

SUMMARY OF SOIL ANALYTICAL RESULTS FOR HYDROCARBONS - FTA
CAMBRIDGE BAY AIRPORT

				COC-A158826							
Sample ID	Standard 1	Standard 2		FTA NW WALL SA1 1.0m	FTA NW WALL SA2 2.0m	FTA NW WALL SA2 2.0m (Field Dup - 1)	FTA NW FLOOR SA1 2.0m	3-09-4M 1.0m (this material was excavated - not a confirmatory sample)	3-09-4M 2.0m - Floor	FTA West Wall SA3 - 1.0m	FTA West Wall SA4 - 2.0m
Parameter	Collection Date	CCME CWS Commercial Ecological Soil Pathway Coarse Grained	CCME CSQG for Protection of Environmental Health Commercial Surface/Subsoil Coarse-Grained	Units	14-Aug-15	14-Aug-15	14-Aug-15	14-Aug-15	14-Aug-15	15-Aug-15	15-Aug-15
	Laboratory Job #				B570599	B570599	B570599	B570599	B570354	B570354	B570354
	Laboratory Report Date				4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15
	GPS Coordin				7666794.6	7666794.6	7666794.6	7666785.7	7666774.5	7666781.2	7666781.2
	dates - Northing										
	Easting				493560.1	493560.1	493560.1	493560.5	493565.2	493565.2	493565.2
Volatile Organic Compounds											
Benzene	-	180/360	mg/kg	<0.015	<0.008	<0.008	<0.015	3.7	0.5	<0.005	<0.005
Toluene	-	250/500	mg/kg	<0.02	<0.02	<0.02	<0.02	15	<0.02	<0.02	<0.02
Ethylbenzene	-	300/600	mg/kg	<0.01	<0.01	<0.01	<0.01	11	<0.01	<0.01	<0.01
Xylenes (total)	-	350/700	mg/kg	<0.04	<0.04	<0.04	<0.04	52	<0.04	<0.04	<0.04
Petroleum Hydrocarbons F1 to F4											
F1 (C6 to C10)	320	-	mg/kg	<12	<12	<12	<12	2600	<12	<12	<12
F1 (C6 to C10 minus BTEX)	nv	-	mg/kg	<12	<12	<12	<12	2500	<12	<12	<12
F2 (C10 to C16)	260	-	mg/kg	<10	<10	<10	<10	310	<10	<10	<10
F3 (C16 to C34)	1700	-	mg/kg	<50	<50	<50	<50	220	<50	<50	<50
F4 (C34 to C50)	3300	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50
Metals											
Lead	-	260	mg/kg	---	5.3	---	4.4	---	---	---	---

Notes:

< - not detectable, less than laboratory instrument detection limit

nv - no standard exists

Bold - value exceeds CCME Guideline

*Samples reported with detection limits above the CCME guidelines due to soil conditions

1 - Canada-Wide Standard for Petroleum Hydrocarbons in Soil, January 2008, Ecological Soil Contact, Commercial, Coarse-grained soils

2 - Canadian Environmental Quality Guidelines, CCME Soil Quality Guidelines for the Protection of Environmental and Human Health, 2004, Commercial, Coarse-Grained, surface soil (<1.5 m depth)/subsoil(>1.5 m depth), Benzene: 10⁻⁵ incremental risk

(1) Qualifying ion outside of acceptance criteria. Results are tentatively identified and potentially biased high.

