0.2	<0.03
Trihalomethanes (total)	ng	<0.06	<0.11	<0.11	<0.06	<0.11	<0.06
Vinyl Chloride	0.0075	<0.003	<0.003	<0.003	<0.003	<0.02	<0.003

Prepared by: AH
Approved by: KWB

Notes:

All Concentrations in mg/kg.

1. Ontario Ministry of the Environment Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, 2004 - Table 3 full depth generic site condition criteria for Industrial/ Commercial/ Community property use with medium and fine textured soils and non-potable ground water.

ng - No guideline specified.

Concentrations that are **Bold** exceed the applicable criterion.

Table 4
Summary of Soil Chemical Analysis Results for PAHs
Consolidated Fastfrate
Winnipeg, Manitoba

Sample	GA07-01 SA3	GA07-02 SA11	GA07-03 SA18	GA07-04 SA24	GA07-05 SA31	GA07-06 SA40	Guideline
Depth (m)	1.67-1.82	2.1-2.28	1.21-1.37	1.21-1.37	1.52-2.1	0.61 - 0.76	CCME ¹
Sample Collection Date	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	13-Jun-07	
Headspace Organic Vapour (ppm)	1.9	1.9	1.4	1.7	20.7	1.7	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Polyaromatic Hydrocarbons							
Acenaphthene	<0.01	<0.01	<0.01	<0.01	13.0	0.09	ng
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	2.1	0.26	ng
Anthracene	<0.01	<0.01	<0.01	<0.01	38.0	0.52	ng
Benzo(a)anthracene	<0.01	<0.01	0.01	<0.01	8.7	1.60	10
Benzo(a)pyrene	<0.01	<0.01	0.01	<0.01	8.6	2.10	0.7
Benzo(b)fluoranthene	<0.01	<0.01	0.01	<0.01	11.0	2.70	10
Benzo(ghi)perylene	<0.01	<0.01	0.01	<0.01	7.4	1.50	ng
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	3.3	1.10	10
Chrysene	<0.01	<0.01	0.01	<0.01	12.0	1.90	ng
Dibenzo(a,h)anthracene	<0.01	<0.01	<0.01	<0.01	1.4	0.58	10
Fluoranthene	<0.01	<0.01	0.02	<0.01	33.0	2.70	ng
Fluorene	<0.01	<0.01	<0.01	<0.01	15.0	0.16	ng
Indeno(1,2,3-cd)pyrene	<0.01	<0.01	0.01	<0.01	7.2	1.70	10
Naphthalene	0.03	0.01	<0.01	<0.01	9.6	0.14	22
1-Methyl Naphthalene	0.04	0.01	<0.01	<0.01	0.5	0.13	ng
2-Methyl Naphthalene	0.08	0.03	<0.01	<0.01	0.2	0.22	ng
Phenanthrene	0.04	0.03	0.01	<0.01	48.0	1.30	50
Pyrene	<0.01	<0.01	0.02	<0.01	35.0	2.80	100

Notes:

All concentrations in mg/kg.

1. Canadian Council of Ministers of the Environment (CCME) Environmental Quality Guidelines (EQGs) for Protection of Environmental and Human Health for Industrial land use (2006) and CCME Interim Remediation Criteria for Soil (1991).

ng - No guideline specified.

Concentrations that are **Bold** exceed applicable guidelines.

Table 5
Summary of Groundwater Chemistry Analyses - Dissolved Metals
Consolidated Fast Frate
Winnipeg, Manitoba

Date Sampled	MOE 2004 Non-potable ¹	Well ID/ Sampling Date/ Results		
		GA07-01	GA07-04	GA07-06
		13-Jun-07	13-Jun-07	13-Jun-07
<i>Dissolved Metals</i>				
Aluminum (Al)-Dissolved	ng	<20	<20	<20
Arsenic (As)-Dissolved	480	3.8	26.6	7.1
Boron (B)-Dissolved	50000	520	730	2820
Barium (Ba)-Dissolved	23000	43.7	21.4	41.7
Beryllium (Be)-Dissolved	53	1	1	1
Bismuth (Bi)-Dissolved	ng	<0.3	<0.3	<0.3
Calcium (Ca)-Dissolved	ng	457000	325000	255000
Cadmium (Cd)-Dissolved	11	<0.2	<0.2	<0.2
Cobalt (Co)-Dissolved	100	4.8	8.6	4.8
Chromium (Cr)-Dissolved	110	<1	<1	<1
Cesium (Cs)-Dissolved	ng	<0.1	<0.1	<0.1
Copper (Cu)-Dissolved	23	8.3	8.8	5.9
Iron (Fe)-Dissolved	ng	32900	7660	370
Potassium (K)-Dissolved	ng	7650	9550	27500
Magnesium (Mg)-Dissolved	ng	291000	554000	436000
Manganese (Mn)-Dissolved	ng	1.13	0.625	1.29
Mercury (Hg)-Dissolved	0.12	<0.2	<0.2	<0.2
Molybdenum (Mo)-Dissolved	7300	3	1.2	100
Sodium (Na)-Dissolved	ng	164000	493000	380000
Nickel (Ni)-Dissolved	1600	11.2	18	19.8
Phosphorus (P)-Dissolved	ng	<20	<20	<20
Lead (Pb)-Dissolved	32	0.2	0.3	0.8
Rubidium (Rb)-Dissolved	ng	4.7	1.7	5.7
Antimony (Sb)-Dissolved	16000	1	<1	30
Selenium (Se)-Dissolved	50	4	6	3
Silicon (Si)-Dissolved	ng	10100	5500	7200
Tin (Sn)-Dissolved	ng	<0.3	<0.3	0.3
Strontium (Sr)-Dissolved	ng	1030	3360	1560
Tellurium (Te)-Dissolved	ng	<0.5	<0.5	<0.5
Titanium (Ti)-Dissolved	ng	15.1	22.5	13.6
Thallium (Tl)-Dissolved	400	17.5	7.8	6.6
Uranium (U)-Dissolved	ng	11.6	8.7	12.3
Vanadium (V)-Dissolved	200	7	19	24
Tungsten (W)-Dissolved	ng	<0.2	<0.2	12.8
Zinc (Zn)-Dissolved	1100	26	20	109
Zirconium (Zr)-Dissolved	ng	0.6	8.3	6

Notes:

Highlighted concentrations exceed guideline criteria.

ng = No Value or Standard prescribed

all concentrations in µg/L

1. Ontario Ministry of the Environment Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, 2004 - Table 3 full depth generic site condition criteria for all property uses with textured soils and non-potable ground water.

Table 6
Summary of Groundwater Chemistry Analyses
Consolidate Fast Frate
Winnipeg, Manitoba

	MDL	MOE 2004 Table 3 Criteria ¹			
			GA07-01	GA07-04	GA-07-06
			13-Jun-07	13-Jun-07	13-Jun-07
Volatile Organics					
1,1 - Dichloroethane	0.5	50,000	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	0.5	38	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	0.5	200	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	140	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5	5.0	<0.5	<0.5	<0.5
1,1-Dichloroethylene	0.5	4.1	<0.5	<0.5	<0.5
1,2-Dibromoethane	0.5	ng	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	0.5	3.0	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5	5.0	<0.5	<0.5	<0.5
1,2-Dichloropropane	0.5	5.0	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5	630	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5	1.0	<0.5	<0.5	<0.5
2-Hexanone	20	ng	<20	<20	<20
Acetone	20	3,000	<20	<20	<20
Benzene	0.5	5.0	<0.5	<0.5	<0.5
Bromodichloromethane	0.5	5.0	<0.5	<0.5	<0.5
Bromoform	0.5	5.0	<0.5	<0.5	<0.5
Bromomethane	1	10	<1	<1	<1
Carbon disulfide	0.5	ng	<0.5	<0.5	<0.5
Carbon tetrachloride	0.5	5.0	<0.5	<0.5	<0.5
Chlorobenzene	0.5	30	<0.5	<0.5	<0.5
Chloroethane	1	ng	<1	<1	<1
Chloroform	0.5	5.0	<0.5	<0.5	<0.5
Chloromethane	1	ng	<1	<1	<1
cis-1,2-Dichloroethylene	0.5	70	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	24	<0.5	<0.5	<0.5
Dibromochloromethane	0.5	5.0	<0.5	<0.5	<0.5
Dichlorodifluoromethane	1	ng	<1	<1	<1
Dichloromethane	0.5	ng	<0.5	<0.5	<0.5
Ethylbenzene	0.5	2.4	<0.5	<0.5	<0.5
m+p-Xylenes	1	ng	<1	<1	<1
Methyl Ethyl Ketone	20	350	<20	<20	<20
Methyl Isobutyl Ketone	20	350	<20	<20	<20
MTBE	0.5	700	<0.5	<0.5	<0.5
o-Xylene	0.5	ng	<0.5	<0.5	<0.5
Styrene	0.5	100	<0.5	<0.5	<0.5
Tetrachloroethylene	0.5	5.0	<0.5	<0.5	<0.5
Toluene	0.5	24	<0.5	<0.5	<0.5
trans-1,2-Dichloroethylene	0.5	100	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	24	<0.5	<0.5	<0.5
Trichloroethylene	0.5	50	<0.5	<0.5	<0.5
Trichlorofluoromethane	1	ng	<1	<1	<1
Trihalomethanes (total)	2	ng	<2.0	<2.0	<2.0
Vinyl chloride	0.5	1.3	<0.5	<0.5	<0.5

Prepared by: AH
Approved by: KB

Notes:

Highlighted concentrations exceed guideline criteria.

-- = No Value or Standard prescribed

All concentrations in µg/L

MDL - Method Detection Limit

1. Ontario Ministry of the Environment Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, 2004 - Table 3 full depth generic site condition criteria for Industrial/ Commercial/ Community property use with medium and fine textured soils and non-potable ground water.

Table 7
Summary of Groundwater Chemical Analyses Results for PAHs
Consolidated Fast Frate
Winnipeg, Manitoba

Sample Number	GA07-1	GA07-4	GA07-6	MOE 2004 ¹
Sample Collection Date	13-Jun-07	13-Jun-07	13-Jun-07	
1-Methyl Naphthalene	0.06	<0.05	<0.05	ng
2-Methyl Naphthalene	0.09	<0.05	<0.05	ng
Acenaphthene	<0.05	<0.05	<0.05	1700
Acenaphthylene	<0.05	<0.05	<0.05	2000
Anthracene	<0.01	0.03	0.01	12
Benzo(a)anthracene	0.02	0.04	0.02	5
Benzo(a)pyrene	0.01	0.05	0.02	1.9
Benzo(b)fluoranthene	0.02	0.08	0.03	7
Benzo(ghi)perylene	0.01	0.04	0.02	0.2
Benzo(k)fluoranthene	<0.01	0.02	0.01	0.4
Chrysene	<0.05	<0.05	<0.05	3
Dibenzo(ah)anthracene	<0.01	0.02	<0.01	0.25
Fluoranthene	0.02	0.07	0.03	130
Fluorene	<0.05	<0.05	<0.05	290
Indeno(1,2,3 cd)pyrene	0.01	0.05	0.02	0.27
Naphthalene	<0.05	<0.05	<0.05	6200
Phenanthrene	0.04	0.06	0.02	63
Pyrene	0.02	0.07	0.03	40

Notes:

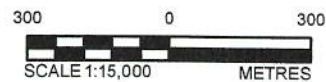
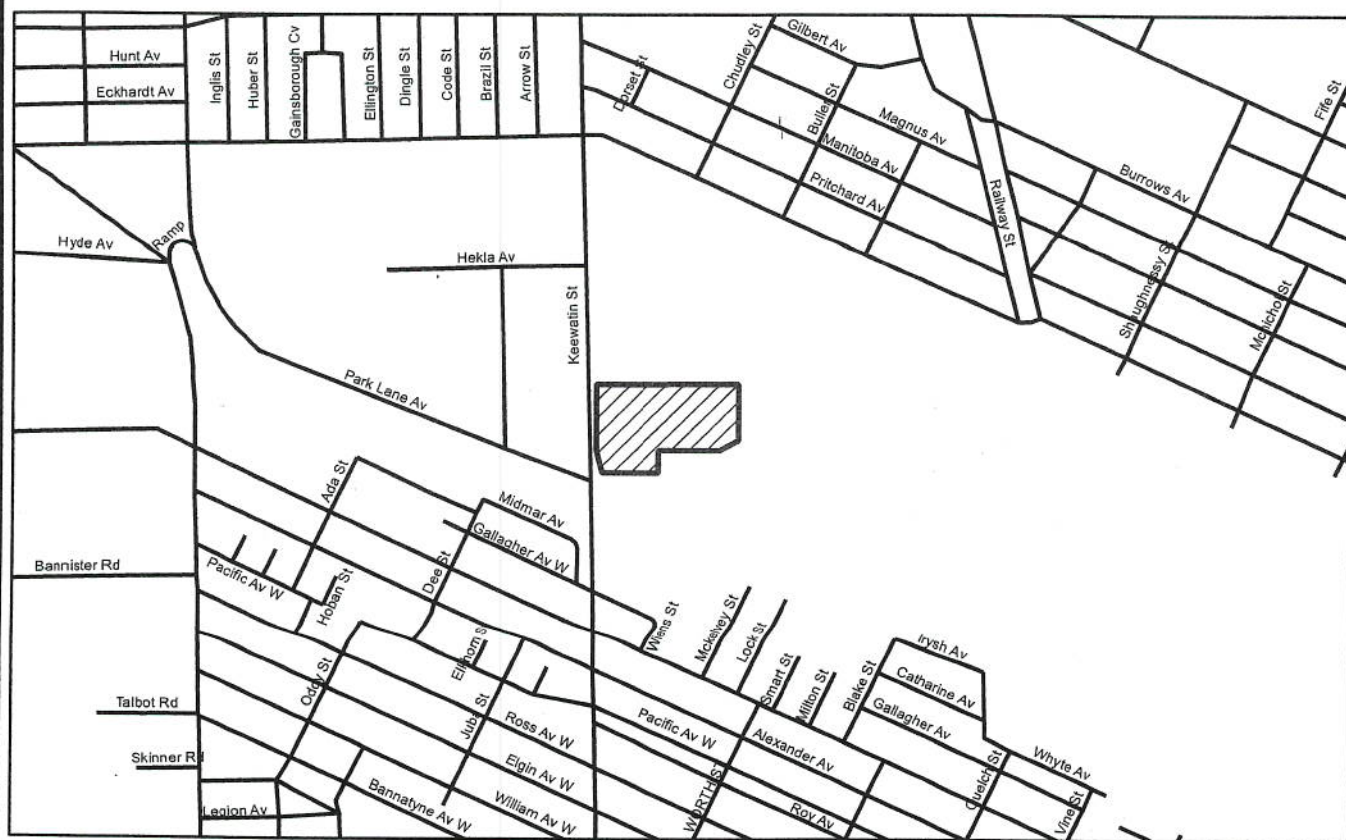
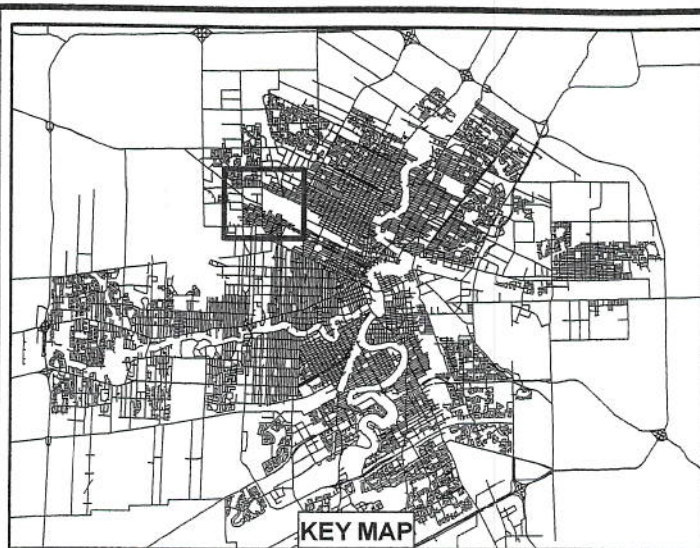
All concentrations in µg/L

1. Ontario Ministry of the Environment Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, 2004 - Table 3 full depth generic site condition criteria for Industrial/ Commercial/ Community property use with medium and fine textured soils and non-potable ground water.

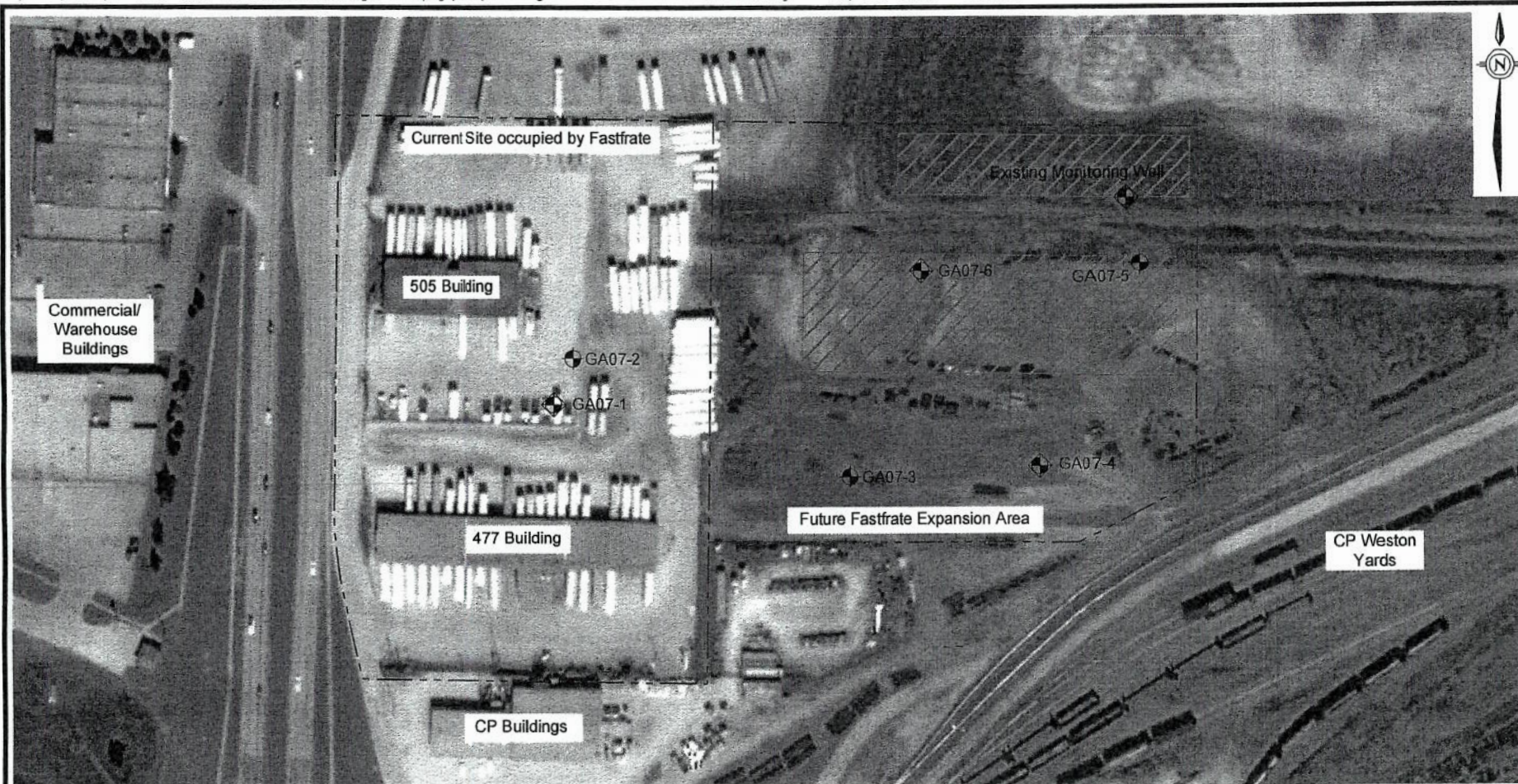
ng - No guideline specified.

