

Appendix B:

Paint Sample Analysis

**CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS
80 EAST WHITE HILLS ROAD
ST.JOHN'S , NL A1C5X1
(709) 772-3685**

ATTENTION TO: James Beresford

PROJECT: Cape Spear

AGAT WORK ORDER: 16X125416

OCCUPATIONAL HYGIENE REVIEWED BY: Jason Coughtrey, Inorganics Supervisor

SOIL ANALYSIS REVIEWED BY: Jason Coughtrey, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Jennifer Patterson, Organics Supervisor

DATE REPORTED: Aug 24, 2016

PAGES (INCLUDING COVER): 10

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

***NOTES**

VERSION 2:Version 2.0 supersedes Version 1.0, updated report, issued August 24, 2016.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 16X125416

PROJECT: Cape Spear

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
http://www.agatlabs.com

CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS

SAMPLING SITE:

ATTENTION TO: James Beresford

SAMPLED BY:

Lead & Mercury in Paint

DATE RECEIVED: 2016-08-11

DATE REPORTED: 2016-08-24

Parameter	Unit	Alumni Bldg		Alumni Bldg		Fog Alarm Grey		Alumni Shed		Lower Shed	
		G / S	RDL	Grey	White	Soil	Soil	Grey	Soil	White	Soil
Lead	µg/g		10	5490	171	5.9	8090	952	19800		
Mercury	µg/g		0.01	1.9	5.9	6.9	12	4.5			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



AGAT Laboratories

Certificate of Analysis

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CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS
SAMPLING SITE:

ATTENTION TO: James Beresford
SAMPLED BY:

O. Reg. 558 Lead + Hg

DATE RECEIVED: 2016-08-11

DATE REPORTED: 2016-08-24

SAMPLE DESCRIPTION:		Alumni Bldg		Alumni Bldg		Alumni Bldg		Fog Alarm Grey		Alumni Shed	
Parameter	Unit	G / S	RDL	Grey Soil	White Soil	Grey Soil	White Soil	Soil	Soil	Grey Soil	Grey Soil
Lead Leachate	mg/L	5	0.10	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016
Mercury Leachate	mg/L	0.1	0.01	7765230	7773851	7773851	7773851	7773852	7773853	7773853	7773853
				51.0	0.035	0.035	0.035	100	0.010	0.010	0.389
				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SAMPLE DESCRIPTION:		Lower Shed		Alumni Wood		Lower Shed		Alumni Wood		Lower Shed	
Parameter	Unit	G / S	RDL	White Soil	Wood	White Soil	Wood	Wood	Wood	Wood	Wood
Lead Leachate	mg/L	5	0.10	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016	8/10/2016
Mercury Leachate	mg/L	0.1	0.01	7773854	7773855	7773855	7773855	7773856	7773856	7773856	7773856
				187	0.679	0.679	0.679	10.2	0.010	0.010	10.2
				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria

7765230-7773856 Please note that due to insufficient sample volume, TCLP analysis was completed on a mass which did not meet the minimum sample requirements to perform the extraction as specified in the reference method.

Elevated RDL indicates the degree of sample dilution prior to the analysis in order to keep analytes within the calibration range of the instrument and to reduce matrix interference.

Certified By:



AGAT Laboratories

Guideline Violation

AGAT WORK ORDER: 16X125416

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SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
7765230	Alumni Bldg Grey	O. Reg 558	O. Reg. 558 Lead + Hg	Lead Leachate	5	51.0
7773852	Fog Alarm Grey	O. Reg 558	O. Reg. 558 Lead + Hg	Lead Leachate	5	100
7773854	Lower Shed White	O. Reg 558	O. Reg. 558 Lead + Hg	Lead Leachate	5	187
7773856	Lower Shed Wood	O. Reg 558	O. Reg. 558 Lead + Hg	Lead Leachate	5	10.2

Quality Assurance

CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS

AGAT WORK ORDER: 16X125416

PROJECT: Cape Spear

ATTENTION TO: James Beresford

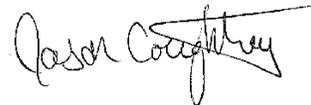
SAMPLING SITE:

SAMPLED BY:

Occupational Hygiene Analysis

RPT Date: Aug 24, 2016		DUPLICATE					Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Lead & Mercury in Paint															
Lead	7765230	7765230	5490	5270	4.1%	< 10	107%	80%	120%	103%	80%	120%	98%	70%	130%
Mercury	7765230	7765230	1.9	1.8	5.4%	< 0.01	99%	90%	110%	100%	80%	120%	102%	70%	130%

Certified By:



Quality Assurance

CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS

AGAT WORK ORDER: 16X125416

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ATTENTION TO: James Beresford

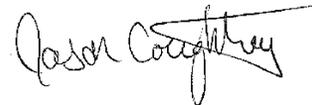
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Aug 24, 2016			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

O. Reg. 558 Lead + Hg

Lead Leachate	7765230	7765230	51.0	49.3	3.4%	< 0.010	91%	90%	110%	84%	80%	120%	86%	70%	130%
Mercury Leachate	7765230	7765230	<0.01	<0.01	NA	< 0.01	100%	90%	110%	93%	80%	120%	92%	70%	130%

Certified By:


Quality Assurance

CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS

AGAT WORK ORDER: 16X125416

PROJECT: Cape Spear

ATTENTION TO: James Beresford

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Aug 24, 2016			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

Total Polychlorinated Biphenyls in Paint

Total PCBs	1	7765230	< 0.5	< 0.5	0.0%	< 0.5	113%	60%	140%	120%	60%	130%	NA	60%	130%
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Certified By:



Method Summary

CLIENT NAME: DEPARTMENT OF FISHERIES AND OCEANS

AGAT WORK ORDER: 16X125416

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SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Occupational Hygiene Analysis			
Lead	MET-93-6106	EPA SW 846 3050B & 6010C	ICP/OES
Mercury	MET-93-6101	EPA SW 846 7471A & 245.5	CVAAS
Soil Analysis			
Lead Leachate	MET-93-6103	EPA SW-846 1311 & 3010A & 6020A	ICP-MS
Mercury Leachate	MET-93-6103	EPA SW-846 1311 & 3010A & 6020A	ICP-MS
Trace Organics Analysis			
Total PCBs	ORG-120-5107	EPA SW-846 8082	GC/ECD
Decachlorobiphenyl	ORG-120-5106	EAP SW846 3510C/8080/8010	GC/ECD



Unit 122 • 11 Morris Drive
Dartmouth, NS
B3B 1M2
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Laboratories

Chain of Custody Record

Report Information

Company: DFO
 Contact: JAMES BERESFORD
 Address: 80 EAST White Hills Road
 Phone: 772.3685 Fax: 772.0408
 AGAT Quotation: _____
 Client Project #: CAPE SPAR

Invoice To

Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/Credit Card#: _____

Same Yes / No

Report Information (Please print):

1. Name: JAMES BERESFORD
 Email: DFO-MPO
 2. Name: JG.OCA
 Email: _____

Regulatory Requirements (Check):
 List Guidelines on Report Do not list Guidelines on Report
 PIRI Tier 1 Res Pot Coarse
 Tier 2 Com N/Pot Fine
 Gas Fuel Lube
 CCME CDWQ Industrial NSDFOSP
 Commercial HRM 101
 Res/Park Storm Water
 Agricultural Waste Water
 FWAL Sediment Other _____

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT Same day 1 day 2 days 3 days

Date Required: _____

Laboratory Use Only

Arrival Condition: Good Poor (see notes)
 Arrival Temperature: 25.9
 Hold Time: 10 x 125416
 AGAT Job Number: _____
 Notes: RUSH!

Drinking Water Sample: Yes No
 Reg. No.: _____

Field Filtered/Preserved	
Standard Water Analysis	
Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	
Mercury	
<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	
pH	
<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	
TKN	
Total Phosphorus	
Phenols	
Tier 1: TPH/BTEX (PRI)	
Tier 2: TPH/BTEX Fractionation	
CCME-CWS TPH/BTEX	
VOC	
THM	
HAA	
PAH	
PB	
Total Coliforms + E.Coli (MPN)	
Fecal Coliform (MF)	
Other: <u>Lead</u>	
Other: <u>Leachate Pb/Hg</u>	
Hazardous (Y/N)	

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info. Sample Containment
<u>Alumni Bldg Green</u>	<u>Aug 10th / 1PM</u>	<u>Paint</u>	<u>Ziplock</u>	
<u>Alumni Bldg White</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>Fog Atrium Green</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>Alumni Shed Green</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>Lower Shed White</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>Alumni Wood</u>	<u>"</u>	<u>WOOD</u>	<u>"</u>	
<u>Lower Shed Wood</u>	<u>"</u>	<u>WOOD</u>	<u>"</u>	

Chain of Custody

Sample Requisitioned By (Print Name): James Beresford
 Date/Time: Aug 10th 2016
 Samples Requisitioned By (Sign): [Signature]

Sample Received By (Print Name): Justin Kelly
 Date/Time: Aug 11/2016
 Samples Received By (Sign): [Signature]

Turn Time: 2.05

Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT

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 No: 038815