SUMMARY OF SOIL ANALYTICAL RESULTS FOR HYDROCARBONS - FTA
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				COC - A158825					COC - A				
Sample ID	Standard 1	Standard 2		FTA West Wall SA5 - 1.0m (excavated)	FTA West Wall SA6 - 2.0m	FTA West Wall SA7 - 1.0m	FTA West Wall SA8 - 1.8m	FTA West Floor SA 3 - 1.8m	FTA North Wall SA9 - 1.0m	FTA North Wall SA10 - 2.0m	FTA North Wall SA11 - 1.0m	FTA North Wall SA12 - 2.0m	
Parameter	CCME CWS Ecological Soil Pathway	Commercial Coarse-Grained	CCME CSQG for Protection of Environmental Health Commercial Surface/Subsoil Coarse-Grained	Units	15-Aug-15	15-Aug-15	15-Aug-15	15-Aug-15	15-Aug-15	16-Aug-15	16-Aug-15	16-Aug-15	16-Aug-15
Collection Date					B570354	B570354	B570354	B570354	B570354	B570766	B570766	B570766	B570766
Laboratory Job #					4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	19-Sep-15	19-Sep-15	19-Sep-15	19-Sep-15
Laboratory Report Date					7666772.3	7666772.3	7666764.5	7666764.5	7666760.0	7666790.1	7666790.1	7666786.8	7666786.8
GPS Coordindates - Northing					493555.3	493555.3	493558.8	493558.8	493570.0	493569.3	493569.3	493578.4	493578.4
Easting													
Volatile Organic Compounds													
Benzene	-	180/360	mg/kg	0.011	<0.005	<0.005	0.015	<0.005	<0.005	0.012	0.011	<0.005	
Toluene	-	250/500	mg/kg	0.031	<0.02	<0.02	<0.02	0.024	0.059	0.1	0.1	<0.02	
Ethylbenzene	-	300/600	mg/kg	0.073	<0.01	0.1	<0.01	<0.01	0.018	0.049	0.047	<0.01	
Xylenes (total)	-	350/700	mg/kg	1.8	<0.04	0.3	<0.04	<0.04	0.09	0.23	0.23	<0.04	
Petroleum Hydrocarbons F1 to F4													
F1 (C6 to C10)	320	-	mg/kg	520	<12	27	<12	<12	<12	<12	<12	<12	<12
F1 (C6 to C10 minus BTEX)	nv	-	mg/kg	520	<12	26	<12	<12	<12	<12	<12	<12	<12
F2 (C10 to C16)	260	-	mg/kg	410	<10	39	<10	140	<10	<10	<10	<10	<10
F3 (C16 to C34)	1700	-	mg/kg	57	<50	53	<50	340	<50	<50	<50	<50	<50
F4 (C34 to C50)	3300	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Metals													
Lead	-	260	mg/kg	---	---	---	---	---	---	---	---	---	5.1

Notes:

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*Samples reported with detection limits above the CCME guidelines due to soil conditions

1 - Canada-Wide Standard for Petroleum Hydrocarbons in Soil, January 2008, Ecological Soil Contact, Commercial, Coarse-grained soils

2 - Canadian Environmental Quality Guidelines, CCME Soil Quality Guidelines for the Protection of Environmental and Human Health, 2004, Commercial, C

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SUMMARY OF SOIL ANALYTICAL RESULTS FOR HYDROCARBONS - FTA
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				158827				COC - A158831					
Sample ID	Standard 1		Standard 2		FTA North Floor SA4 - 2.0m	Field Dup. 3 North Floor SA4 2.0m	FTA South Floor SA5 - 2.0m	FTA West Wall SA6 - 2.0m	FTA North East Wall SA13 -1.0m	FTA North East Wall SA14 -1.7m	FTA East Floor SA6 -1.7m	FTA East Wall SA15m - 1.0m	FTA East Wall SA16m - 1.7m
Parameter	Collection Date	CCME CWS Commercial Ecological Soil Pathway Coarse-	CCME CSQG for Protection of Environmental Health Commercial Surface/Subsoil Coarse-Grained	Units	16-Aug-15	16-Aug-15	16-Aug-15	15-Aug-15	17-Aug-15	17-Aug-15	17-Aug-15	17-Aug-15	17-Aug-15
	Laboratory Job #				B570766	B570766	B570766	B570766	B571920	B571920	B571920	B571920	B571920
	Laboratory Report Date				19-Sep-15	19-Sep-15	19-Sep-15	19-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15
	GPS Coordindates - Northing				7666774.5	7666774.5	7666764.4	7666772.3	7666782.2	7666782.2	7666762.2	7666767.7	7666767.7
	Easting				493580.8	493580.8	493583.5	493555.3	493597.5	493597.5	493603.8	493610.2	493610.2
Volatile Organic Compounds													
Benzene		-	180/360	mg/kg	0.11	0.079 (1)	0.058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		-	250/500	mg/kg	0.77	0.52	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene		-	300/600	mg/kg	0.41	0.31	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes (total)		-	350/700	mg/kg	3.7	2.8	0.86	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Petroleum Hydrocarbons F1 to F4													
F1 (C6 to C10)		320	-	mg/kg	160	140	32	<12	<12	<12	<12	<12	<12
F1 (C6 to C10 minus BTEX)		nv	-	mg/kg	160	140	31	<12	<12	<12	<12	<12	<12
F2 (C10 to C16)		260	-	mg/kg	45	33	15	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)		1700	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)		3300	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50
Metals													
Lead		-	260	mg/kg	---	---	5.3	---	---	---	---	---	---