Concentrations that are **Bold** exceed the guideline.

FIGURES



PROJECT		CONSOLIDATED FASTFRATE PHASE II ESA WINNIPEG, MANITOBA	
TITLE		SITE LOCATION PLAN	
 Golder Associates Saskatoon, Saskatchewan	PROJECT	07-1380-0030	FILE No.
	DESIGN	GIS JRC/AND	12/02/08
	CHECK	CB	12/02/08
	REVIEW	KB	12/02/08
		SCALE	REV. 0
FIGURE: 1			



40 0 40
SCALE 1:2,000 METRES

Legend

- Property Boundary
- Drainage Ditch
- ⊕ Monitoring Well
- ⊕ Borehole
- /// Approximate Extent of Fill

PROJECT

CONSOLIDATED FASTFRATE
PHASE II ESA
WINNIPEG, MANITOBA

TITLE

SITE PLAN
477 AND 505 KEEWATIN STREET



PROJECT			FILE No.	
DESIGN			SCALE	AS SHOWN
CADD	GNS/SIB	30/09/08	REV.	0
CHECK	CB	30/09/08		
REVIEW	KB	30/09/08		

FIGURE: 2

APPENDIX I
RECORD OF BOREHOLE LOGS

PROJECT: 07-1380-0030

RECORD OF BOREHOLE: GA07-1

SHEET 1 OF 1

LOCATION: SOUTH SIDE OF FORMER UST

BORING DATE: 06/13/07

DATUM:

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		PID READINGS ppm				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	10	20	30	40	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³	
0	CANTERRA CT250 TRUCK MOUNTED 152mm DIA. SOLID STEM	GROUND SURFACE													
		Loose, dry, light brown SAND and GRAVEL (FILL)	0.00												
				1	DO	⊕									
1		Compact, moist, dark grey SILTY CLAY	0.76												
				2	DO	⊕									
		Compact, moist, black CINDERS, trace silty clay	1.52	3	DO	⊕									
2		Very soft, moist, light brown CLAYEY SILT	1.83												
		Compact, moist, grey SILTY CLAY	1.98												
	CANTERRA CT250 TRUCK MOUNTED 152mm DIA. SOLID STEM			4	DO	⊕									
3		Very soft, moist, light brown CLAY, some silt	2.90												
				5	DO	⊕									
		Compact to firm, moist, grey CLAY, some silt	3.66												
4				6	DO	⊕									
5				7	DO	⊕									
6				8	DO	⊕									
		END OF BOREHOLE = 6.10m	6.10												
7															
8															
9															
10															

DEPTH SCALE

1 : 50



LOGGED: KB/CB/AH

CHECKED: K.B.

BOREHOLE 07-1380-0030-BOREHOLES.GPJ GLDR LDN.GDT 09/29/08

PROJECT: 07-1380-0030

RECORD OF BOREHOLE: GA07-2

SHEET 1 OF 1

LOCATION: EAST SIDE OF FORMER UST

BORING DATE: 06/13/07

DATUM:

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		PID READINGS ppm		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	ppm		WATER CONTENT PERCENT			
							10	20	30			40
0	CANTERRA CT250 TRUCK MOUNTED 15mm DIA. SOLID STEM	GROUND SURFACE		0.00								
		Loose, dry, light brown SAND and GRAVEL										
1				9	DO	⊕						
		Firm, moist, dark grey SILTY CLAY		1.07								
				10	DO	⊕						
2				2.13								
		Compact, wet, black CINDERS		11	DO	⊕						
		Soft, moist, brown SILTY CLAY		2.44								
				12	DO	⊕						
3				13	DO	⊕						
4				14	DO	⊕						
5				15	DO	⊕						
6				16	DO	⊕						
		END OF BOREHOLE = 6.10m		6.10								

DEPTH SCALE

1 : 50



LOGGED: KB/CB/AH

CHECKED: K.B.

BOREHOLE 07-1380-0030-BOREHOLES.GPJ CLDR LDN.GDT 09/29/08

PROJECT: 07-1380-0030

RECORD OF BOREHOLE: GA07-3

SHEET 1 OF 1

LOCATION:

BORING DATE: 06/13/07

DATUM:

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		PID READINGS ppm				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE	10	20	30	40	10 ⁻⁴	10 ⁻³	10 ⁻²	10 ⁻¹		
0	CANTERRA CT250 TRUCK MOUNTED 152mm DIA. SOLID STEM	GROUND SURFACE													
		Firm, moist, black CLAY, some sand	0.00												
1				17	DO										
		Soft, dry, light brown CLAYEY SILT	1.07												
2				18	DO										
		Very soft, moist, light brown CLAYEY SILT	2.13												
3				19	DO										
				20	DO										
4				21	DO										
		Stiff, dry, light brown SILTY CLAY	3.66												
5				22	DO										
		?	4.57												
6		END OF BOREHOLE = 6.10m	6.10												
7															
8															
9															
10															

BOREHOLE 07-1380-0030-BOREHOLES.GPJ GLDR LDN.GDT 09/29/08

DEPTH SCALE

1 : 50



LOGGED: KB/CB/AH

CHECKED: K.B.

PROJECT: 07-1380-0030

RECORD OF BOREHOLE: GA07-4

SHEET 1 OF 1

LOCATION:

BORING DATE: 06/13/07

DATUM:

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		PID READINGS		HYDRAULIC CONDUCTIVITY,		ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	ppm		k, cm/s			
							BLOWS/0.3m		WATER CONTENT PERCENT			
0		GROUND SURFACE		0.00								
		Soft, dry, black CLAYEY SILT										
				23	DO	⊕						
1		Firm, dry, light brown CLAYEY SILT		1.09								
				24	DO	⊕						
2		Soft, dry, light brown SILTY CLAY		2.13								
				25	DO	⊕						
		Firm, dry, dark brown CLAY		2.44								
				26	DO	⊕						
3												
		Firm, dry, black CLAYEY SILT		3.66								
				27	DO	⊕						
4		Soft, moist, black CLAY		3.96								
				28	DO	⊕						
		END OF BOREHOLE = 4.57m		4.57								
5												
6												
7												
8												
9												
10												

BOREHOLE 07-1380-0030-BOREHOLES GPJ GLDR LDN.GDT 09/29/08

DEPTH SCALE

1 : 50



LOGGED: KB/CB/AH

CHECKED: K.B.

PROJECT: 07-1380-0030

RECORD OF BOREHOLE: GA07-5

SHEET 1 OF 1

LOCATION:

BORING DATE: 06/13/07

DATUM:

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		PID READINGS ppm		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	ppm		WATER CONTENT PERCENT			
							10	20	30			40
0	CANTERRA CT250 TRUCK MOUNTED 152mm DIA. SOLID STEM	GROUND SURFACE		0.00								
		Hard, dry, black SILTY CLAY										
1				29	DO	⊕						
		Soft, moist, black SILTY CLAY		1.07	30	DO	⊕					
2				1.52	31	DO		⊕				
		Soft, moist, black SILTY CLAY - organic odour		2.13	32	DO	⊕					
3				3.05								
		Moist, grey CLAY, trace sand - organic odour		3.96	33	DO	⊕					
4				4.57	34	DO	⊕					
		Soft, wet, light brown CLAY, some silt		5.79	35	DO	⊕					
5				36	DO	⊕						
6				37	DO	⊕						
				38	DO	⊕						
7		END OF BOREHOLE = 6.70m		6.70								
8												
9												
10												

BOREHOLE 07-1380-0030-BOREHOLES.GPJ GLDR LDN.GDT 09/29/08

DEPTH SCALE

1 : 50



LOGGED: KB/CB/AH

CHECKED: K.B.

PROJECT: 07-1380-0030

RECORD OF BOREHOLE: GA07-6

SHEET 1 OF 1

LOCATION: SOUTH SIDE OF DRAINAGE DITCH NEAR FENCE

BORING DATE: 06/13/07

DATUM:

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		PID READINGS ppm				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m										
								10	20	30	40	10 ⁻⁶	10 ⁻⁵			10 ⁻⁴	10 ⁻³
		GROUND SURFACE		0.00													
		Firm, moist, dark grey SILTY CLAY, some light brown sand, trace gravel (FILL)															
					39												
					40												
					41												
		Loose, moist, light brown SILT, trace sand and gravel		2.29													
					42												
		Soft, moist, dark grey SILTY CLAY - organic odour		3.05													
					43												
		Soft, moist, light brown CLAYEY SILT		3.66													
					44												
					45												
		Firm, moist, dark brown SILTY CLAY		4.88													
					46												
		END OF BOREHOLE = 6.10m		6.10													

DEPTH SCALE

1 : 50



LOGGED: KB/CB/AH

CHECKED: K.B.

BOREHOLE 07-1380-0030-BOREHOLES.GPJ GLDR LDN.GDT 09/29/08

APPENDIX II
SOIL AND GROUNDWATER CERTIFICATES OF ANALYSIS

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division



ANALYTICAL REPORT

GOLDER ASSOCIATES LTD

ATTN: KEVIN BEECHINOR

Unit 6 - 5 Scurfield Blvd

WINNIPEG MB R3Y 1G6

Reported On: 22-JUN-07 02:46 PM

Lab Work Order #: **L517654**

Date Received: **14-JUN-07**

Project P.O. #:

Job Reference: 07-1380-0030

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

APPROVED BY:

Paul Nicolas

PAUL NICOLAS

Project 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.

Manitoba Technology Centre Ltd.

Part of the **ALS Laboratory Group**

1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4

Phone: +1 204 255 9720 Fax: +1 204 255 9721 www.alsglobal.com

A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-1 SA-40								
Sampled By: CLIENT on 13-JUN-07								
Matrix: SOIL								
CCME BTEX + F1-F4								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		21-JUN-07		
F1-BTEX	<5		5	mg/kg		21-JUN-07		
F2 (C10-C16)	7		5	mg/kg		21-JUN-07		
F3 (C16-C34)	160		5	mg/kg		21-JUN-07		
F4 (C34-C50)	48		5	mg/kg		21-JUN-07		
Total Hydrocarbons (C6-C50)	220		5	mg/kg		21-JUN-07		
Chromatogram to baseline at nC50	YES					21-JUN-07		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates					19-JUN-07	21-JUN-07	THT	R538185
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Toluene	<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Ethylbenzene	<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
o-Xylene	<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes, m+p	<0.02		0.02	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes	<0.03		0.03	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
CCME Metals								
Mercury Total								
Mercury (Hg)-Total	8.45		0.02	mg/kg	18-JUN-07	19-JUN-07	TEP	R538267
CCME Metals								
Silver (Ag)	<1		1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)	16.8		0.03	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)	1180	RAMB	0.04	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)	0.71		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)	2.56		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)	7.55	RAMB	0.01	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)	24.0		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)	732		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)	1.99		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)	149	RAMB	0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)	864		0.05	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)	5.31		0.07	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)	1.9		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)	15		4	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)	0.5		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)	2.22		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)	18.4		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)	781		2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
% Moisture	14.2		0.5	%	18-JUN-07	18-JUN-07	SN	R536934
Volatile Organics								
1,1,1,2-Tetrachloroethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2,2-Tetrachloroethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,1-Trichloroethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2-Trichloroethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethane	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethylene	<0.002		0.002	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dibromoethane	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichloroethane	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-1	SA-40								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
Volatile Organics									
	1,2-Dichloropropane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,3-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,4-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	2-Hexanone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Acetone	<0.5		0.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Benzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromodichloromethane	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromoform	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromomethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon Disulfide	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon tetrachloride	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroform	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,2-Dichloroethylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,3-Dichloropropene	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dibromochloromethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichlorodifluoromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichloromethane	<0.1		0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Ethyl Benzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	MTBE	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	m+p-Xylenes	<0.04		0.04	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Ethyl Ketone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Isobutyl Ketone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	o-Xylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Styrene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Tetrachloroethylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Toluene	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,2-Dichloroethylene	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,3-Dichloropropene	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichloroethylene	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichlorofluoromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trihalomethanes (total)	<0.11		0.11	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Vinyl chloride	<0.003		0.003	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Xylenes (Total)	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Surr:	1,2-Dichloroethane d4	91		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	Toluene-d8	91		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	4-Bromofluorobenzene	102		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
EPA PAH									
	Acenaphthene	0.09		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Acenaphthylene	0.26		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Anthracene	0.52		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)anthracene	1.6		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)pyrene	2.1		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(b)fluoranthene	2.7		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(ghi)perylene	1.5		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(k)fluoranthene	1.1		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Chrysene	1.9		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Dibenzo(ah)anthracene	0.58		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-1	SA-40								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
EPA PAH									
	Fluoranthene	2.7		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Fluorene	0.16		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Indeno(1,2,3 cd)pyrene	1.7		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Naphthalene	0.14		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	1-Methyl Naphthalene	0.13		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	2-Methyl Naphthalene	0.22		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Phenanthrene	1.3		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Pyrene	2.8		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	2-Fluorobiphenyl Surr	88		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Nitrobenzene Surr	76		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Terphenyl Surr	96		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-2	SA-3								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
CCME BTEX + F1-F4									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		21-JUN-07		
F1-BTEX		<5		5	mg/kg		21-JUN-07		
F2 (C10-C16)		<5		5	mg/kg		21-JUN-07		
F3 (C16-C34)		7		5	mg/kg		21-JUN-07		
F4 (C34-C50)		5		5	mg/kg		21-JUN-07		
Total Hydrocarbons (C6-C50)		12		5	mg/kg		21-JUN-07		
Chromatogram to baseline at nC50		YES					21-JUN-07		
CCME Total Extractable Hydrocarbons									
Prep/Analysis Dates						19-JUN-07	21-JUN-07	THT	R538185
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Toluene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Ethylbenzene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
o-Xylene		0.02		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes, m+p		<0.02		0.02	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes		0.04		0.03	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
CCME Metals									
Mercury Total									
Mercury (Hg)-Total		0.03		0.02	mg/kg	18-JUN-07	19-JUN-07	TEP	R538267
CCME Metals									
Silver (Ag)		<1		1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)		24.3		0.03	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)		72.0	RAMB	0.04	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)		0.56		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)		0.25		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)		5.53	RAMB	0.01	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)		24.7		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)		29.5		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)		1.44		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)		15.7	RAMB	0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)		23.5		0.05	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)		<0.07		0.07	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)		0.7		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)		<4		4	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)		0.5		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)		1.17		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)		31.3		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)		49		2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
% Moisture		26.7		0.5	%	18-JUN-07	18-JUN-07	SN	R536934
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,1-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethylene		<0.002		0.002	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dibromoethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-2	SA-3								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
Volatile Organics									
1,2-Dichloropropane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,3-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,4-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
2-Hexanone		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Acetone		<0.5		0.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Benzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Bromodichloromethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Bromoform		<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Bromomethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Carbon Disulfide		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Carbon tetrachloride		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chloroethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chloroform		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chloromethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
cis-1,2-Dichloroethylene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
cis-1,3-Dichloropropene		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Dibromochloromethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Dichlorodifluoromethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Dichloromethane		<0.1		0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Ethyl Benzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
MTBE		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
m+p-Xylenes		<0.04		0.04	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Methyl Ethyl Ketone		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Methyl Isobutyl Ketone		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
o-Xylene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Styrene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Tetrachloroethylene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Toluene		<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
trans-1,2-Dichloroethylene		<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
trans-1,3-Dichloropropene		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Trichloroethylene		<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Trichlorofluoromethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Trihalomethanes (total)		<0.11		0.11	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Vinyl chloride		<0.003		0.003	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Xylenes (Total)		<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Surr: 1,2-Dichloroethane d4		97		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr: Toluene-d8		89		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr: 4-Bromofluorobenzene		104		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
EPA PAH									
Acenaphthene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Acenaphthylene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Anthracene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(a)anthracene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(a)pyrene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(ghi)perylene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Chrysene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Dibenzo(ah)anthracene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-2	SA-3								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
EPA PAH									
	Fluoranthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Fluorene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Indeno(1,2,3 cd)pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Naphthalene	0.03		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	1-Methyl Naphthalene	0.04		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	2-Methyl Naphthalene	0.08		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Phenanthrene	0.04		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	2-Fluorobiphenyl Surr	82		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Nitrobenzene Surr	72		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Terphenyl Surr	96		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-3	SA-31								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
CCME BTEX + F1-F4									
CCME Total Hydrocarbons									
F1 (C6-C10)		6		5	mg/kg		21-JUN-07		
F1-BTEX		6		5	mg/kg		21-JUN-07		
F2 (C10-C16)		920		5	mg/kg		21-JUN-07		
F3 (C16-C34)		18000		5	mg/kg		21-JUN-07		
F4 (C34-C50)		4000		5	mg/kg		21-JUN-07		
Total Hydrocarbons (C6-C50)		23000		5	mg/kg		21-JUN-07		
Chromatogram to baseline at nC50		YES					21-JUN-07		
CCME Total Extractable Hydrocarbons									
Prep/Analysis Dates						19-JUN-07	21-JUN-07	THT	R538185
CCME BTEX									
Benzene		0.020		0.005	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Toluene		0.07		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Ethylbenzene		0.14		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
o-Xylene		0.11		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes, m+p		0.17		0.02	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes		0.28		0.03	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
CCME Metals									
Mercury Total									
Mercury (Hg)-Total		0.34		0.02	mg/kg	18-JUN-07	19-JUN-07	TEP	R538267
CCME Metals									
Silver (Ag)		<1		1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)		5.47		0.03	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)		274	RAMB	0.04	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)		0.23		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)		1.58		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)		4.93	RAMB	0.01	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)		23.1		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)		215		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)		6.65		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)		44.4	RAMB	0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)		1220		0.05	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)		13.0		0.07	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)		0.4		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)		10		4	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)		<0.2		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)		0.61		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)		11.1		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)		382		2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
% Moisture		20.7		0.5	%	18-JUN-07	18-JUN-07	SN	R536934
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2,2-Tetrachloroethane		<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,1-Trichloroethane		<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2-Trichloroethane		<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethane		<0.03	DLM	0.025	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethylene		<0.01	DLM	0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dibromoethane		<0.03	DLM	0.025	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichlorobenzene		<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichloroethane		<0.03	DLM	0.025	mg/kg	18-JUN-07	20-JUN-07	DF	R537736