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*Samples reported with detection limits above the CCME guidelines due to soil conditions

1 - Canada-Wide Standard for Petroleum Hydrocarbons in Soil, January 2008, Ecological Soil Contact, Commercial, Coarse-grained soils

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				COC A159257 and A158830										
Sample ID	Standard 1	Standard 2		FTA South Wall SA24 - 1.7m	FTA South Wall SA22 - 1.7m	FTA South Wall SA23 - 1.0m	FTA South Wall SA21 - 1.0m	FTA East Wall SA20 - 1.7m	FTA South Floor SA8 - 1.7m	FTA East Wall SA19 - 1.0m	FTA South Floor SA7 - 1.7m	FTA South Wall SA17 - 1.0m	FTA South Wall SA18 - 1.7m	
Parameter	Collection Date	CCME CWS Commercial Ecological Soil Pathway Coarse-	CCME CSQG for Protection of Environmental Health Commercial Surface/Subsoil Coarse-Grained	Units	18-Aug-15	18-Aug-15	18-Aug-15	18-Aug-15	18-Aug-15	18-Aug-15	18-Aug-15	18-Aug-15	18-Aug-15	
	Laboratory Job #				B572411	B572411	B572411	B572411	B572411	B572411	B572411	B572411	B572411	
	Laboratory Report Date				4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	4-Sep-15	
	GPS Coordindates - Northing				7666729.8	7666732.0	7666729.8	7666732.0	7666747.6	7666743.2	7666747.6	76664963.6	7666752.2	
	Easting				493597.0	493609.3	493597.0	493609.3	493614.9	493592.6	493614.9	493601.5	493569.2	
Volatile Organic Compounds														
Benzene	-	180/360	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.025	0.26	<0.0050	0.17	<0.0050	0.021	
Toluene	-	250/500	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Ethylbenzene	-	300/600	mg/kg	<0.010	<0.010	<0.010	<0.010	0.017	0.098	<0.010	0.05	0.023	0.21	
Xylenes (total)	-	350/700	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	0.46	<0.040	0.22	0.055	0.19	
Petroleum Hydrocarbons F1 to F4														
F1 (C6 to C10)	320	-	mg/kg	<12	<12	<12	<12	<12	15	<12	25	<12	<12	
F1 (C6 to C10 minus BTEX)	nv	-	mg/kg	<12	<12	<12	<12	<12	16	<12	26	<12	<12	
F2 (C10 to C16)	260	-	mg/kg	<10	<10	<10	93	<10	61	<10	140	<10	<10	
F3 (C16 to C34)	1700	-	mg/kg	<50	<50	<50	98	<50	83	53	<50	<50	<50	
F4 (C34 to C50)	3300	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Metals														
Lead	-	260	mg/kg	4.1	---	---	7.9	2.5	6	---	3.4	4.6	---	