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-3	SA-31								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
Volatile Organics									
	1,2-Dichloropropane	<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,3-Dichlorobenzene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,4-Dichlorobenzene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	2-Hexanone	<1	DLM	1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Acetone	<3	DLM	2.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Benzene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromodichloromethane	<0.03	DLM	0.025	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromoform	<0.3	DLM	0.25	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromomethane	<0.2	DLM	0.15	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon Disulfide	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon tetrachloride	<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chlorobenzene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroethane	<0.2	DLM	0.15	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroform	<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloromethane	<0.2	DLM	0.15	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,2-Dichloroethylene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,3-Dichloropropene	<0.03	DLM	0.025	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dibromochloromethane	<0.05	DLM	0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichlorodifluoromethane	<0.2	DLM	0.15	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichloromethane	<0.5	DLM	0.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Ethyl Benzene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	MTBE	<1	DLM	1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	m+p-Xylenes	<0.2	DLM	0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Ethyl Ketone	<1	DLM	1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Isobutyl Ketone	<1	DLM	1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	o-Xylene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Styrene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Tetrachloroethylene	<0.1	DLM	0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Toluene	<0.3	DLM	0.25	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,2-Dichloroethylene	<0.3	DLM	0.3	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,3-Dichloropropene	<0.03	DLM	0.025	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichloroethylene	<0.3	DLM	0.25	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichlorofluoromethane	<0.2	DLM	0.15	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trihalomethanes (total)	<0.11		0.11	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Vinyl chloride	<0.02	DLM	0.015	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Xylenes (Total)	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Surr:	1,2-Dichloroethane d4	87		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	Toluene-d8	91		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	4-Bromofluorobenzene	104		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
EPA PAH									
	Acenaphthene	13	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Acenaphthylene	2.1		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Anthracene	38	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)anthracene	8.7	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)pyrene	8.6		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(b)fluoranthene	11	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(ghi)perylene	7.4		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(k)fluoranthene	3.3		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Chrysene	12	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Dibenzo(ah)anthracene	1.4		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-3	SA-31								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
EPA PAH									
	Fluoranthene	33	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Fluorene	15	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Indeno(1,2,3 cd)pyrene	7.2		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Naphthalene	9.6	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	1-Methyl Naphthalene	0.5	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	2-Methyl Naphthalene	0.2	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Phenanthrene	48	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Pyrene	35	DLA	0.1	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	2-Fluorobiphenyl Surr	98		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Nitrobenzene Surr	88		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Terphenyl Surr	96		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-4	SA-11								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
CCME BTEX + F1-F4									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		21-JUN-07		
F1-BTEX		<5		5	mg/kg		21-JUN-07		
F2 (C10-C16)		<5		5	mg/kg		21-JUN-07		
F3 (C16-C34)		<5		5	mg/kg		21-JUN-07		
F4 (C34-C50)		<5		5	mg/kg		21-JUN-07		
Total Hydrocarbons (C6-C50)		<5		5	mg/kg		21-JUN-07		
Chromatogram to baseline at nC50		YES					21-JUN-07		
CCME Total Extractable Hydrocarbons									
Prep/Analysis Dates						19-JUN-07	21-JUN-07	THT	R538185
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Toluene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Ethylbenzene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
o-Xylene		0.03		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes, m+p		<0.02		0.02	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes		0.04		0.03	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
CCME Metals									
Mercury Total									
Mercury (Hg)-Total		0.06		0.02	mg/kg	18-JUN-07	19-JUN-07	TEP	R538267
CCME Metals									
Silver (Ag)		<1		1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)		6.87		0.03	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)		102	RAMB	0.04	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)		1.16		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)		1.38		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)		10.7	RAMB	0.01	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)		28.8		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)		26.2		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)		0.73		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)		36.4	RAMB	0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)		23.8		0.05	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)		<0.07		0.07	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)		0.6		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)		<4		4	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)		0.4		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)		2.22		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)		30.1		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)		109		2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
% Moisture		28.8		0.5	%	18-JUN-07	18-JUN-07	SN	R536934
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,1-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethylene		<0.002		0.002	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dibromoethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-4 SA-11									
Sampled By: CLIENT on 13-JUN-07									
Matrix: SOIL									
Volatile Organics									
1,2-Dichloropropane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,3-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,4-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
2-Hexanone		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Acetone		<0.5		0.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Benzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Bromodichloromethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Bromoform		<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Bromomethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Carbon Disulfide		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Carbon tetrachloride		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chloroethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chloroform		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Chloromethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
cis-1,2-Dichloroethylene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
cis-1,3-Dichloropropene		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Dibromochloromethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Dichlorodifluoromethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Dichloromethane		<0.1		0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Ethyl Benzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
MTBE		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
m+p-Xylenes		<0.04		0.04	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Methyl Ethyl Ketone		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Methyl Isobutyl Ketone		<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
o-Xylene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Styrene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Tetrachloroethylene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Toluene		<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
trans-1,2-Dichloroethylene		<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
trans-1,3-Dichloropropene		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Trichloroethylene		<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Trichlorofluoromethane		<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Trihalomethanes (total)		<0.11		0.11	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Vinyl chloride		<0.003		0.003	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Xylenes (Total)		<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Surr:	1,2-Dichloroethane d4	113		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	Toluene-d8	86		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	4-Bromofluorobenzene	104		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
EPA PAH									
Acenaphthene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Acenaphthylene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Anthracene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(a)anthracene		0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(a)pyrene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(ghi)perylene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Chrysene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Dibenzo(ah)anthracene		<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-4	SA-11								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
EPA PAH									
	Fluoranthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Fluorene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Indeno(1,2,3 cd)pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Naphthalene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	1-Methyl Naphthalene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	2-Methyl Naphthalene	0.03		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Phenanthrene	0.03		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	2-Fluorobiphenyl Surr	74		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Nitrobenzene Surr	78		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Terphenyl Surr	94		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-5	SA-24								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
CCME BTEX + F1-F4									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		21-JUN-07		
F1-BTEX		<5		5	mg/kg		21-JUN-07		
F2 (C10-C16)		<5		5	mg/kg		21-JUN-07		
F3 (C16-C34)		16		5	mg/kg		21-JUN-07		
F4 (C34-C50)		16		5	mg/kg		21-JUN-07		
Total Hydrocarbons (C6-C50)		32		5	mg/kg		21-JUN-07		
Chromatogram to baseline at nC50		YES					21-JUN-07		
CCME Total Extractable Hydrocarbons									
Prep/Analysis Dates						19-JUN-07	21-JUN-07	THT	R538185
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Toluene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Ethylbenzene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
o-Xylene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes, m+p		<0.02		0.02	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes		<0.03		0.03	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
CCME Metals									
Mercury Total									
Mercury (Hg)-Total		0.04		0.02	mg/kg	18-JUN-07	19-JUN-07	TEP	R538267
CCME Metals									
Silver (Ag)		<1		1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)		3.67		0.03	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)		95.5	RAMB	0.04	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)		0.42		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)		0.14		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)		6.50	RAMB	0.01	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)		19.0		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)		17.3		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)		0.28		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)		20.2	RAMB	0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)		25.8		0.05	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)		<0.07		0.07	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)		<0.1		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)		<4		4	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)		<0.2		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)		0.92		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)		25.3		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)		36		2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
% Moisture		19.3		0.5	%	18-JUN-07	18-JUN-07	SN	R536934
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,1-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethylene		<0.002		0.002	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dibromoethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-5	SA-24								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
Volatile Organics									
	1,2-Dichloropropane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,3-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,4-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	2-Hexanone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Acetone	<0.5		0.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Benzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromodichloromethane	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromoform	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromomethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon Disulfide	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon tetrachloride	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroform	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,2-Dichloroethylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,3-Dichloropropene	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dibromochloromethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichlorodifluoromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichloromethane	<0.1		0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Ethyl Benzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	MTBE	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	m+p-Xylenes	<0.04		0.04	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Ethyl Ketone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Isobutyl Ketone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	o-Xylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Styrene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Tetrachloroethylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Toluene	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,2-Dichloroethylene	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,3-Dichloropropene	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichloroethylene	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichlorofluoromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trihalomethanes (total)	<0.11		0.11	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Vinyl chloride	<0.003		0.003	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Xylenes (Total)	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Surr:	1,2-Dichloroethane d4	108		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	Toluene-d8	89		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	4-Bromofluorobenzene	102		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
EPA PAH									
	Acenaphthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Acenaphthylene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Anthracene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)anthracene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(b)fluoranthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(ghi)perylene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Chrysene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Dibenzo(ah)anthracene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-5	SA-24								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
EPA PAH									
	Fluoranthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Fluorene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Indeno(1,2,3 cd)pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Naphthalene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	1-Methyl Naphthalene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	2-Methyl Naphthalene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Phenanthrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Pyrene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	2-Fluorobiphenyl Surr	76		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Nitrobenzene Surr	76		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Terphenyl Surr	94		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-6	SA-18								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
CCME BTEX + F1-F4									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		21-JUN-07		
F1-BTEX		<5		5	mg/kg		21-JUN-07		
F2 (C10-C16)		<5		5	mg/kg		21-JUN-07		
F3 (C16-C34)		9		5	mg/kg		21-JUN-07		
F4 (C34-C50)		<5		5	mg/kg		21-JUN-07		
Total Hydrocarbons (C6-C50)		9		5	mg/kg		21-JUN-07		
Chromatogram to baseline at nC50		YES					21-JUN-07		
CCME Total Extractable Hydrocarbons									
Prep/Analysis Dates						19-JUN-07	21-JUN-07	THT	R538185
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Toluene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Ethylbenzene		<0.01		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
o-Xylene		0.06		0.01	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes, m+p		<0.02		0.02	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
Xylenes		0.07		0.03	mg/kg	15-JUN-07	19-JUN-07	JAP	R537967
CCME Metals									
Mercury Total									
Mercury (Hg)-Total		0.04		0.02	mg/kg	18-JUN-07	19-JUN-07	TEP	R538267
CCME Metals									
Silver (Ag)		<1		1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)		3.53		0.03	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)		206	RAMB	0.04	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)		0.25		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)		0.15		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)		6.48	RAMB	0.01	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)		15.1		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)		16.5		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)		0.82		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)		14.2	RAMB	0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)		47.5		0.05	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)		<0.07		0.07	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)		0.1		0.1	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)		<4		4	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)		<0.2		0.2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)		0.75		0.02	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)		15.5		0.06	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)		33		2	mg/kg	18-JUN-07	19-JUN-07	DAG	R537692
% Moisture		15.0		0.5	%	18-JUN-07	18-JUN-07	SN	R536934
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2,2-Tetrachloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,1-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1,2-Trichloroethane		<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,1-Dichloroethylene		<0.002		0.002	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dibromoethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichlorobenzene		<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
1,2-Dichloroethane		<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-6	SA-18								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
Volatile Organics									
	1,2-Dichloropropane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,3-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	1,4-Dichlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	2-Hexanone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Acetone	<0.5		0.5	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Benzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromodichloromethane	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromoform	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Bromomethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon Disulfide	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Carbon tetrachloride	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chlorobenzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloroform	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Chloromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,2-Dichloroethylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	cis-1,3-Dichloropropene	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dibromochloromethane	<0.01		0.01	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichlorodifluoromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Dichloromethane	<0.1		0.1	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Ethyl Benzene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	MTBE	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	m+p-Xylenes	<0.04		0.04	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Ethyl Ketone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Methyl Isobutyl Ketone	<0.2		0.2	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	o-Xylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Styrene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Tetrachloroethylene	<0.02		0.02	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Toluene	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,2-Dichloroethylene	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	trans-1,3-Dichloropropene	<0.005		0.005	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichloroethylene	<0.05		0.05	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trichlorofluoromethane	<0.03		0.03	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Trihalomethanes (total)	<0.11		0.11	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Vinyl chloride	<0.003		0.003	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
	Xylenes (Total)	<0.06		0.06	mg/kg	18-JUN-07	20-JUN-07	DF	R537736
Surr:	1,2-Dichloroethane d4	101		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	Toluene-d8	88		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
Surr:	4-Bromofluorobenzene	98		70-130	%	18-JUN-07	20-JUN-07	DF	R537736
EPA PAH									
	Acenaphthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Acenaphthylene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Anthracene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)anthracene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(a)pyrene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(b)fluoranthene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(ghi)perylene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Chrysene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Dibenzo(ah)anthracene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L517654-6	SA-18								
Sampled By:	CLIENT on 13-JUN-07								
Matrix:	SOIL								
EPA PAH									
	Fluoranthene	0.02		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Fluorene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Indeno(1,2,3 cd)pyrene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Naphthalene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	1-Methyl Naphthalene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	2-Methyl Naphthalene	<0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Phenanthrene	0.01		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
	Pyrene	0.02		0.01	mg/kg	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	2-Fluorobiphenyl Surr	78		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Nitrobenzene Surr	80		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
Surr:	Terphenyl Surr	90		25-175	%	20-JUN-07	21-JUN-07	JAP	R538422
* Refer to Referenced Information for Qualifiers (if any) and Methodology.									

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLA	Detection Limit Adjusted For Dilution
DLM	Detection Limit Adjustment For Sample Matrix Effects
RAMB	Result Adjusted For Method Blank

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
ETL-BTX,TVH-CCME-WP	Soil	CCME BTEX		CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-TEH-CCME-WP	Soil	CCME Total Extractable Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-TVH,TEH-CCME-WP	Soil	CCME Total Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

HG-TOT-CV-WP	Soil	Mercury Total	EPA 7470A Rev 1,1994
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A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

METAL-CCME-NOHG-WP	Soil	CCME Metals	EPA SW846 3050B Rev 2 1996
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MOISTURE-WT	Soil	% Moisture	Gravimetric: Oven Dried
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PAH-EPA-WP	Soil	EPA PAH	EPA SW846 8270B Sep 1994,3550A Sep 1994
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Samples are ground into sodium sulfate and extracted with acetone/dichloromethane using a combination of high frequency sonication and shake using a wrist-action shaker. After extract concentration, samples are analyzed by GC/MS.

VOC-ROU-WT	Soil	Volatile Organics	EPA 8260
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** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

The last two letters of the above test code(s) 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA	WT	ALS LABORATORY GROUP - WATERLOO (SENTINEL), ONTARIO, CAN

Reference Information

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. The Laboratory control limits are determined under column heading D.L.

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

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

< - Less than

D.L. - Detection Limit

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.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

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.

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ORDERED: JUNE 21/01
 PAYMENT (CHECK ONE):
 AS PER QUOTE #: ☐
 AS PER LIST PRICE: ☐

DATE REQUIRED - June 21/07

DATE SUBMITTED: 01/10/08

ANALYSIS REQUESTED:

ADULTS ONLY

5
SAMPLE RECEIVED (1 OF 2)
SAMPLE BROKEN (1 OF 2)

LAB SAMPLE NO.

h596157

2nd Vol
PAN-3-44
BIT, TWH, TEH
M201-CCM

SAMPLE ID	SAMPLED BY	DATE/TIME SAMPLED	SAMPLE TYPE	LAB SAMPLE NO.
SA-40		July 13/27	Soil	1
SA-3				2
SA-31				3
SA-11				4
SA-24				5
SA-18				6

NOTES & CORRECTIONS

1. Quota number must be provided to ensure proper pricing.

2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the nature of the hazard, as well as a contact name and phone number that the lab can contact for further information.

3. ALS's liability limited to cost of analysis.

NOTE: Failure to properly complete all portions of this form may delay submission.

NO SAMPLES SUBMITTED

9

NO. BOTTLED BY:



RELAUNCHED BY: DATE:

RECEIVED BY 11

DATE 10/1/87

TIME

5

TIME 010

TIME

TIME

SAMPLE CONDITION UPON RECEIPT: ☐ ACCEPTABLE ☐ NON ACCEPTABLE

FROZEN: ☐ COLD: ☒ AMBIENT: ☐

WHITE - File Copy
GREEN - Final Report
PINK - Invoicing
BLUE - Credit Support
YELLOW - Customer

OTHER (BREAKAGE, LEAKAGE, ETC.):

1. **TECHNICAL SUPPORT**
2. **BLUE - CREDIT SUPPORT**
3. **YELLOW - CUSTOMER**

NEW OCT. / 2008

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

ANALYTICAL REPORT

GOLDER ASSOCIATES LTD

ATTN: KEVIN BEECHINOR

Unit 6 - 5 Scurfield Blvd

WINNIPEG MB R3Y 1G6

Reported On: 22-JUN-07 02:49 PM

Lab Work Order #: **L518129**

Date Received: **14-JUN-07**

Project P.O. #:

Job Reference: 07-1380-0030

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

APPROVED BY:

Paul Nicolas

PAUL NICOLAS

Project 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.

Manitoba Technology Centre Ltd.

Part of the **ALS Laboratory Group**

1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4

Phone: +1 204 255 9720 Fax: +1 204 255 9721 www.alsglobal.com

A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-1	GA07-1								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1,2,2-Tetrachloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1,1-Trichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1,2-Trichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dibromoethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1-Dichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1-Dichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dichlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dichloropropane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,3-Dichlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,4-Dichlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
2-Hexanone		<20		20	ug/L		19-JUN-07	SK	R537047
Acetone		<20		20	ug/L		19-JUN-07	SK	R537047
Benzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Bromodichloromethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Bromoform		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Bromomethane		<1		1	ug/L		19-JUN-07	SK	R537047
Carbon Disulfide		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Carbon tetrachloride		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Chlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Chloroethane		<1		1	ug/L		19-JUN-07	SK	R537047
Chloroform		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Chloromethane		<1		1	ug/L		19-JUN-07	SK	R537047
cis-1,2-Dichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
cis-1,3-Dichloropropene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Dibromochloromethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Dichlorodifluoromethane		<1		1	ug/L		19-JUN-07	SK	R537047
Dichloromethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Ethyl Benzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
m+p-Xylenes		<1		1	ug/L		19-JUN-07	SK	R537047
Methyl Ethyl Ketone		<20		20	ug/L		19-JUN-07	SK	R537047
Methyl Isobutyl Ketone		<20		20	ug/L		19-JUN-07	SK	R537047
MTBE		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
o-Xylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Styrene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Tetrachloroethylene		<0.5		0.5	ug/L		19-JUN-07	DF	R537488
Toluene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
trans-1,2-Dichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
trans-1,3-Dichloropropene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Trichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Trichlorofluoromethane		<1		1	ug/L		19-JUN-07	SK	R537047
Trihalomethanes (total)		<2.0		2	ug/L		19-JUN-07	SK	R537047
Vinyl chloride		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Xylenes (Total)		<1.5		1.5	ug/L		19-JUN-07	SK	R537047
Surr: 1,2-Dichloroethane d4		102		51-150	%		19-JUN-07	SK	R537047
Surr: Toluene-d8		95		72-123	%		19-JUN-07	SK	R537047
Surr: 4-Bromofluorobenzene		104		50-150	%		19-JUN-07	SK	R537047
Metal scan, dissolved plus Mercury									
Silver (Ag)-Dissolved		<0.0005		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-1	GA07-1								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
Metal scan, dissolved plus Mercury									
Aluminum (Al)-Dissolved		<0.02		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)-Dissolved		0.0038		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Boron (B)-Dissolved		0.52		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)-Dissolved		0.0437		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Bismuth (Bi)-Dissolved		<0.0003		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Calcium (Ca)-Dissolved		457		0.05	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)-Dissolved		0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)-Dissolved		0.0048		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cesium (Cs)-Dissolved		<0.0001		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)-Dissolved		0.0083		0.0004	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Iron (Fe)-Dissolved		32.9		0.01	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Potassium (K)-Dissolved		7.65		0.05	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Magnesium (Mg)-Dissolved		291		0.01	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Manganese (Mn)-Dissolved		1.13		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Mercury (Hg)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)-Dissolved		0.0030		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Sodium (Na)-Dissolved		164		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)-Dissolved		0.0112		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Phosphorus (P)-Dissolved		<0.02		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)-Dissolved		0.0002		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Rubidium (Rb)-Dissolved		0.0047		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)-Dissolved		0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)-Dissolved		0.004		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Silicon (Si)-Dissolved		10.1		0.2	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)-Dissolved		<0.0003		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Strontium (Sr)-Dissolved		1.03		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tellurium (Te)-Dissolved		<0.0005		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Titanium (Ti)-Dissolved		0.0151		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)-Dissolved		0.0175		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)-Dissolved		0.0116		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)-Dissolved		0.007		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tungsten (W)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)-Dissolved		0.026		0.005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Zirconium (Zr)-Dissolved		0.0006		0.0004	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
EPA PAH									
1-Methyl Naphthalene		0.00006		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
2-Methyl Naphthalene		0.00009		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Acenaphthene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Acenaphthylene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Anthracene		<0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(a)anthracene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(a)pyrene		0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(b)fluoranthene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(ghi)perylene		0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(k)fluoranthene		<0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Chrysene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Dibenzo(ah)anthracene		<0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Fluoranthene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-1	GA07-1								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
EPA PAH									
	Fluorene	<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Indeno(1,2,3 cd)pyrene	0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Naphthalene	<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Phenanthrene	0.00004		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Pyrene	0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Surr:	2-Fluorobiphenyl Surr	76		25-175	%	20-JUN-07	21-JUN-07	JAP	R538539
Surr:	Nitrobenzene Surr	77		25-175	%	20-JUN-07	21-JUN-07	JAP	R538539
Surr:	Terphenyl Surr	81		25-175	%	20-JUN-07	21-JUN-07	JAP	R538539

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-2	GA07-4								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
Volatile Organics									
	1,1,1,2-Tetrachloroethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,1,2,2-Tetrachloroethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,1,1-Trichloroethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,1,2-Trichloroethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,2-Dibromoethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,1-Dichloroethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,1-Dichloroethylene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,2-Dichlorobenzene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,2-Dichloroethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,2-Dichloropropane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,3-Dichlorobenzene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	1,4-Dichlorobenzene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	2-Hexanone	<20		20	ug/L		19-JUN-07	SK	R537047
	Acetone	<20		20	ug/L		19-JUN-07	SK	R537047
	Benzene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Bromodichloromethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Bromoform	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Bromomethane	<1		1	ug/L		19-JUN-07	SK	R537047
	Carbon Disulfide	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Carbon tetrachloride	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Chlorobenzene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Chloroethane	<1		1	ug/L		19-JUN-07	SK	R537047
	Chloroform	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Chloromethane	<1		1	ug/L		19-JUN-07	SK	R537047
	cis-1,2-Dichloroethylene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	cis-1,3-Dichloropropene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Dibromochloromethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Dichlorodifluoromethane	<1		1	ug/L		19-JUN-07	SK	R537047
	Dichloromethane	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Ethyl Benzene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	m+p-Xylenes	<1		1	ug/L		19-JUN-07	SK	R537047
	Methyl Ethyl Ketone	<20		20	ug/L		19-JUN-07	SK	R537047
	Methyl Isobutyl Ketone	<20		20	ug/L		19-JUN-07	SK	R537047
	MTBE	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	o-Xylene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Styrene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Tetrachloroethylene	<0.5	RAMB	0.5	ug/L		19-JUN-07	SK	R537047
	Toluene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	trans-1,2-Dichloroethylene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	trans-1,3-Dichloropropene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Trichloroethylene	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Trichlorofluoromethane	<1		1	ug/L		19-JUN-07	SK	R537047
	Trihalomethanes (total)	<2.0		2	ug/L		19-JUN-07	SK	R537047
	Vinyl chloride	<0.5		0.5	ug/L		19-JUN-07	SK	R537047
	Xylenes (Total)	<1.5		1.5	ug/L		19-JUN-07	SK	R537047
Surr:	1,2-Dichloroethane d4	104		51-150	%		19-JUN-07	SK	R537047
Surr:	Toluene-d8	95		72-123	%		19-JUN-07	SK	R537047
Surr:	4-Bromofluorobenzene	104		50-150	%		19-JUN-07	SK	R537047
Metal scan, dissolved plus Mercury									
	Silver (Ag)-Dissolved	<0.0005		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-2	GA07-4								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
Metal scan, dissolved plus Mercury									
Aluminum (Al)-Dissolved		<0.02		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)-Dissolved		0.0266		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Boron (B)-Dissolved		0.73		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)-Dissolved		0.0214		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Bismuth (Bi)-Dissolved		<0.0003		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Calcium (Ca)-Dissolved		325		0.05	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)-Dissolved		0.0086		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cesium (Cs)-Dissolved		<0.0001		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)-Dissolved		0.0088		0.0004	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Iron (Fe)-Dissolved		7.66		0.01	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Potassium (K)-Dissolved		9.55		0.05	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Magnesium (Mg)-Dissolved		554		0.01	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Manganese (Mn)-Dissolved		0.625		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Mercury (Hg)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)-Dissolved		0.0012		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Sodium (Na)-Dissolved		493		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)-Dissolved		0.0180		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Phosphorus (P)-Dissolved		<0.02		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)-Dissolved		0.0003		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Rubidium (Rb)-Dissolved		0.0017		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)-Dissolved		0.006		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Silicon (Si)-Dissolved		5.5		0.2	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)-Dissolved		<0.0003		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Strontium (Sr)-Dissolved		3.36		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tellurium (Te)-Dissolved		<0.0005		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Titanium (Ti)-Dissolved		0.0225		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)-Dissolved		0.0078		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)-Dissolved		0.0087		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)-Dissolved		0.019		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tungsten (W)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)-Dissolved		0.020		0.005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Zirconium (Zr)-Dissolved		0.0083		0.0004	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
EPA PAH									
1-Methyl Naphthalene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
2-Methyl Naphthalene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Acenaphthene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Acenaphthylene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Anthracene		0.00003		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(a)anthracene		0.00004		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(a)pyrene		0.00005		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(b)fluoranthene		0.00008		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(ghi)perylene		0.00004		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(k)fluoranthene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Chrysene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Dibenzo(ah)anthracene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Fluoranthene		0.00007		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539

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Rev# 1.00

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Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-3	GA07-6								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
Volatile Organics									
1,1,1,2-Tetrachloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1,2,2-Tetrachloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1,1-Trichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1,2-Trichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dibromoethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1-Dichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,1-Dichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dichlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dichloroethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,2-Dichloropropane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,3-Dichlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
1,4-Dichlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
2-Hexanone		<20		20	ug/L		19-JUN-07	SK	R537047
Acetone		<20		20	ug/L		19-JUN-07	SK	R537047
Benzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Bromodichloromethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Bromoform		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Bromomethane		<1		1	ug/L		19-JUN-07	SK	R537047
Carbon Disulfide		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Carbon tetrachloride		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Chlorobenzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Chloroethane		<1		1	ug/L		19-JUN-07	SK	R537047
Chloroform		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Chloromethane		<1		1	ug/L		19-JUN-07	SK	R537047
cis-1,2-Dichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
cis-1,3-Dichloropropene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Dibromochloromethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Dichlorodifluoromethane		<1		1	ug/L		19-JUN-07	SK	R537047
Dichloromethane		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Ethyl Benzene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
m+p-Xylenes		<1		1	ug/L		19-JUN-07	SK	R537047
Methyl Ethyl Ketone		<20		20	ug/L		19-JUN-07	SK	R537047
Methyl Isobutyl Ketone		<20		20	ug/L		19-JUN-07	SK	R537047
MTBE		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
o-Xylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Styrene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Tetrachloroethylene		<0.5	RAMB	0.5	ug/L		19-JUN-07	SK	R537047
Toluene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
trans-1,2-Dichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
trans-1,3-Dichloropropene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Trichloroethylene		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Trichlorofluoromethane		<1		1	ug/L		19-JUN-07	SK	R537047
Trihalomethanes (total)		<2.0		2	ug/L		19-JUN-07	SK	R537047
Vinyl chloride		<0.5		0.5	ug/L		19-JUN-07	SK	R537047
Xylenes (Total)		<1.5		1.5	ug/L		19-JUN-07	SK	R537047
Surr: 1,2-Dichloroethane d4		102		51-150	%		19-JUN-07	SK	R537047
Surr: Toluene-d8		96		72-123	%		19-JUN-07	SK	R537047
Surr: 4-Bromofluorobenzene		104		50-150	%		19-JUN-07	SK	R537047
Metal scan, dissolved plus Mercury									
Silver (Ag)-Dissolved		<0.0005		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-3	GA07-6								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
Metal scan, dissolved plus Mercury									
Aluminum (Al)-Dissolved		<0.02		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Arsenic (As)-Dissolved		0.0071		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Boron (B)-Dissolved		2.82		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Barium (Ba)-Dissolved		0.0417		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Beryllium (Be)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Bismuth (Bi)-Dissolved		<0.0003		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Calcium (Ca)-Dissolved		255		0.05	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cadmium (Cd)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cobalt (Co)-Dissolved		0.0048		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Chromium (Cr)-Dissolved		<0.001		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Cesium (Cs)-Dissolved		<0.0001		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Copper (Cu)-Dissolved		0.0059		0.0004	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Iron (Fe)-Dissolved		0.37		0.01	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Potassium (K)-Dissolved		27.5		0.05	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Magnesium (Mg)-Dissolved		436		0.01	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Manganese (Mn)-Dissolved		1.29		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Mercury (Hg)-Dissolved		<0.0002		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Molybdenum (Mo)-Dissolved		0.100		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Sodium (Na)-Dissolved		380		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Nickel (Ni)-Dissolved		0.0198		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Phosphorus (P)-Dissolved		<0.02		0.02	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Lead (Pb)-Dissolved		0.0008		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Rubidium (Rb)-Dissolved		0.0057		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Antimony (Sb)-Dissolved		0.030		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Selenium (Se)-Dissolved		0.003		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Silicon (Si)-Dissolved		7.2		0.2	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tin (Sn)-Dissolved		0.0003		0.0003	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Strontium (Sr)-Dissolved		1.56		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tellurium (Te)-Dissolved		<0.0005		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Titanium (Ti)-Dissolved		0.0136		0.0005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Thallium (Tl)-Dissolved		0.0066		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Uranium (U)-Dissolved		0.0123		0.0001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Vanadium (V)-Dissolved		0.024		0.001	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Tungsten (W)-Dissolved		0.0128		0.0002	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Zinc (Zn)-Dissolved		0.109		0.005	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
Zirconium (Zr)-Dissolved		0.0060		0.0004	mg/L	19-JUN-07	19-JUN-07	DAG	R537692
EPA PAH									
1-Methyl Naphthalene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
2-Methyl Naphthalene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Acenaphthene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Acenaphthylene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Anthracene		0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(a)anthracene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(a)pyrene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(b)fluoranthene		0.00003		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(ghi)perylene		0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Benzo(k)fluoranthene		0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Chrysene		<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Dibenzo(ah)anthracene		<0.00001		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Fluoranthene		0.00003		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L518129-3	GA07-6								
Sampled By:	CWB on 14-JUN-07								
Matrix:	WATER								
EPA PAH									
	Fluorene	<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Indeno(1,2,3 cd)pyrene	0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Naphthalene	<0.00005		0.00005	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Phenanthrene	0.00002		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
	Pyrene	0.00003		0.00001	mg/L	20-JUN-07	21-JUN-07	JAP	R538539
Surr:	2-Fluorobiphenyl Surr	76		25-175	%	20-JUN-07	21-JUN-07	JAP	R538539
Surr:	Nitrobenzene Surr	85		25-175	%	20-JUN-07	21-JUN-07	JAP	R538539
Surr:	Terphenyl Surr	78		25-175	%	20-JUN-07	21-JUN-07	JAP	R538539
* Refer to Referenced Information for Qualifiers (if any) and Methodology.									

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
RAMB	Result Adjusted For Method Blank

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
MET-SC+HG-DIS-LOW-WP	Water	Metal scan, dissolved plus Mercury		EPA 200.8 Rev 5.4 May 1994
PAH-EPA-WP	Water	EPA PAH		EPA SW846 8270B Sep 1994,3510B Sep 1992
Samples are stored in the dark at 4 degrees C until extraction. Samples are partitioned at basic and acidic pH with dichloromethane, concentrated and esterified (if run in conjunction with pentachlorophenol). Extracts are analyzed by Gas Chromatography / Mass Spectrometry in the selected ion monitoring mode.				
VOC-ROU-WT	Water	Volatile Organics		SW846 8260

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

Chain of Custody numbers:

The last two letters of the above test code(s) 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA	WT	ALS LABORATORY GROUP - WATERLOO (SENTINEL), ONTARIO, CAN

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. The Laboratory control limits are determined under column heading D.L.

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

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

< - Less than

D.L. - Detection Limit

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.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

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.

FINAL REPORT ON

TEST PIT INVESTIGATION

CONSOLIDATED FASTFRATE SITE
WINNIPEG, MANITOBA

Submitted to:

Consolidated Fastfrate Inc.
477 Keewatin Street
Winnipeg, Manitoba
R2X 2S1
Attention: Mr. Don McCuaig

DISTRIBUTION:

2 Copy - Consolidate Fastfrate Inc., Winnipeg, Manitoba
2 Copy - Golder Associates Ltd., Winnipeg, Manitoba

September 2008

08-1380-0004



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INTRODUCTION

Golder Associates Ltd. (Golder) was retained by Consolidated Fastfrate Inc. (Fastfrate) to conduct a Test Pit Investigation of the soil stockpile located on Canadian Pacific (CP) property adjacent to the east of 477 and 505 Keewatin Street in Winnipeg, Manitoba. 477 and 505 Keewatin Street combined with the portion of CP property containing the stockpiled soil is legally described as Lot 2 Plan 42883 and Part Parcel D Plan 38225 Parish of St. John OTM Lot 35 (hereafter referred to as the "Site"). It is understood that the Test Pit Investigation is required to more accurately estimate the cost of redeveloping the Site as part of a potential purchase from CP.

Site Description

The Site is located at 477 and 505 Keewatin Street in Winnipeg, Manitoba and is currently owned by CP. Fastfrate currently leases a 2.2 hectare portion of land from CP where it operates its trucking and cross-docking facility. The currently leased portion of the Site is comprised of two commercial buildings. The eastern portion of the Site is a vacant portion of land, approximately 2.2 hectares in area, located adjacent to the east of the currently leased portion of the Site. The lands to the east are to be included in the purchase from CP as part of a planned redevelopment and expansion of Fastfrate's facilities. The land to the east of the current Fastfrate Site consists of generally unused portion of CP's Weston Yards. It is vacant land with a rail line, piles of old metal parts, railway ties, as well as a built up area where fill was reportedly deposited.

The built up area of fill in the eastern portion of the Site is the subject of the Test Pit Investigation. This fill consists of soils stockpiled, reportedly, from historical track decommissioning activities. The stockpile is divided into two sections (north stockpile and south stockpile) by a drainage ditch as shown on Figure 2.

Background

Golder was retained by Fastfrate to conduct a Phase I Environmental Site Assessment (ESA) of the Site in April 2007. The results of the Phase I ESA were presented in the report entitled "*Draft Report on Phase I Environmental Site Assessment at 477 and 505 Keewatin Street*", dated May 2007.

Based on the results of the Phase I ESA, the following issues of environmental concern were identified:

- a review of aerial photographs as well as a review of the Dillon 2002 Material Characterization Report showed evidence that significant amounts of fill were placed on the site in the past. The source of some of the historical fill noted in the aerial photographs is not known. Soils stockpiled in the eastern portion of the Site are reportedly from historical track decommissioning activities. A Material Characterization Report was completed in 2002 to characterize material stockpiled on the east portion of the site. Investigations completed for the preparation of this report reported concentrations of the F3 hydrocarbon fraction and metals above the regulatory criteria. This is considered an issue of potential environmental concern given the exceedances of regulatory criteria of soils in the eastern portion of the Site, as well as the unknown quality of soils used for historical fill material in other areas of the Site and surrounding areas; and,
- two Underground Storage Tanks (UST) used for gasoline and fuel oil were removed in 1996. The gasoline tank at the time of removal passed Level III cleanup criteria described by Manitoba Environment. Under current Canadian Council of Ministers of the Environment (CCME) guidelines the level of benzene found in 3 of the 7 soil samples taken from the excavation pit exceed the guidelines. The removal of the fuel oil UST was followed by a supplementary soil clean up program. The results of this program indicate contaminate concentrations are below all current and historical guidelines.

Golder was subsequently retained by Fastfrate to conduct a Phase II ESA of the Site in June 2007 to follow up on the results of the Phase I ESA. The results of the Phase II ESA were presented in the report entitled "*Draft Report on Phase II Environmental Site Assessment, Consolidated Fastfrate Site, Winnipeg Manitoba*", dated July 2007.

Following are the results of the Phase II ESA:

- concentrations of Volatile Organic Compounds (VOC) in all soil samples analyzed were below detection limits;
- concentrations of petroleum hydrocarbons, metals and one Polycyclic Aromatic Hydrocarbon (PAH) parameter were detected at concentrations in excess of criteria in soil samples collected from the Site. With the exception of one sample from the former UST area containing arsenic above soil guideline criteria, all exceedances of soil guideline criteria were detected in soil samples collected from soil material believed to be fill, stockpiled in the eastern portion of the Site from previous CP activities;
- impacts are present within the soil stockpile present in the eastern portion of the Site. The stockpiled area is divided into two parts, which are separated by a drainage ditch. Approximately 20,000 m³ of stockpiled soil would have to be removed to level the Site. Approximately 10,000 m³ of this soil is located south of the drainage ditch and approximately 10,000 m³ is located north of the drainage ditch;

- the soil sample from the former UST area containing arsenic above soil guideline criteria was collected from a depth where significant amount of cinders were observed in the soil. The origin of the cinders is likely from historical fill activities at the rail yard noted in the Phase I ESA. Soil samples submitted for laboratory analysis from the vicinity of the former fuel UST noted in the Phase I ESA had no detectable hydrocarbon impacts; and,
- concentrations of VOCs, PAHs, and dissolved metals in all groundwater samples collected were below applicable guidelines.

Scope of Work

Based on the results of the Phase I ESA and Phase II ESA, contaminated soil stockpiled on the east portion of the Site would require disposal before the Site could be redeveloped. Golder provided a cost estimate and work plan for a Test Pit Investigation at the east portion of the Site. The purpose of the Test Pit Investigation was to investigate the extent of contaminated soil within the stockpile. The scope of work for the investigations carried out at the Site involved:

- setting up a grid of 10 m by 10 m sections on the stockpiled soil;
- digging forty five (45) test pits, one within each 10 m by 10 m section of the grid on the stockpiled soil;
- collecting soil samples at each test pit location;
- submitting a total of forty five (45) selected soil samples from the test pits for chemical analysis for Canadian Council of Ministers of the Environment (CCME) petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene, and xylenes (BTEX); and,
- estimating the quantity of contaminated soil.

Written authorization to proceed with the work program was provided to Golder by Kevin Hankinson of Fastfrate on January 8, 2008.

APPLICABLE ENVIRONMENTAL QUALITY GUIDELINES

The principal documents for the evaluation of the environmental quality of soil at hydrocarbon impacted sites in Manitoba are the *Canadian Council of Ministers of the Environment Canadian Soil Quality(SQG) Guidelines for the Protection of Environmental and Human Health* for benzene, toluene, ethylbenzene, and xylenes (BTEX)(CCME SQG 2004) and the *CCME Canada-Wide Standards for Petroleum Hydrocarbon (PCH) in Soil*, (CCME PHC 2001). Manitoba has adopted the CCME SQG guidelines set out for a 10^{-6} incremental risk for cancer. The CCME PHC are used for comparison to petroleum hydrocarbon fractions F1 to F4 concentrations in soil.