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							COC A158829
Sample ID	Standard 1	Standard 2		Field Dup. 4 - South Wall SA18 - 1.7m	FTA South Wall SA25 - 1.0m	FTA South Wall SA26 - 1.7m	FTA West Wall SA27 - 1.0m
Parameter	CCME CWS Commercial Ecological Soil Pathway Coarse-Grained	CCME CSQG for Protection of Environmental Health Commercial Surface/Subsoil Coarse-Grained	Units	18-Aug-15 B572411	19-Aug-15 B572411	19-Aug-15 B572411	20-Aug-15 B572551
Collection Date				4-Sep-15	4-Sep-15	4-Sep-15	15-Sep-15
Laboratory Job #				7666752.2	7666736.6	7666736.6	7666771.2
Laboratory Report Date				493569.2	493583.4	493583.4	493552.9
GPS Coordindates - Northing							
Easting							
Volatile Organic Compounds							
Benzene	-	180/360	mg/kg	0.068	<0.0050	<0.0050	<0.005
Toluene	-	250/500	mg/kg	<0.020	<0.020	<0.020	<0.002
Ethylbenzene	-	300/600	mg/kg	0.17	<0.010	<0.010	<0.01
Xylenes (total)	-	350/700	mg/kg	0.13	<0.040	<0.040	<0.04
Petroleum Hydrocarbons F1 to F4							
F1 (C6 to C10)	320	-	mg/kg	<12	<12	<12	<12
F1 (C6 to C10 minus BTEX)	nv	-	mg/kg	<12	<12	<12	<12
F2 (C10 to C16)	260	-	mg/kg	<10	<10	<10	<10
F3 (C16 to C34)	1700	-	mg/kg	<50	70	<50	<50
F4 (C34 to C50)	3300	-	mg/kg	<50	<50	<50	<50
Metals							
Lead	-	260	mg/kg	---	---	4.6	---

Notes:

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nv - no standard exists

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2 - Canadian Environmental Quality Guidelines, CCME Soil Quality Guidelines for the Protection of Environmental and Human Health, 2004, Commercial, C

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SUMMARY OF RPDs FOR SOIL ANALYTICAL RESULTS - FTA
CAMBRIDGE BAY AIRPORT

Sample ID	Standard 1	Standard 2		FTA NW WALL SA2 2.0m	FTA NW WALL SA2 2.0m (Field Dup -1)	RPD	FTA North Floor SA4 - 2.0m	Field Dup. 3 North Floor SA4 - 2.0m	RPD	FTA South Wall SA18 - 1.7m	Field Dup. 4 - South Wall SA18 - 1.7m	RPD
Parameter	CCME CWS Commercial Ecological Soil Pathway Coarse-Grained	CCME CSQG for Protection of Environmental Health Commercial Surface/Subsoil	Units	14-Aug-15 B570599 4-Sep-15 7666794.6 493560.1	14-Aug-15 B570599 4-Sep-15 7666794.6 493560.1	(%)	16-Aug-15 B570766 19-Sep-15 7666774.5 493580.8	16-Aug-15 B570766 19-Sep-15 7666774.5 493580.8	(%)	18-Aug-15 B572411 4-Sep-15 7666752.2 493569.2	18-Aug-15 B572411 4-Sep-15 7666752.2 493569.2	(%)
Collection Date												
Laboratory Job #												
Laboratory Report Date												
GPS Coordindates - Northing												
Easting												
Volatile Organic Compounds												
Benzene	-	180/360	mg/kg	<0.008	<0.008	n.c.	0.11	0.079	32.8	0.021	0.068	105.6
Toluene	-	250/500	mg/kg	<0.02	<0.02	n.c.	0.77	0.52	38.8	<0.020	<0.020	n.c.
Ethylbenzene	-	300/600	mg/kg	<0.01	<0.01	n.c.	0.41	0.31	27.8	0.21	0.17	21.1
Xylenes	-	350/700	mg/kg	<0.04	<0.04	n.c.	3.7	2.8	27.7	0.19	0.13	37.5
Petroleum Hydrocarbons F1 to F4												
F1 (C6 to C10)	320	-	mg/kg	<12	<12	n.c.	160	140	13.3	<12	<12	n.c.
F1 (C6 to C10 minus BTEX)	nv	-	mg/kg	<12	<12	n.c.	160	140	13.3	<12	<12	n.c.
F2 (C10 to C16)	260	-	mg/kg	<10	<10	n.c.	45	33	30.8	<10	<10	n.c.
F3 (C16 to C34)	1700	-	mg/kg	<50	<50	n.c.	<50	<50	n.c.	<50	<50	n.c.
F4 (C34 to C50)	3300	-	mg/kg	<50	<50	n.c.	<50	<50	n.c.	<50	<50	n.c.

n.c. denotes not calculated

*RPDs have only been considered where a concentration is greater than 5 times the Reportable Detection Limit (RDL)

****High RPDs are in bold (Acceptable RPDs for each RDL multiplier range are: 50 (5-10 x RDL); 50 (10-30 x RDL); 50 (> 30 x RDL))**

Qualifying ion outside of acceptance criteria. Results are tentatively identified and potentially biased high.