To determine applicable regulatory criteria for comparison to chemical analytical results, potential receptors of the contaminants must be identified. The City of Winnipeg provides a domestic water supply to each business and residence. During a brief inspection of the vicinity of the Site, no groundwater wells were observed other than three monitoring wells installed by Golder in June 2007. A search of the Manitoba Water Well database revealed five water wells located within a two kilometre radius of the Site. Well details indicate that the water is drawn from a limestone aquifer approximately 10 to 15 m below surface with a cover layer consisting of a lacustrine clay deposit. The nearest surface water body to the Site is the Red River, located 4.8 km east of the Site.

The Site and surrounding area are of industrial and commercial land use and fine grained soils. Given the 10 to 15 m of fine grained soils inhibiting contaminant migration, the CCME SQG 2004 and CCME PHC potable groundwater guideline/exposure pathway can be eliminated. The applicable CCME SQG 2004 exposure pathway for this site is for vapour inhalation exposure pathway for benzene, and the soil contact guideline for toluene, ethylbenzene and xylenes. The applicable criteria for the PHC fractions are provided in CCME PHC 2001 for eco soil contact exposure pathway for surface soils.

FIELD INVESTIGATION METHODOLOGY

Test Pits

Forty five (45) test pits were excavated between January 17th and 24th, 2008 using a track mounted backhoe supplied by Ken Palson Enterprises Ltd. of Winnipeg, Manitoba. Underground utilities were cleared on January 16, 2008 prior to the commencement of digging. Test pit locations are provided on Figure 3. Test pits were not excavated at the west tip of the south stockpile because a large snow pile made the area inaccessible.

Thirty five test pits (TP1 to TP18 and TP29 to TP45) were located at the south stockpile and ten test pits (TP19 to TP28) were located at the north stockpile. The soil conditions encountered in the test pits are described on the Record of Test Pit Logs contained in Appendix I.

Representative soil samples were collected at each test pit location. Soil samples were split with one sample placed in pre-cleaned laboratory supplied jars, and the remaining portion of the soil sample was placed in a sealed plastic bag and allowed to equilibrate to approximately room temperature. The headspace in each bag was screened for the presence of combustible vapours using a MiniRae Photoionization detector (PID) equipped with a 10.6-eV lamp, and calibrated to 100 ppm isobutylene. The results of the soil headspace screening are presented on the Record of Test Pit Logs in Appendix I.

Forty five soil samples, one from each test pit, were submitted to ALS Laboratory Group in Winnipeg, Manitoba for chemical analysis of BTEX and PHC fractions.

INVESTIGATION RESULTS

Soil Conditions

Details of the conditions encountered in the test pits are presented in the Record of Test Pit Logs included in Appendix I. It should be noted that the subsurface conditions encountered may vary between and beyond the test pits and sampling locations.

Within the maximum depth interval penetrated by the test pits (up to 3.2 m bgs in the south stockpile and up to 3.7 m bgs in the north stockpile), two main types of soil materials were encountered. These materials, in order of increasing depth, are fill and silty clay. Soil in the north stockpile was covered with organic material.

Fill was encountered in all south stockpile test pits from surface to a maximum depth of approximately 2.8 m bgs (TP32). The fill was frozen to a maximum depth of approximately 1.6 m bgs. In the frozen zone, the fill was comprised of silt with some gravel and sand and trace amounts of metal, glass, and wood. Below the frozen zone, the fill contained more clay and less sand. Concrete was also encountered in some test pits. Silty clay was encountered below the fill material. A hydrocarbon odour was noticed in the fill encountered in TP18, TP38, TP39, TP40, TP41, TP42, and TP43.

An approximately 0.1 m thick layer of frozen organic material was encountered above fill in all north stockpile test pits. The fill generally consisted of silty clay with some gravel and trace amounts of concrete, wood, and cinders. Some areas had more silt and some sand. Silty clay was encountered beneath the fill material.

No seepage was observed in any of the test pits.

Soil Quality

Soil analytical results with applicable CCME guidelines are provided in Table 1. Copies of the Laboratory Certificates of Analysis are included in Appendix II. One soil sample from each of the forty five test pits was submitted for chemical analysis of BTEX and PHC fractions (F1 to F4).

Concentrations of BTEX were below detection limits in all submitted samples except for the sample collected from TP18. Toluene, ethylbenzene, and xylenes were detected at concentrations below CCME guidelines in the sample collected from TP18.

Concentrations of PHC fraction F3 in the soil samples collected from TP29, TP40, TP41, TP42, and TP43 exceeded the applicable CCME guideline. Concentrations of PHC fractions F2 and F4 were also above the applicable CCME guidelines in the soil sample collected from TP42. The concentration of PHC fraction F3 in the soil sample collected from TP18 was high (2,000 mg/kg) but below the CCME guideline (2,500 mg/kg). Concentrations of all remaining PHC fractions in all soil samples were below the applicable CCME guidelines.

DISCUSSION

The purpose of the Test Pit Investigation was to investigate the extent of contaminated soil within the stockpile and calculate an approximate volume of contaminated soil.

Concentrations of BTEX in all soil samples analyzed were below CCME guidelines.

Concentrations of petroleum hydrocarbons were detected in excess of CCME guidelines in soil samples collected from the south stockpile. The concentration of PHC fraction F3 exceeded the CCME guideline in soil samples collected from TP29, TP40, TP41, and TP43. The concentration of PHC fractions F2, F3, and F4 exceeded CCME guidelines in the soil sample collected from TP42. Concentrations of petroleum hydrocarbons in the soil samples collected from test pits on the north stockpile (TP19 to TP28) were all below CCME guidelines.

Prior to digging the test pits, a grid of 10 by 10 m sections was laid out on the stockpiled soil. One test pit was dug in each of these 100 m² sections and one soil sample was collected from each test pit. For the purpose of estimating the quantity of contaminated soil, it is assumed that the quality of each soil sample represents the quality of the soil within the 100 m² sections that each respective soil sample was collected from. Five soil samples were found to have petroleum hydrocarbon concentrations above CCME guidelines and one soil sample was found to have a petroleum hydrocarbon concentration just below the CCME guideline, it is assumed that the area of petroleum hydrocarbon contaminated soil includes the 100 m² sections that these soil samples came from, and the area of the stockpile directly adjacent to these sections as shown in Figure 3. The assumed area of petroleum hydrocarbon contaminated soil is approximately 1,200 m². The stockpiled soil, in the test pits where petroleum hydrocarbon contamination was detected, was measured to be an average of approximately 2.4 m in depth. The calculated volume of petroleum hydrocarbon contaminated soil is approximately 2,900 m³.

This volume estimate does not account for the potential that petroleum hydrocarbon contamination extends into adjacent grid sections. If half the area of grid sections adjacent to those identified as containing petroleum hydrocarbon contaminated soil are included, the area increases to approximately 1,650 m² and the estimated volume of hydrocarbon impacted soil is approximately 4,000 m³.

No test pits were excavated at the, approximately 600 m², western tip of the south stockpile due to a large amount of snow piled in that area. Petroleum hydrocarbon concentrations were below CCME guidelines in samples collected from test pits adjacent to this area.

LIMITATIONS AND USE

This report was prepared for the exclusive use of Fastfrate. Golder or its employees will not be responsible for any use of the information contained in this report, or any reliance on or decisions made based on it, by an unauthorized third party.

Our findings are based on data and information collected during the Site investigation, supported by data and information collected during previous site investigations. No assurance is made regarding changes in Site conditions subsequent to the dates of our investigations. Further, subsurface soil conditions were determined at the test pit locations only. Conditions may change beyond and between the investigated locations.

If additional information is discovered in the future, including excavations, borings, or other studies, Golder should be requested to re-evaluate the conclusions presented in this report and provide appropriate amendments.

CLOSURE

We trust the above meet your present requirements. If you have any questions or require additional details, please contact the undersigned.

Yours truly,

GOLDER ASSOCIATES LTD.



Kevin Beechinor, BSc.
Environmental Specialist



Greg Misfeldt, P.Eng.
Principal, Senior Geotechnical Engineer

CB/KB/GM/la

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TABLE

24/09/2008

08-1380-0004

Table 1 - A
Summary of Soil Chemistry Analyses - Petroleum Hydrocarbons
Consolidate Fast Frate
Winnipeg, Manitoba

	CCME 2004 SQGs ¹ and CCME 2001 PHCs ²	TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10	TP11	TP12	TP13	TP14	TP15
Sample																
Sample Collection Date	n/a	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08	1/18/08
Parameter/Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Petroleum Hydrocarbons																
Benzene	0.28	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	330	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes (total)	210	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
PHC F1 (C ₆ -C ₁₀)	660	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PHC F2 (C ₁₀ -C ₁₆)	1,500	7	40	21	25	17	13	38	<5	12	25	18	<5	<5	21	8
PHC F3 (C ₁₆ -C ₃₄)	2,500	69	340	460	1,100	720	1,200	770	150	410	500	690	280	120	880	190
PHC F4 (> C ₃₄)	6,600	34	110	130	760	220	860	280	69	190	180	240	96	85	310	110

Notes:

All Concentrations in mg/kg.

1. Canadian Council of Ministers of the Environment (CCME) - Canadian Soil Quality Guidelines (SQGs) for the Protection of Environmental and Human Health for BTEX (vapour inhalation guideline for benzene and eco soil contact guideline for toluene, ethylbenzene, and xylenes)

2. Canadian Council of Ministers of the Environment (CCME) Canada Wide Standards for Petroleum Hydrocarbons (PHCs) in Soil (2001), Criteria for a commercial land use with fine grained surface soils. Concentrations that are **Bold** exceed the guideline.

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Table 1 - B
Summary of Soil Chemistry Analyses - Petroleum Hydrocarbons
Consolidate Fast Frate
Winnipeg, Manitoba

Sample	TP16	TP17	TP18	TP19	TP20	TP21	TP22	TP23	TP24	TP25	TP26	TP27	TP28	TP29	TP30	TP31	TP32
Sample Collection Date	1/18/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08
Parameter/Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Petroleum Hydrocarbons																	
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	<0.01	<0.01	0.28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes (total)	<0.03	<0.03	0.38	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
PHC F1 (C ₆ -C ₁₀)	<5	<5	29	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PHC F2 (C ₁₀ -C ₁₆)	9	26	560	<5	13	<5	<5	<5	6	<5	8	<5	<5	38	18	<5	<5
PHC F3 (C ₁₆ -C ₃₄)	530	700	2,000	28	410	6	71	18	210	20	270	8	31	4,000	620	200	98
PHC F4 (> C ₃₄)	180	260	460	<5	320	12	30	<5	170	<5	160	<5	<5	940	250	110	65

Notes:

All Concentrations in mg/kg.

1. Canadian Council of Ministers of the Environment (CCME) - Canadian Soil Quality Guidelines (SQGs) for the Protection of Environmental and Human Health for BTEX (vapour inhalation guideline for benzene and eco soil contact guideline for toluene, ethylbenzene, and xylenes)
2. Canadian Council of Ministers of the Environment (CCME) Canada Wide Standards for Petroleum Hydrocarbons (PHCs) in Soil (2001), Criteria for a commercial land use with fine grained surface soils. Concentrations that are **Bold** exceed the guideline.

Golder Associates

24/09/2008

08-1380-0004

Table 1 - C
Summary of Soil Chemistry Analyses - Petroleum Hydrocarbons
Consolidate Fast Frate
Winnipeg, Manitoba

Sample	TP33	TP34	TP35	TP36	TP37	TP38	TP39	TP40	TP41	TP42	TP43	TP44	TP45
Sample Collection Date	1/23/08	1/23/08	1/23/08	1/23/08	1/23/08	1/24/08	1/24/08	1/24/08	1/24/08	1/24/08	1/24/08	1/24/08	1/24/08
Parameter/Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Petroleum Hydrocarbons													
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes (total)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
PHC F1 (C ₆ -C ₁₀)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5
PHC F2 (C ₁₀ -C ₁₆)	19	5	7	11	12	20	28	200	200	2,300	610	17	8
PHC F3 (C ₁₆ -C ₃₄)	440	400	280	300	560	580	1,800	6,600	4,300	28,000	6,200	330	300
PHC F4 (> C ₃₄)	140	110	120	120	280	190	410	1,700	1,300	10,000	2,200	150	440

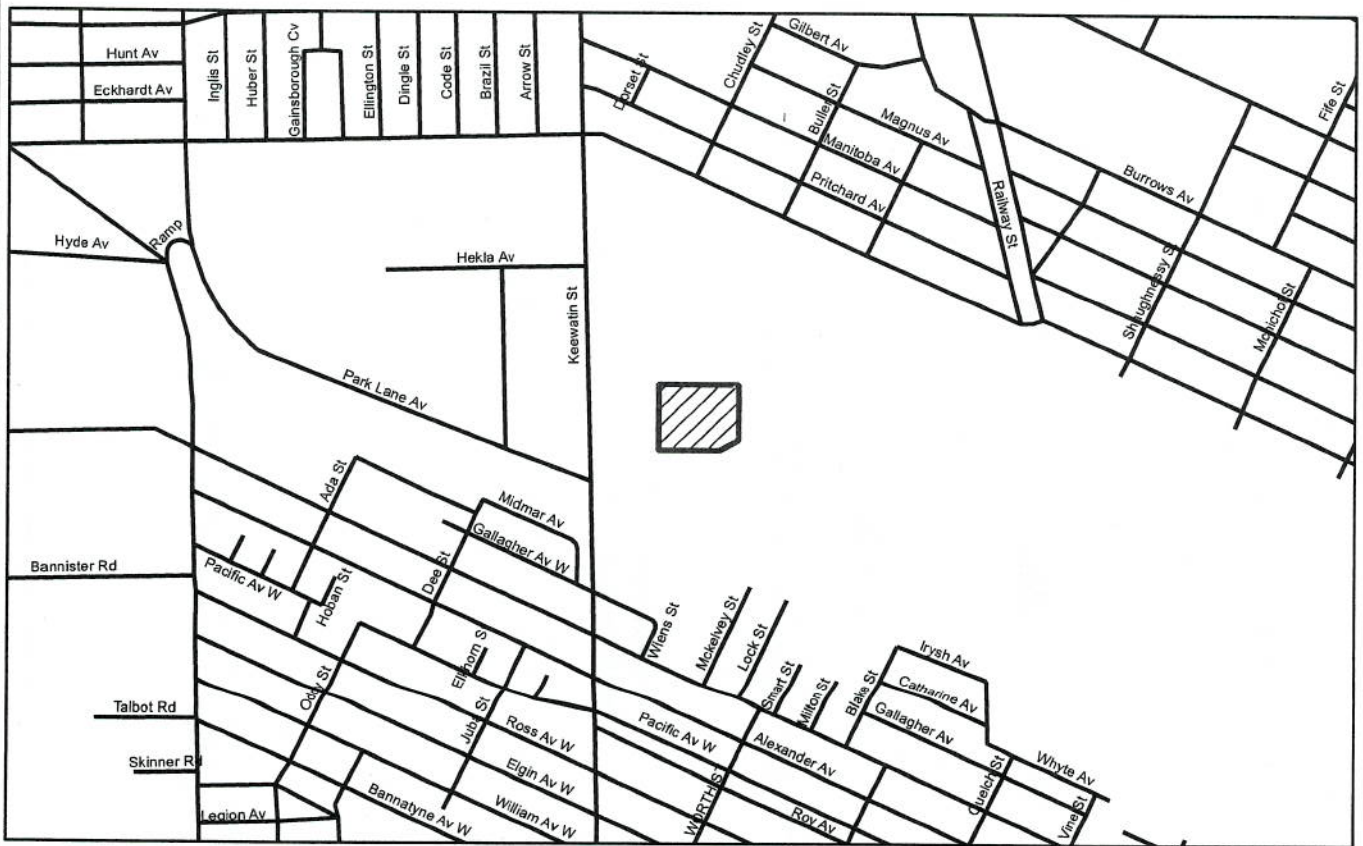
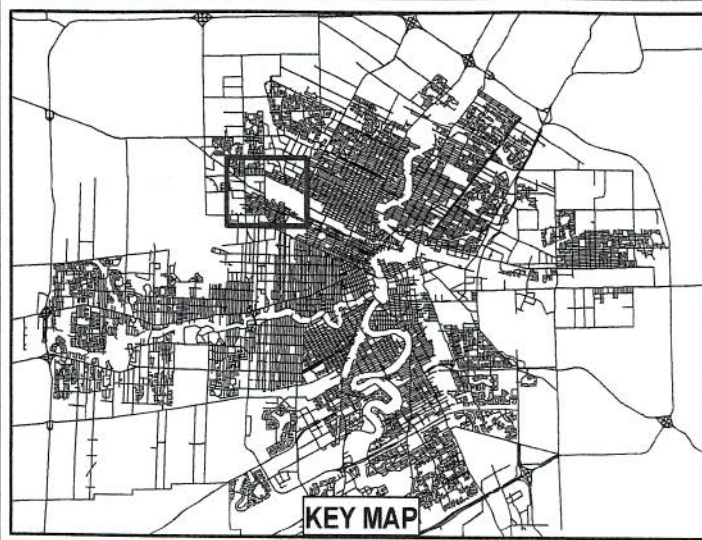
Notes:

All Concentrations in mg/kg.

1. Canadian Council of Ministers of the Environment (CCME) - Canadian Soil Quality Guidelines (SQGs) for the Protection of Environmental and Human Health for BTEX (vapour inhalation guideline for benzene and eco soil contact guideline for toluene, ethylbenzene, and xylenes)
2. Canadian Council of Ministers of the Environment (CCME) Canada Wide Standards for Petroleum Hydrocarbons (PHCs) in Soil (2001), Criteria for a commercial land use with fine grained surface soils. Concentrations that are **Bold** exceed the guideline.

Golder Associates

FIGURES



300 0 300
SCALE 1:15,000 METRES

Legend



PROJECT
CONSOLIDATED FASTRATE
TEST PIT INVESTIGATION
WINNIPEG, MANITOBA

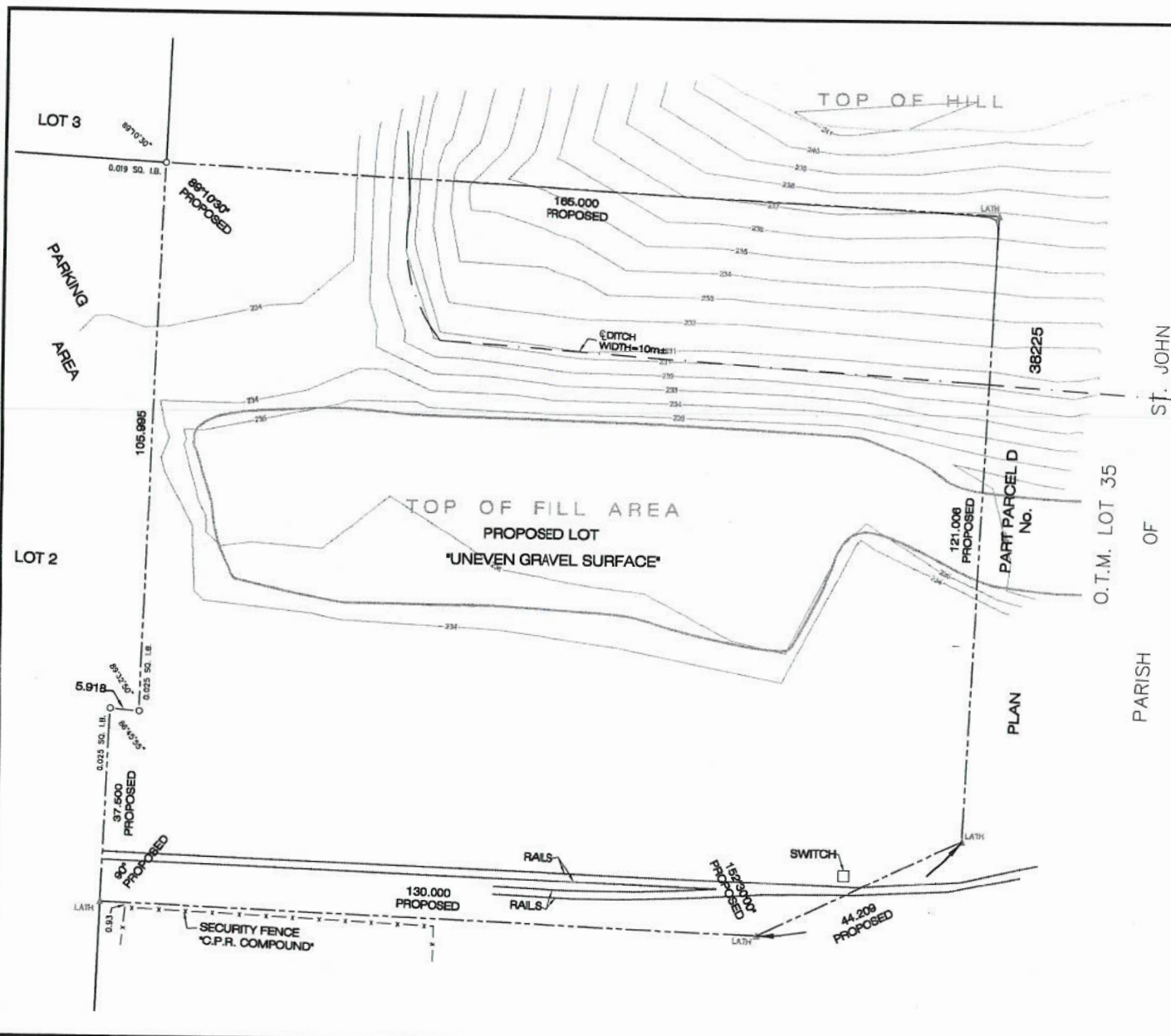
TITLE
SITE LOCATION PLAN



PROJECT	08-1380-0004	FILE No.	
DESIGN		SCALE	REV. 0
GIS	AND	04/02/08	
CHECK	CB	29/09/08	
REVIEW	KB	29/09/08	

FIGURE: 1

C:\2008\1380\08-1380-0004 Consolidated Fastfrigate\CAO\ Drawing file: 08-1380-0004 Site Plan.dwg Sep 28, 2008 - 4:55pm



Legend

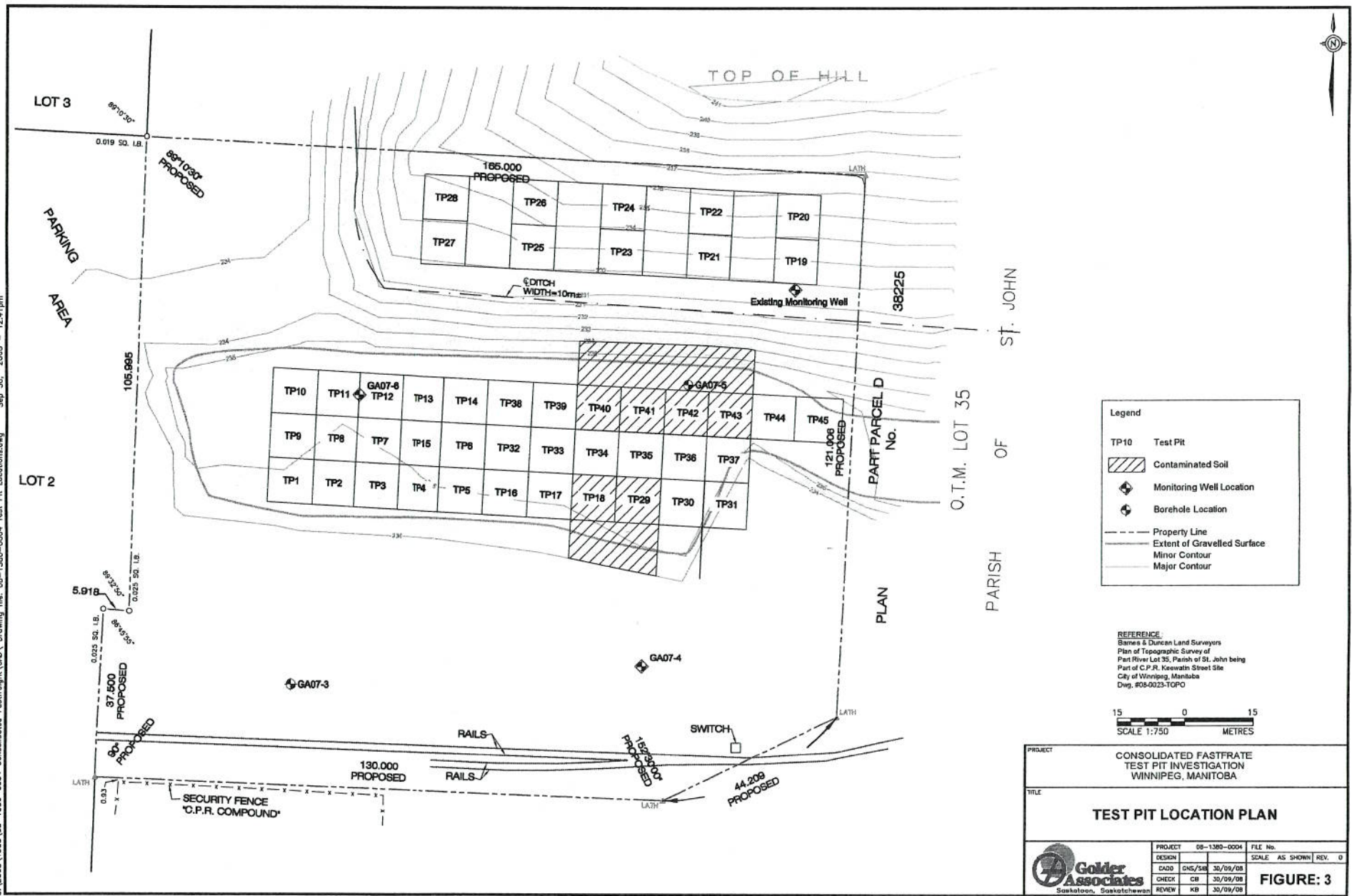
- Property Line
- Extent of Gravelled Surface
- Minor Contour
- Major Contour

REFERENCE:
Barnes & Duncan Land Surveys
Plan of Topographic Survey of
Part River Lot 35, Parish of St. John being
Part of C.P.R. Keewatin Street Site
City of Winnipeg, Manitoba
Dwg. #08-0023-TOPO

SCALE 1:750 METRES

PROJECT	CONSOLIDATED FASTFRATE TEST PIT INVESTIGATION WINNIPEG, MANITOBA		
TITLE	SITE PLAN		
 Golder Associates Saskatoon, Saskatchewan	PROJECT	08-1380-0004	FILE No.
	DESIGN	CAD	13/02/08
	CHECK	CB	29/09/08
	REVIEW	KB	29/09/08
		SCALE	AS SHOWN REV. 0
FIGURE: 2			

G:\2008\1380\08-1380-0004 Consolidated Fastfreight CAD Drawing file: DB-1380-0004 Test Pit Locations.dwg Sep 30, 2008 - 12:41pm



APPENDIX I
RECORD OF TEST PIT LOGS

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP1

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m							
0		GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00								
1	CAT 320BL			1							
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.40								
2		End of Test Pit = 2.0m	2.00	2							
3											
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP2

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k_h cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	WATER CONTENT PERCENT			
								Wp	Wi		
0	CAT 320BL	GROUND SURFACE		0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)									
1											
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.20	3							
2											
		End of Test Pit = 2.05m		2.05							
3											
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP3

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		4 8 12 16	10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ———— W ———— Wi			
0	CAT 320BL	GROUND SURFACE									
		Frozen, grey, silt, some gravel and sand, trace metal, glass, wood and bricks (FILL)									
1											
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood, railway tie (FILL)	1.20	5							
2				6							
		End of Test Pit = 2.1m	2.10								
3											
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS GPJ GLDR CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP4

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ———— W ———— Wi		
0	CAT 320BL	GROUND SURFACE		0.00						
		Frozen, grey, silt, some gravel and sand, trace metal, glass, wood and bricks (FILL)								
1										
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.20						
2										
		End of Test Pit = 2.1m		2.10						
3										
4										
5										

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP5

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m	WATER CONTENT PERCENT Wp ———— W ———— Wi					
0	CAT 320BL	GROUND SURFACE	0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		9						
1										
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.40							
2										
		Stiff, dry to moist, light brown, SILTY CLAY	2.10	10						
		End of Test Pit = 2.3m	2.30							
3										
4										
5										

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT: 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 08/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP6

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ———— W ———— Wl			
0	CAT 320BL	GROUND SURFACE		0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)									
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)									
2		End of Test Pit = 1.9m		1.90							
3											
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP7

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		4 8 12 16	10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	Wp ———— W ———— Wi			
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00								
			13	⊕							
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	0.90								
			14	⊕							
2											
				15	⊕						
3		End of Test Pit = 2.6m	2.60								
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP8

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		WATER CONTENT PERCENT Wp — W — Wi	ADDITIONAL LAB. TESTING	
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00					
1									
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.20					
2									
		Stiff, dry to moist, light brown, SILTY CLAY		2.60					
3		End of Test Pit = 2.8m		2.80					
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP9

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB TESTING	WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE	4	8	12	16			10 ⁻⁶
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00									
1												
2		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.60									
3		Stiff, dry to moist, light brown, SILTY CLAY	2.50	21								
3		End of Test Pit = 2.9m	2.90									
4												
5												

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 08/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP10

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER CONTENT PERCENT Wp — W — Wi	ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		BLOWS/0.3m	10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³			
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00							
1				22							
2				23							
3				24							
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.40							
		23									
		Stiff, dry to moist, light brown, SILTY CLAY		2.50							
		24									
		End of Test Pit = 3.1m		3.10							
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR. CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP11

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m	4 8 12 16	10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶ 10 ⁻⁷	WATER CONTENT PERCENT Wp ———— W ———— Wi			
0	CAT 320BL	GROUND SURFACE	0.00								
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)									
1											
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.00								
2											
		Stiff, dry to moist, light brown, SILTY CLAY	2.40								
3		End of Test Pit = 2.9m	2.90								
4											
5											

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP12

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m		10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶ 10 ⁻⁷	WATER CONTENT PERCENT Wp ———— W ———— Wi	
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00						
				28	⊕				
1									
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.30						
2				29	⊕				
		Stiff, dry to moist, light brown, SILTY CLAY	2.50						
				30	⊕				
3		End of Test Pit = 3.0m	3.00						
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP13

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m	WATER CONTENT PERCENT Wp — W — Wi					
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00							
			31							
1										
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.40							
2			32							
		Stiff, dry to moist, light brown, SILTY CLAY	2.60							
3			33							
		End of Test Pit = 3.2m	3.20							
4										
5										

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS GPJ GLDR CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP14

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		WATER CONTENT PERCENT Wp ———— W ———— Wi	ADDITIONAL LAB. TESTING	
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00					
1									
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.15					
2									
		Stiff, dry to moist, light brown, SILTY CLAY		2.20					
		End of Test Pit = 2.4m		2.40					
3									
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP15

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB TESTING	WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE	4	8	12	16			10 ⁻⁶
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00									
			37	⊕								
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood, piece of railway track (FILL)	1.00									
			38	⊕								
2		Stiff, dry to moist, light brown, SILTY CLAY	2.20									
			39	⊕								
		End of Test Pit = 2.6m	2.60									
3												
4												
5												

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS GPJ GLDR CAN GDT 08/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP16

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/18/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm) 4 8 12 16 ppm	HYDRAULIC CONDUCTIVITY, k, cm/s 10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp — W — WI 10 20 30 40	ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE					
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00							
			40							
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.10							
			41							
2		Stiff, dry to moist, light brown, SILTY CLAY	2.20							
			42							
3		End of Test Pit = 2.7m	2.70							
4										
5										

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP17

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m	4 8 12 16 ppm	10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³ Wp ——— W ——— WI				
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00								
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.20	43	⊕						
2		Stiff, dry to moist, light brown, SILTY CLAY	2.30	44	⊕						
3		End of Test Pit = 2.7m	2.70	45	⊕						
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITTS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP18

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER		TYPE	BLOWS/0.3m			WATER CONTENT PERCENT	
											Wp	Wi
0		GROUND SURFACE		0.00								
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)										
1												
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.20	46							
2												
					47							
3		Stiff, dry to moist, light brown, SILTY CLAY		2.60								
					48							
3		End of Test Pit = 3.1m		3.10								
4												
5												

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP19

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT W _p — W — W _L	
0		GROUND SURFACE							
		ORGANICS	0.00						
		Firm, dry, black, silty clay, some gravel, trace concrete, wood and cinders (FILL)	0.10						
1				49					
2	CAT 320BL	Stiff, dry to moist, grey, SILTY CLAY	1.80	50					
3				51					
4		End of Test Pit = 3.7m	3.70						
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS GPJ GLDR CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP20

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		BLOWS/0.3m	10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	
0		GROUND SURFACE		0.00					
		ORGANICS		0.10					
		Firm, dry, black, silty clay, some gravel, trace concrete, wood and cinders (FILL)							
1									
				52					
		Compact, dry, brown, silt, some sand (FILL)		1.60					
		Stiff, dry to moist, grey, SILTY CLAY		1.70					
2									
				53					
				54					
3									
		End of Test Pit = 3.1m		3.10					
4									
5									

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP21

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m	WATER CONTENT PERCENT Wp ——— W ——— WI					
0		GROUND SURFACE								
		ORGANICS	0.00							
		Firm, dry, black, silty clay, some gravel, trace concrete, wood and cinders (FILL)	0.10							
1										
		Compact, dry, brown, silt, some sand (FILL)	1.10	55						
		Stiff, dry to moist, grey, SILTY CLAY	1.40							
2										
				56						
3										
				57						
		End of Test Pit = 3.3m	3.30							
4										
5										

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP22

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ———— W ———— Wi	
0	CAT 320BL	GROUND SURFACE							
		ORGANICS	0.00						
		Firm, dry, black, silty clay, some gravel, trace concrete, wood and cinders (FILL)	0.10						
1		Compact, dry, brown, silt, some sand (FILL)	1.00	58					
		Stiff, dry to moist, grey, SILTY CLAY	1.50	59					
2									
3		End of Test Pit = 3.0m	3.00						
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP23

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	ppm		WATER CONTENT PERCENT			
							4	8	12			16
0	CAT 320BL	GROUND SURFACE		0.00								
		ORGANICS		0.10								
		Firm, dry, black, silty clay, some gravel, trace concrete and wood (FILL)										
1												
		Firm, dry, black, silty clay, some gravel, trace concrete, wood and cinders (FILL)		1.10	61							
		Stiff, dry to moist, grey, SILTY CLAY		1.60	62							
2												
3					63							
		End of Test Pit = 3.1m		3.10								
4												
5												

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP24

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE		BLOWS/0.3m	10 ⁻⁶		
0	CAT 320BL	GROUND SURFACE								
		ORGANICS	0.00							
		Firm, dry, grey, silt, some gravel and sand, trace concrete and wood (FILL)	0.10							
			64							
1		Stiff, dry to moist, grey, SILTY CLAY	0.90							
				65						
2				66						
3		End of Test Pit = 2.8m	2.80							
4										
5										

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP25

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m		WATER CONTENT PERCENT			
						4	8	12	16		
0	CAT 320BL	GROUND SURFACE	0.00								
		ORGANICS	0.10								
		Firm, dry, grey, silt, some gravel and sand, trace concrete and wood (FILL)									
1				67							
		Stiff, dry to moist, grey, SILTY CLAY	1.20	68							
2											
				69							
3		End of Test Pit = 2.8m	2.80								
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP26

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k_f cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ———— W ———— Wi	
0	CAT 320BL	GROUND SURFACE							
		ORGANICS	0.00						
		Firm, dry, grey, silt, some gravel and sand, trace concrete and wood (FILL)	0.10						
1				70					
				71					
2		Stiff, dry to moist, grey, SILTY CLAY	1.90						
				72					
3		End of Test Pit = 3.0m	3.00						
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP27

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE	BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT W _p — W — W _i		
0	CAT 320BL	GROUND SURFACE	0.00							
		ORGANICS	0.10							
		Firm, dry, grey, silt, some gravel and sand, trace concrete and wood (FILL)								
1				73						
		Stiff, dry to moist, grey, SILTY CLAY	1.50							
				74						
2										
3				75						
		End of Test Pit = 3.2m	3.20							
4										
5										

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP28

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m	WATER CONTENT PERCENT Wp — W — Wi				
0	CAT 300BL	GROUND SURFACE	0.00						
		ORGANICS	0.10						
		Firm, dry, grey, silt, some gravel and sand, trace concrete and wood (FILL)							
1				76					
		Stiff, dry to moist, grey, SILTY CLAY	1.60	77					
2									
3				78					
		End of Test Pit = 3.2m	3.20						
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT: 08-1380-0004 TEST PITTS.GPJ GLDR CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP29

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m	WATER CONTENT PERCENT Wp ———— W ———— WI					
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00							
1										
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.20							
2		Stiff, dry to moist, light brown, SILTY CLAY	1.90							
		End of Test Pit = 2.4m	2.40							
3										
4										
5										

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP30

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ——— W ——— Wi	
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00					
				82					
1									
				1.10					
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)							
					83				
2									
		Stiff, dry to moist, light brown, SILTY CLAY							
					84				
3		End of Test Pit = 2.8m							
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP31

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m	ppm		WATER CONTENT PERCENT				
						4	8	12	16			10 ⁻⁶
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00								
1				85								
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.10								
				86								
2												
		Stiff, dry to moist, light brown, SILTY CLAY		2.20								
				87								
3		End of Test Pit = 2.7m		2.70								
4												
5												

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP32

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		WATER CONTENT PERCENT Wp ———— W ———— WI	ADDITIONAL LAB. TESTING	
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00					
				88					
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.00					
				89					
2									
3		Stiff, dry to moist, light brown, SILTY CLAY		2.80					
				90					
3		End of Test Pit = 3.0m		3.00					
4									
5									

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP33

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	WATER CONTENT PERCENT			
								Wp	Wi		
0	CAT 320BL	GROUND SURFACE		0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL.)									
1											
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL.)									
2											
		Stiff, dry to moist, light brown, SILTY CLAY		2.50							
3		End of Test Pit = 2.9m		2.90							
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP34

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		10 ⁻⁸ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³	WATER CONTENT PERCENT Wp ——— W ——— WI		
0	CAT 320BL	GROUND SURFACE		0.00						
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)								
1										
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.10						
2										
		Stiff, dry to moist, light brown, SILTY CLAY		2.60						
				2.90						
3		End of Test Pit = 2.9m								
4										
5										

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP35

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		STRATA PLOT	SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER CONTENT PERCENT Wp ——— W ——— Wi	ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	ELEV. DEPTH (m)		NUMBER	TYPE		BLOWS/0.3m	10 ⁻⁶			
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00									
				97								
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.00									
				98								
2												
		Stiff, dry to moist, light brown, SILTY CLAY	2.70									
				99								
3		End of Test Pit = 3.0m	3.00									
4												
5												

TEST PIT: 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP36

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		WATER CONTENT PERCENT Wp ———— W ———— Wi	ADDITIONAL LAB. TESTING	
0	CAT 320BL	GROUND SURFACE		0.00					
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)							
1									
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		0.80					
2				101					
		Stiff, dry to moist, light brown, SILTY CLAY		2.50					
		End of Test Pit = 2.7m		2.70					
3									
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP37

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/23/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	WATER CONTENT PERCENT			
								Wp	Wi		
0		GROUND SURFACE		0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)									
1				103							
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.10							
				104							
2											
		Stiff, dry to moist, light brown, SILTY CLAY		2.50							
				105							
3		End of Test Pit = 2.8m		2.80							
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP38

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		WATER CONTENT PERCENT Wp ———— W ———— Wi	ADDITIONAL LAB. TESTING		
0	CAT 320BL	GROUND SURFACE		0.00						
1										
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.20						
2										
		Stiff, dry to moist, light brown, SILTY CLAY		2.30						
3		End of Test Pit = 2.9m		2.90						
4										
5										

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

[illegible]

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR_CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP40

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE BLOWS/0.3m		10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶ 10 ⁻⁷	WATER CONTENT PERCENT Wp ———— W ———— WI			
0	CAT 320BL	GROUND SURFACE		0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)									
1											
		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		1.00							
2											
	Stiff, dry to moist, light brown, SILTY CLAY	2.50									
3		End of Test Pit = 3.0m		3.00							
4											
5											

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP41

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k, cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	WATER CONTENT PERCENT				
							W _p	W _L			
0		GROUND SURFACE									
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)	0.00	115							
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)	1.00	116							
2		Stiff, dry to moist, light brown, SILTY CLAY	2.60	117							
3		End of Test Pit = 3.0m	3.00								
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.CDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP42

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER CONTENT PERCENT Wp — W — Wi	ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		BLOWS/0.3m	10 ⁻⁶			
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00							
				118							
1											
				1.30							
2		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)									
		119									
		2.70									
3		Stiff, dry to moist, light brown, SILTY CLAY		120							
		End of Test Pit = 3.0m		3.00							
4											
5											

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP44

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)	HYDRAULIC CONDUCTIVITY, k, cm/s		WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER TYPE		Wp	Wi	
0	CAT 320BL	GROUND SURFACE Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)		0.00					
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		0.70	124				
2					125				
		Stiff, dry to moist, light brown, SILTY CLAY		2.50	126				
3		End of Test Pit = 2.8m		2.80					
4									
5									

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN.GDT 09/29/08

PROJECT: 08-1380-0004

RECORD OF TEST PIT: TP45

SHEET 1 OF 1

LOCATION:

EXCAVATION DATE: 01/24/08

DATUM:

DEPTH SCALE METRES	EXCAVATION METHOD	SOIL PROFILE		SAMPLES		PID (ppm)		HYDRAULIC CONDUCTIVITY, k_v cm/s		ADDITIONAL LAB. TESTING	WATER OBSERVATIONS ADDITIONAL NOTES
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	WATER CONTENT PERCENT			
								Wp	Wi		
0		GROUND SURFACE		0.00							
		Frozen, grey, silt, some gravel and sand, trace metal, glass and wood (FILL)									
				127							
1		Firm, dry, black, silty clay, some gravel, trace metal, glass and wood (FILL)		0.80							
				128							
2											
		Stiff, dry to moist, light brown, SILTY CLAY		2.30							
				129							
		End of Test Pit = 2.6m		2.60							
3											
4											
5											

DEPTH SCALE

1 : 25



LOGGED: C.B.

CHECKED: K.B.

TEST PIT 08-1380-0004 TEST PITS.GPJ GLDR CAN GDT 09/29/08

APPENDIX II
LABORATORY CERTIFICATES OF ANALYSIS



Environmental Division

ANALYTICAL REPORT

GOLDER ASSOCIATES LTD

ATTN: CAMERON BROWN

Unit 6 - 5 Scurfield Blvd

WINNIPEG MB R3Y 1G3

Reported On: 04-FEB-08 11:52 AM

Lab Work Order #: **L597027**

Date Received: **25-JAN-08**

Project P.O. #: 08-1380-0004

Job Reference: 08-1380-0004

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

APPROVED BY: _____

GERRY VERA

Project 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.



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-1
Sampled By: CB
Product Name: TP 1
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	7 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	69 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	34 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	110 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Charles LeBlond
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

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

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-1
Sampled By: CB
Product Name: TP 1
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	15 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlanc
WANDA YOUNG

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Analysis performed under Canadian and/or Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are stored by ALS Laboratory Group, Canada.

ALS Laboratory Group has an ISO 9001:2000 program where all analytical data reported is only after using approved reference procedures followed by check and review by technicians and quality assurance personnel. However, data and review are obtained from original measurements and may differ as provided by ALS Laboratory Group as per an ability for the user to interpret data in this results.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-2
Sampled By: CB
Product Name: TP 2
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	40 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	340 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	110 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	490 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian and/or Municipal and Provincial Regulations, as defined by Health Canada. Raw data and sample reports are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and the current legislation, ALS Laboratory Group assumes no liability for the general interpretation of the results.



Certificate of Analysis

Lab Sample Number: L597027-2
Sampled By: CB
Product Name: TP 2
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	21 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG



Certificate of Analysis

Lab Sample Number: **L597027-3**
Sampled By: **CB**
Product Name: **TP 3**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	21 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	460 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	130 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	610 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: *Wanda Young*
WANDA YOUNG



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-3
Sampled By: CB
Product Name: TP 3
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	23 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Wanda Young
WANDA YOUNG



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-4
Sampled By: CB
Product Name: TP 4
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	25 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	1100 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	760 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	1900 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analyses conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is reviewed using approved referenced procedures followed by check 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-4
Sampled By: CB
Product Name: TP 4
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	15 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under the Canadian Ministry of Health Policy Regulations as outlined by Health Canada. Raw data and sample amounts are subject to ALS Laboratory Group, Canada.

ALS Laboratory Group has an ISO 9001 program and all data generated is reviewed, signed, approved, referenced, checked, followed by quality control review by senior management and quality assurance personnel. However, neither results are obtained from chemical measurements and test results are provided. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-5
Sampled By: CB
Product Name: TP 5
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	17 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	720 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	220 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	960 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations, as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is reviewed using approved referenced procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from instrumental measurements and thus, subject to uncertainty, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-5
Sampled By: CB
Product Name: TP 5
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	15 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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*Analysis is conducted under Canadian Food Inspection Agency Regulations as defined by Health Canada. Raw data and chromatograms are reviewed by ALS Laboratory Group, Canada.

ALS Laboratory Group uses an external QA/QC program where all analytical data are independently using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from an external means, accuracy and data cannot be guaranteed. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.90



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-6
Sampled By: CB
Product Name: TP 6
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	13 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	1200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	860 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	2100 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Wanda Young
WANDA YOUNG

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Analysis conducted under Canadian Good Manufacturing Practice Regulations, as defined by Health Canada. Raw data and chromatograms are retained by ALS Laboratory Group, Canada.

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

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-6
Sampled By: CB
Product Name: TP 6
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	20 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Wanda Young
WANDA YOUNG

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Analyses performed under the Canadian Food Inspection Agency's Food Inspection Regulations, as defined by Health Canada. Raw data and chain of custody are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group, an American Company, is proud where all analytical data reported to our clients are generated and reference procedures followed to check and review by senior managers and quality assurance personnel. However, since the results are obtained from analytical measurement and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-7**
Sampled By: **CB**
Product Name: **TP 7**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	38 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	770 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	280 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	1100 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is reviewed using approved reference procedures followed by check 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-7
Sampled By: CB
Product Name: TP 7
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Analyses conducted under the Canadian Standard Methods for the Determination of Metals in Environmental Samples as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive Quality Management System where all analytical data reported is analyzed using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from instrumental measurements, and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-8
Sampled By: CB
Product Name: TP8
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	150 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	69 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	220 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved referenced procedures followed by check 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.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-8
Sampled By: CB
Product Name: TP8
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LoPhone
WANDA YOUNG

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Analysis is conducted under Canadian and/or Mandatory Practice Regulations as defined by Health Canada. Raw data and calculations are archived by ALS Laboratory Group, Canada.

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

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-9
Sampled By: CB
Product Name: TP 9
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	12 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	410 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	190 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	610 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group - Canada.

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



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-9
Sampled By: CB
Product Name: TP 9
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	14 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and calculations are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analyses are reported, analyzed using approved referenced procedures followed by check and review 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.

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Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-10
Sampled By: CB
Product Name: TP 10
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	25 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	500 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	180 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	710 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-10**
Sampled By: **CB**
Product Name: **TP 10**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	21 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Replies to, and related to, Canadian Food Inspection Agency Regulations, as defined by Health Canada. For details and information, please refer to the ALS Laboratory Group website.

ALS Laboratory Group has an ISO 9001:2008 program where all data and test results reported are verified using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus subject to variability, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-11
Sampled By: CB
Product Name: TP 11
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	18 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	690 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	240 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	950 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all sampling data reported is analyzed using approved referenced procedures followed by check 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.

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Certificate of Analysis

Lab Sample Number: L597027-11
Sampled By: CB
Product Name: TP 11
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	20 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlanc
WANDA YOUNG

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Analyses conducted using Canadian and Manufacturing Process Regulations as defined by the State of Canada. Test data and interpretations are approved by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is reviewed using approved reference procedures followed by check and recovery by tested analysts 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.

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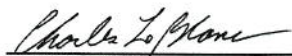


Certificate of Analysis

Lab Sample Number: **L597027-12**
Sampled By: **CB**
Product Name: **TP 12**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	280 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	96 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	380 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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*Analysis is conducted under Canadian Good Manufacturing Practices Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

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

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Certificate of Analysis

Lab Sample Number: L597027-12
Sampled By: CB
Product Name: TP 12
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	22 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Charles LeBlanc
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and interpretations are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all sampling data recorded is validated using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from on-site measurements and the sample is generated, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-13**
Sampled By: **CB**
Product Name: **TP 13**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	120 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	85 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	210 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical work performed is analyzed using approved referenced procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements, and there can be no duplicate, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-13
Sampled By: CB
Product Name: TP 13
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	19 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analyses conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are subject to ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus are of 2σ guaranteed, ALS Laboratory Group disclaims liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-14
Sampled By: CB
Product Name: TP 14
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	21 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	880 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	310 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	1200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data (i.e. chromatograms) are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check 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.



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-14
Sampled By: CB
Product Name: TP 14
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlanc
WANDA YOUNG

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Analysis is conducted under Canadian Food Inspection Agency Regulations as defined by Health Canada. Raw data and calculations are retained by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved reference materials followed by check 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.

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Certificate of Analysis

Lab Sample Number: **L597027-15**
Sampled By: **CB**
Product Name: **TP 15**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	8 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	190 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	110 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	310 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Food Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and this cannot be guaranteed, ALS Laboratory Group assumes no liability for the user's interpretation of the results.



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-15
Sampled By: CB
Product Name: TP 15
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	20 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlond
WANDA YOUNG

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Analysis is conducted under Canadian Food Monitoring Public Regulations by definition of Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Lincroft.

ALS Laboratory - Canada has an extensive L.A.O.C. program where all analytical data reported is generated using approved reference procedures followed by check and review by senior management and quality assurance personnel. Personnel provide the results and obtained from chemical measurements and thus, cannot be guaranteed. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev'd 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-16
Sampled By: CB
Product Name: TP 16
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	9 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	530 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	180 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	720 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Food and Medicaments Regulations, as defined by Health Canada. Raw data and chromatograms are retained by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check and review by senior management and quality assurance personnel. However, since the results are obtained from chemical measurements and thus subject to measurement, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-16
Sampled By: CB
Product Name: TP 16
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Coast Guard/Transportation Pipeline Regulations as defined by Health Canada. Raw data and chromatograms are collected by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check and recovery by independent operators and quality assurance personnel. Reported data and the results are collected from internal measurements and thus cannot be guaranteed. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-17
Sampled By: CB
Product Name: TP 17
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	26 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	700 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	260 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	990 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check 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 misinterpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-17
Sampled By: CB
Product Name: TP 17
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	15 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlanc
WANDA YOUNG

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Analysis is conducted under the Canadian Good Manufacturing Practices Regulations as defined by Health Canada. Raw data and calculations are subject to ALS Laboratory Group, Canada.

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

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-18
Sampled By: CB
Product Name: TP 18
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	29 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	28 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	560 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	2000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	460 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	3000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	0.28 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	0.07 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	0.31 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved reference procedures followed by check 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-18
Sampled By: CB
Product Name: TP 18
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX Xylenes	N/A	0.38 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlond
WANDA YOUNG

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Analysis is conducted under Canadian and Manufacturing Practice Regulations as required by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data generated is analyzed using approved reference procedures, followed by check 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-19**
Sampled By: **CB**
Product Name: **TP 19**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	28 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	28 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group Canada.

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

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-19
Sampled By: CB
Product Name: TP 19
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	25 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian and Manitoba Mining Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical methods utilized follow approved reference procedures followed by strict and rigorous by senior chemists and quality assurance personnel. However, since the results are derived from chemical measurements analytical accuracy is guaranteed. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-20
Sampled By: CB
Product Name: TP 20
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	13 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	410 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	320 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	740 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check and review 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.

Rev# 1.00

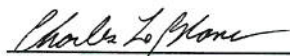


Certificate of Analysis

Lab Sample Number: L597027-20
Sampled By: CB
Product Name: TP 20
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	19 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analyses conducted under Canadian and Manitoba Drinking Water Regulations as required by Health Canada. Raw data and calculation sheets are approved by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data received is analyzed using approved reference procedures followed by check with results by senior managers and quality assurance personnel. Please note that the results are obtained from chemical measurements and data collection is provided by ALS Laboratory Group. Assurance availability for the use of the results of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-21**
Sampled By: **CB**
Product Name: **TP 21**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	6 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	12 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	18 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Food and Manufacturing Practice Regulations as defined by Health Canada. Raw data and chain of custody are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is validated using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements, and thus subject to measurement error, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



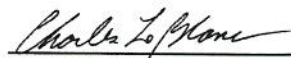
Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-21
Sampled By: CB
Product Name: TP 21
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	24 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are reviewed by ALS Laboratory Group, Canada.

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

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Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-22**
Sampled By: **CB**
Product Name: **TP 22**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	71 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	30 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	100 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-22
Sampled By: CB
Product Name: TP 22
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	24 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and observations are subject to ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, once data 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-23**
Sampled By: **CB**
Product Name: **TP 23**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	18 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	18 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations, as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

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

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-23
Sampled By: CB
Product Name: TP 23
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	29 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Laboratory Practice Regulations as defined by Health Canada. Raw data and chromatograms are reviewed by ALS Laboratory Group, Canada.

ALS Laboratory Group has a rigorous QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check and reviews by senior technicians and quality assurance personnel. However, since the results are obtained from chemical measurements and thus subject to quantified ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-24**
Sampled By: **CB**
Product Name: **TP 24**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	6 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	210 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	170 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	390 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations, as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check and reviews by senior technicians 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-24
Sampled By: CB
Product Name: TP 24
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	15 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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*Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by check point reviews by senior chemists 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-25
Sampled By: CB
Product Name: TP 25
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	20 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	20 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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*Reference is maximum under Canadian Food Inspection Agency (CFIA) Regulations as defined by Health Canada. Risk based and other parameters are defined by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program which is designed to ensure the accuracy and reliability of the results. The program includes the use of certified reference materials, duplicate samples, and blind samples. The results are reviewed and approved by the Quality Assurance Manager. The results are then reported to the client in a timely and accurate manner.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-25

Sampled By: CB

Product Name: TP 25

Client Lot Number: SOIL

Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	21 %	ii	JAP/30-JAN-08	Gravimetric: Oven Dried

Charles L. Young
WANDA YOUNG



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-26**
Sampled By: **CB**
Product Name: **TP 26**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	8 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	270 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	160 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	440 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted in accordance with the Manufacturing Process Requirements as detailed on the file. Certified Raw Data and Calculations are available from ALS Laboratory Group, Canada.

ALS Laboratory Group has a commitment to the highest standards of quality and integrity. We are continuously improving our procedures, methods, and equipment to ensure the highest quality of service. However, since the results are obtained from a sample of the material, and the method used, ALS Laboratory Group assumes no liability for the results obtained from the analysis.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-26
Sampled By: CB
Product Name: TP 26
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	19 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Charles LeBlanc
WANDA YOUNG

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ALS is a registered agent under the Canadian Environmental Protection Act, 1999, as amended, in the province of Manitoba. The 2000-2001 Environmental Protection Act, 1999, as amended, is hereby certified to be in compliance with the requirements of the Act.

ALS is a registered agent under the Canadian Environmental Protection Act, 1999, as amended, in the province of Manitoba. The 2000-2001 Environmental Protection Act, 1999, as amended, is hereby certified to be in compliance with the requirements of the Act. The results of the analysis are obtained from a number of independent laboratories and are not subject to any further review or approval by ALS.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-27
Sampled By: CB
Product Name: TP 27
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	8 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	8 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analyses conducted under the supervision of the Manager, Environmental Division. Results are subject to the quality control procedures of the ALS Laboratory Group. Canada.

ALS Laboratory Group has implemented a QA/QC program designed to ensure the accuracy and reliability of the data reported. This program includes the use of certified reference materials, duplicate samples, and blind samples. The results of the QA/QC program are subject to the quality control procedures of the ALS Laboratory Group. Canada.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-27
Sampled By: CB
Product Name: TP 27
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	23 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Analyses performed under Canadian Soil Monitoring Practice Regulations, published by Health Canada. Raw data and calculations are archived by ALS Laboratory Group Canada.

ALS Laboratory Group has a rigorous QA/QC program in place to ensure that our testing procedures are followed by staff and comply with client requirements and quality standards. However, due to the nature of the data, we cannot guarantee the accuracy and reliability of the results. ALS Laboratory Group assumes no liability for the use of the results of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-28
Sampled By: CB
Product Name: TP 28
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	31 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	31 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under standard Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive Quality System where all reporting data is checked and verified using approved reference procedures followed by audit and review by senior personnel and quality assurance personnel. However, only the results and data on the chemical tests, as shown on this report, are provided. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-28
Sampled By: CB
Product Name: TP 28
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	20 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Methionine is a chemical listed under Canadian Good Manufacturing Practice Regulations, as defined for Health Canada. Raw data and test results are subject to ALS Laboratory Group's Quality Assurance.

All data are subject to ALS's internal quality control procedures. ALS's internal quality control procedures are designed to ensure that the results are accurate and reliable. ALS's internal quality control procedures are designed to ensure that the results are accurate and reliable. ALS's internal quality control procedures are designed to ensure that the results are accurate and reliable.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-29
Sampled By: CB
Product Name: TP 29
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	38 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	4000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	940 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	5000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is completed under contract with the Client. The Client is responsible for the accuracy of the results. The Client is responsible for the accuracy of the results. The Client is responsible for the accuracy of the results.

ALS Laboratory Group assumes no liability for the use of the results of the analysis. The results are for information only and are not to be used for legal or regulatory purposes. The results are for information only and are not to be used for legal or regulatory purposes. The results are for information only and are not to be used for legal or regulatory purposes.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-29
Sampled By: CB
Product Name: TP 29
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	18 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Charles LeBlanc
WANDA YOUNG

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Analysis is conducted under the Canadian Food Inspection Agency's (CFIA) Health Canada's Food and Drug Regulations (FDR) and the Food and Drug Regulations (FDR) and the Food and Drug Regulations (FDR).

ALS Laboratory Group uses a rigorous quality control system of a sampling and reporting process, which includes a rigorous process followed by check and recheck by the analyst, and a rigorous process of recheck. The results are obtained from a rigorous process of recheck and a rigorous process of recheck. ALS Laboratory Group uses a rigorous quality control system of a sampling and reporting process, which includes a rigorous process followed by check and recheck by the analyst, and a rigorous process of recheck.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-30
Sampled By: CB
Product Name: TP 30
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	18 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	620 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	250 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	890 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analyses performed under contract for the client. The client is responsible for the accuracy of the data. The client is responsible for the accuracy of the data. The client is responsible for the accuracy of the data.

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Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-30
Sampled By: CB
Product Name: TP 30
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	18 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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ALS Laboratory Group is a member of the Campbell Brothers Limited family of companies. All services are provided by ALS Canada Limited, a subsidiary of ALS Laboratory Group. The information contained herein is for informational purposes only and should not be used for legal or regulatory compliance. The information contained herein is for informational purposes only and should not be used for legal or regulatory compliance. The information contained herein is for informational purposes only and should not be used for legal or regulatory compliance.

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Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-31
Sampled By: CB
Product Name: TP 31
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	110 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	310 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Wanda Young
WANDA YOUNG

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Analytical results are provided under the conditions of the test and are not to be used for legal purposes. The results are provided for information only and are not to be used for legal purposes.

ALS Laboratory Group is not responsible for the use of the results for any purpose other than the one for which they were provided. The results are provided for information only and are not to be used for legal purposes. The results are provided for information only and are not to be used for legal purposes.



Certificate of Analysis

Lab Sample Number: L597027-31
Sampled By: CB
Product Name: TP 31
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	22 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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This report is the property of ALS Laboratory Group. It is to be used for the purpose for which it was prepared and is not to be distributed outside the organization for which it was prepared. ALS Laboratory Group is not responsible for the use of this report for any other purpose.

ALS Laboratory Group has implemented a Quality Management System which all work is done in accordance with. This system includes procedures for the control of documents, records, and the use of statistical process control. The system also includes procedures for the control of nonconforming work and for the control of corrective action. The system is designed to ensure that the results of the analysis are accurate and reliable. ALS Laboratory Group assumes no responsibility for the use of this report for any other purpose.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-32
Sampled By: CB
Product Name: TP 32
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	98 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	65 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	160 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practices Requirements as defined by Health Canada. Raw data and chromatograms are retained by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved reference procedures followed by check and reviews by senior personnel and quality assurance personnel. However, since the results are obtained from analytical measurements and the inherent variability, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-32
Sampled By: CB
Product Name: TP 32
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	22 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: *Wanda Young*
WANDA YOUNG

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Analysis conducted under a written scope of testing. Results are subject to the Health Canada Policy on Accreditation and Certification of Laboratories (ALC Policy).

ALS Laboratory Group has an extensive "QA/QC" program where all analytical data produced is subject to rigorous internal and external review. All data and reviews are subject to internal and external audit. The results are obtained from individual clients' reports and are not subject to any other ALS Laboratory Group analysis or review for the purpose of external data review.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-33
Sampled By: CB
Product Name: TP 33
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	19 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	440 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	140 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	600 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Charles L. Young
WANDA YOUNG

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Analysis is conducted under Canadian Toxic Substances Management Regulations, administered by Health Canada. Flow data and chromatograms are as listed by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data are reviewed by trained and approved personnel. However, since this report is obtained from an on-site measurement, and the instrument is a portable ALS Laboratory Group, assuming no calibration for the on-site measurement of the results.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-33

Sampled By: CB

Product Name: TP 33

Client Lot Number: SOIL

Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	19 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Charles L. Young
WANDA YOUNG

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Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-34
Sampled By: CB
Product Name: TP34
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	400 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	110 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	520 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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samples to be tested under Canadian Government Regulations as determined by the Client. Raw data and chromatograms are retained by ALS Laboratory Group for 1 year.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is independently verified through a series of checks and reviews of test methods and quality assurance personnel. However, since the results are obtained from physical measurements and the accuracy is dependent on ALS Laboratory Group's ability to use or interpret data in the results.



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-34
Sampled By: CB
Product Name: TP34
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	24 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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*Analysis is completed under the plan (Good Manufacturing Practice Regulations as defined by Health Canada). Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical procedures comply with approved reference procedures followed by check and rechecks by second analysts and quality control personnel. However, only the results are reported from chemical measurements and this report is for information. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev'd 1-00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-35
Sampled By: CB
Product Name: TP 35
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	7 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	280 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	120 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	410 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data generated is reviewed and approved/rejected once found followed by check and review by senior managers and quality assurance personnel. However, since the results are generated from standard measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-35
Sampled By: CB
Product Name: TP 35
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	20 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Charles LeBlanc
WANDA YOUNG

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Nov 1 05



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-36
Sampled By: CB
Product Name: TP 36
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	11 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	300 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	120 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	430 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as determined by Health Canada. Raw data and chromatograms are retained by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is reviewed using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and tests conducted in the field, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-36
Sampled By: CB
Product Name: TP 36
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	22 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analysis is conducted under the Canadian Standards Association (CSA) Accredited Laboratory (ALC) Program. Raw data and calculations are subject to ALS Laboratory Group, Canada.

ALS Laboratory Group has implemented QA/QC procedures and all analyses are performed by trained and approved personnel. All procedures followed by ALS and approved by senior management and quality assurance personnel. However, since the results are obtained from a single measurement, the true value cannot be guaranteed. ALS Laboratory Group does not warrant the accuracy or reliability of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: **L597027-37**
Sampled By: **CB**
Product Name: **TP 37**
Client Lot Number: **SOIL**
Sample Received: **25-JAN-08**

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	12 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	560 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	280 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	850 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: *Wanda Young*
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has implemented a QMS program where all sample data is reported by analysts using approved reference procedures followed by check and review by senior chemists and quality assurance personnel. However, since the results are obtained from chemical analysis and are subject to variability, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.03



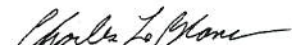
Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-37
Sampled By: CB
Product Name: TP 37
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	13 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and calculations are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus could be questioned, ALS Laboratory Group reserves the facility for the agency interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-38
Sampled By: CB
Product Name: TP 38
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	20 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	580 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	190 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	790 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Food Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group (Canada).

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is audited using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and third parties do not audit ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-38
Sampled By: CB
Product Name: TP 38
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	19 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlanc
WANDA YOUNG

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Analysis is conducted under Canadian (and/or applicable) Rules/Regulations as defined by Health Canada. Raw data and information are provided by ALS Laboratory Group, Canada.

ALS Laboratory Group (an ALS Limited Company) is a provider of analytical services. Results are reported as analyzed, unless otherwise indicated. Procedures followed, reagents and services are subject to change without notice. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-39
Sampled By: CB
Product Name: TP 39
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	28 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	1800 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	410 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	2200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are not subject to ALS Laboratory Group, Canada.

ALS Laboratory Group operates extensive QA/QC program where all analytical parameters are analyzed using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurement and the inherent variability of all analyses, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1-00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-39
Sampled By: CB
Product Name: TP 39
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4 CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Methods are conducted under Campbell Good Manufacturing Practice Requirements, as defined by Health Canada. Raw data and chromatograms are reviewed by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported are verified using approved referenced procedures followed by check and review by senior Technicians and Quality Assurance personnel. However, please be aware that all obtained mass chemical measurements are the result of an analysis and ALS Laboratory Group requires a facility to the proper interpretation of the results.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-40
Sampled By: CB
Product Name: TP 40
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	6600 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	1700 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	8500 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Food Inspection Agency Product Regulations as defined by Health Canada. Raw data and sample images are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has a rigorous QA/QC system where all analytical data received is checked, using approved reference procedures followed by second level reviews by senior managers and staff. All results are confirmed and the results are obtained from the final measurements and to be controlled by ALS Laboratory Group up to the point of delivery of the results.

Rev# 1.08



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-40
Sampled By: CB
Product Name: TP 40
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	13 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations, as defined by Health Canada. Raw data and chromatograms are retained by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program, where all analytical data reported is analyzed using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements, analytical errors are quantified. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Certificate of Analysis

Lab Sample Number: L597027-41
Sampled By: CB
Product Name: TP 41
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	4300 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	1300 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	5800 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analytical methods described in this report are Canadian Council of Ministers of the Environment (CCME) approved methods. Raw data and chromatograms are retained by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified using approved independent procedures followed by check and recheck by service managers and quality assurance personnel. However, because the results are obtained from chemical measurements and they can be affected by many factors, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-41
Sampled By: CB
Product Name: TP 41
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	19 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlanc
WANDA YOUNG



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-42
Sampled By: CB
Product Name: TP 42
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	2300 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	28000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	10000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	40000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by: Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Environmental Protection Regulations, as issued by Health Canada. Raw data and chromatograms are submitted to ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is reviewed using approved reference procedures followed by check and review by senior managers and quality assurance personnel. However, since the results are obtained from analytical procedures, and not directly from equipment, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev 6.1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-42
Sampled By: CB
Product Name: TP 42
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	17 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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Analyses were performed under the supervision of the Analyst. The results are reported as follows:
*Caveat: Raw data and interpretations are subject to ALS Laboratory Group review.

ALS Laboratory Group has an extensive QA/QC program. The results are reported as follows:
*Caveat: The results are obtained from internal and external quality control programs.
ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-43
Sampled By: CB
Product Name: TP 43
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	6 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	6 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	610 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	6200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	2200 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	9000 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:

Wanda Young
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is verified and approved/rejected, procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from instrumental measurements and then converted to a certified ALS Laboratory Group, assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-43
Sampled By: CB
Product Name: TP 43
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	22 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles LeBlond
WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and program output are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is developed using approved reference procedures followed by check and review by senior technicians 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.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-44
Sampled By: CB
Product Name: TP 44
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	17 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	330 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	150 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	500 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis is conducted under Canadian Good Manufacturing Practice Regulations as defined by Health Canada. Raw data and chromatograms are archived by ALS Laboratory Group, Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved reference procedures followed by check and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus subject to analytical error, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-44
Sampled By: CB
Product Name: TP 44
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	16 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by: Charles L. Young
WANDA YOUNG



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-45
Sampled By: CB
Product Name: TP 45
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME Total Hydrocarbons					
F1 (C6-C10)	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F1-BTEX	N/A	<5 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F2 (C10-C16)	N/A	8 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F3 (C16-C34)	N/A	300 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
F4 (C34-C50)	N/A	130 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Total Hydrocarbons (C6-C50)	N/A	440 mg/kg		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Chromatogram to baseline at nC50	N/A	YES		/01-FEB-08	CCME CWS-PHC Dec-2000 - Pub# 1310
CCME Total Extractable Hydrocarbons					
CCME BTEX					
Benzene	N/A	<0.005 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Toluene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Ethylbenzene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
o-Xylene	N/A	<0.01 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
Xylenes, m+p	N/A	<0.02 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310

Approved by:


WANDA YOUNG

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Analysis conducted under Canadian Good Manufacturing Practice Regulations, as defined by Health Canada. Raw data and chromatograms are subject to ALS Laboratory Group Canada.

At ALS Laboratory Group we have an extensive QA/QC program where all testing methods are approved using approved reference procedures followed by check and review by senior manager and quality assurance personnel. However, since the results are taken from chemical measurements and thus bear the qualification ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

Certificate of Analysis

Lab Sample Number: L597027-45
Sampled By: CB
Product Name: TP 45
Client Lot Number: SOIL
Sample Received: 25-JAN-08

Component	Client's Specification, Range	Test Result	Qualifier*	Analyst/Date	Method Reference
CCME BTEX + F1-F4					
CCME BTEX					
Xylenes	N/A	<0.03 mg/kg		JAP/29-JAN-08	CCME CWS-PHC Dec-2000 - Pub# 1310
% Moisture	N/A	12 %		JAP/30-JAN-08	Gravimetric: Oven Dried

Approved by:

Wanda Young
WANDA YOUNG

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*Analysis is conducted under Canadian Good Laboratory Practice Requirements as defined by Health Canada. Raw data and client information are owned by ALS Laboratory Group Canada.

ALS Laboratory Group has an extensive QA/QC program where all analytical data is checked, analyzed, reviewed, referenced, and approved followed by client and review by senior management and data management. Therefore, the results are obtained from chemical measurements and the client is responsible for the use of the results. ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Rev# 1.00



Environmental Division

08-1380-0004

Reference Information

Login Number: L597027

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
ETL-BTX,TVH-CCME-WP	Soil	CCME BTEX		CCME-TIER 1
ETL-TEH-CCME-WP	Soil	CCME Total Extractable Hydrocarbons		CCME-TIER 1
ETL-TVH,TEH-CCME-WP	Soil	CCME Total Hydrocarbons		CALCULATION

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

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

Chain of Custody numbers:

The last two letters of the above test code(s) 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA		



Environmental Division

08-1380-0004

Reference Information

Login Number: L597027

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. The Laboratory control limits are determined under column heading D.L.

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

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

< - Less than.

D.L. - The reporting limit.

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.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

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



ALS Laboratory Group
ANALYTICAL CONSULTING & TESTING SERVICES

25-1322 Highway Road East
Windsor, Ontario, Canada R2J 5T4
Tel: (204) 525-8720
Fax: (204) 525-8721
Toll Free: 1-800-407-7555

**CHAIN OF CUSTODY
ANALYTICAL REQUEST FORM**

W1917

DATE SUBMITTED: Jan 25/08 DATE RECEIVED: _____

PRECISION (CHECK ONE):
AS PER QUOTE # ☐
AS PER LIST PRICE: ☐

ANALYST REQUESTED:

LAB USE ONLY

BTX TVH TEH-CC

SAMPLE RECEIVED (Y OR N)
ANALYST CHECKED (Y OR N)

LAB SAMPLE NO.

1597027

SAMPLE ID	SAMPLED BY	DATE / TIME SAMPLED	SAMPLE TYPE												
TP13	CUB	Jan 18/08	Soil												
TP14															
TP15															
TP16															
TP17															
TP18															
TP19															
TP20															
TP21															
TP22															
TP23															
TP24															

NOTES & CONDITIONS:
1. Quote number shall be provided to ensure proper pricing.

2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the name of the hazard, as well as a contact name and phone number. The SDS can be found for further information.

3. ALS's liability limited to cost of analysis.

NOTE: Failure to properly complete all portions of this form may delay analysis.

NO. SAMPLES SUBMITTED: 12
NO. BOTTLES/SAMPLES: 12

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
			KC		
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

SAMPLE CONDITION UPON RECEIPT: ☐ ACCEPTABLE ☐ NON ACCEPTABLE

EMAIL: YES ☒ NO ☐

EMAIL ADDRESS: Content-brown@ygc.ca

PO. NO.: 08-1380-0004

JOS NO.: 08-1380-0004

OTHER SERVICES: ☐ ANALYST

OTHER SERVICES: ☐ ANALYST

WHITE - FRY OIL
GREEN - FRY OIL
YELLOW - OIL

WHITE - FRY OIL
GREEN - FRY OIL
YELLOW - OIL

NEW 007/1998



ALS Laboratory Group
ANALYTICAL REQUIRE FORM

12, 1400 Road East
Mississauga, Canada L4W 5T4

TEL: (905) 276-0770
FAX: (905) 276-0721

TEL: 1-800-407-7085

DATE SUBMITTED: Dec 25/08

DATE RECEIVED: _____

PRICING (CHECK ONE):
☐ AS PER QUOTE # _____
☐ AS PER LIST PRICE ☐

ANALYSIS REQUESTED:

LAB USE ONLY

SAMPLE RECEIVED BY: _____
SAMPLE BROKEN BY: _____

LAB SAMPLE NO. 597081

SAMPLE ID	SAMPLED BY	DATE / TIME SAMPLED	SAMPLE TYPE	PREPARED	NOTED
TP 25	C.B.	Jan 23/08	Soil		
TP 26					
TP 27					
TP 28					
TP 29					
TP 30					
TP 31					
TP 32					
TP 33					
TP 34					
TP 35					
TP 36					

NOTES & CONDITIONS:

1. Quote number must be provided to ensure proper pricing.

2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the nature of the hazard, as well as a contact name and phone number that the lab can contact for further information.

3. ALS's liability limited to cost of analysis.

NOTE: Failure to properly complete all portions of this form may delay analysis.

NO. SAMPLES SUBMITTED: 12
NO. BOTTLES/SAMPLES: 12

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME	KC	Jan 23/08
RELINQUISHED BY:	DATE	ALS LAB RECEIVED BY:	DATE
	TIME		9:05am

SAMPLE CONDITION UPON RECEIPT: ☒ ACCEPTABLE ☐ NON ACCEPTABLE

STATUS: YES ☒ NO ☐

SALE ADDRESS: Concord, Ontario

PO. NO. 05-1780-0004

JOB NO. 05-1780-0004

PROCESSED: ☐ COLD ☐ AMBIENT

OTHER COMMENTS: LABORATORY

WRITE: MAILED
DATE: Jan 23/08
BY: KC
ALS - Client Support
TEL: 905-276-0721
FAX: 905-276-0721

REV. OCT. 2004

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

12 - 14000 10000 Pond East
Windsor, Canada P2J 5T4

The McGraw-Hill Companies
For more information, call 1-800-393-6343
Toll-free 1-800-393-6343

DATE SUBMITTED:

Jan 25/08

DATE RECEIVED:

PHOTOGRAPH (CHECK ONE)

AS PER QUOTE #1 _____
AS PER LIST PRICE: ☐

ВТХ. ТУН. ТЕН

LAB USE ONLY

AWARDS REQUESTED:

SAMPLE RECEIVED

7027

STUDY SAMPLE NO.

SAMPLE ID	SAMPLE BY	DATE / TIME SAMPLED	SAMPLE TYPE	SAMPLE NO.
TP 37	CWB	Jan 23/08	S.1	37
TP 38		Jan 24/08		38
TP 39				39
TP 40				40
TP 41				41
TP 42				42
TP 43				43
TP 44				44
TP 45				45

NOTES & CONDITIONS

1. Check number must be provided to ensure proper pricing.

2. All hazardous materials submitted must be labeled to comply with HHS regulations. This must include the name of the hazard, as well as a contact name and phone number.

3. ALB's liability limited to cost of erasable

NOTES: Failure to properly complete all portions of this form may delay processing.

NO. SAMPLES SUBMITTED:

NO. BOTTLES/SAMPLES:

PRELIMINARY

DATE _____

RECEIVED BY

DATE _____

RELINQUISHED BY:

DATE _____

RECEIVED BY:

DATE _____

NAME: YES ☒ NO ☐

E-MAIL ADDRESS: luc@luc.com

FOI NO: 00-1286

JOB NO.: 008-1580

FROZEN — COLD — MOMENT:

EXAMPLE CONDITION UPON RECEIPT: ☒ ACCEPTABLE ☐ NON ACCEPTABLE

100

WHITE - This Copy
Contains - Final Report

**THE SMOKEY
MILE • Great Cigarette
Tasting • 100 Cigarettes**

NEW OUTLOOK