

Work Order Number: 18G394761

Company

9999300 MISC AGAT CLIENT AB

AB

Tel:

Fax:

Contact

Contact Name: Robert King

Tel: 7808365109

Fax:

Email: bobking5757@gmail.com

Other Information

PO:

Submission Date: 10/9/2018 11:36:00 AM

AFE:

Effective Date: 10/9/2018 11:36:00 AM

Project No:

Due Date: 10/17/2018 8:00:00 PM

Operations, analysis, materials included in work order

PRODUCT ID	ENV DESCRIPTION	QUANTITY
50100	Courier Charge	0
50002	Environmental Handling & Compliance	4
54762	BTEX/F1-F4 in Water	4

Sample Identification Information, Provided by client

Sample Id	Sample Type	LSD	Container Type	Analysis Required
	Sample Date	Sampling Point	Preserve	Sample Description
Other Information				
9609415A	Water		500ml Glass Jar	BTEX F1-F4
	Oct 07, 2018		NONE	09BH01
				Rec'd in good condition@
9609417A	Water		500ml Glass Jar	BTEX F1-F4
	Oct 07, 2018		NONE	09BH02
				Rec'd in good condition@
9609418A	Water		500ml Glass Jar	BTEX F1-F4
	Oct 07, 2018		NONE	09BH03
				Rec'd in good condition@



Laboratories

SAMPLE INTEGRITY RECEIPT FORM

RECEIVING BASICS - Shipping

Company/Consultant: GRUSE MK.

Courier: 9/g 9/g Prepaid Collect

Waybill# _____

Branch: EDM (GP) FN FM RD VAN LYD FSJ EST Other: _____

If multiple sites were submitted at once: Yes No

Custody Seal Intact: Yes No

TAT: <24hr 24-48hr 48-72hr Reg Other _____

Cooler Quantity: _____

TIME SENSITIVE ISSUES - Shipping

ALREADY EXCEEDED HOLD TIME? Yes No

Inorganic Tests (Please Circle): Mibi, BOD, Nitrate/Nitrite, Turbidity, Microtox, Ortho PO4, Tedlar Bag, Residual Chlorine, Chlorophyll*, Chloroamines*

Earliest Expiry: _____

Hydrocarbons: Earliest Expiry _____

SAMPLE INTEGRITY - Shipping

Hazardous Samples: Yes No Precaution Taken: _____

Legal Samples: Yes No

International Samples: Yes No

Tape Sealed: Yes No

Coolant Used: Icepack Bagged Ice Free Ice Free Water

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

FROZEN (Please Circle if samples received Frozen)

1 (Bottle/Jar) P + P = P °C 2 (Bottle/Jar) ___ + ___ = ___ °C

3 (Bottle/Jar) ___ + ___ = ___ °C 4 (Bottle/Jar) ___ + ___ = ___ °C

5 (Bottle/Jar) ___ + ___ = ___ °C 6 (Bottle/Jar) ___ + ___ = ___ °C

7 (Bottle/Jar) ___ + ___ = ___ °C 8 (Bottle/Jar) ___ + ___ = ___ °C

9 (Bottle/Jar) ___ + ___ = ___ °C 10 (Bottle/Jar) ___ + ___ = ___ °C

(If more than 10 coolers are received use another sheet of paper and attach)

LOGISTICS USE ONLY

Workorder No: _____

Samples Damaged: Yes No If YES why? _____

No Bubble Wrap Frozen Courier

Other: _____

Account Project Manager: _____ have they been notified of the above issues: Yes No

Whom spoken to: _____ Date/Time: _____

CPM Initial: _____

General Comments: Client is carrying per non-

company

* Subcontracted Analysis (See CPM)



Laboratories

2910 12 Street NE
 Calgary, Alberta T2E 7P7
 P: 403-735-2005 • F: 403-735-2774
 webearth.agatlabs.com

Laboratory Use Only
 Arrival Temperature: 18G3947612
 AGAT Job Number: 104C
 Date and Time:

Chain of Custody Record

Emergency Support Services Hotline 1-855-AGAT 245 (1-855-242-8245)

Report Information

Company: Grease pit store
 Contact: Robert King
 Address: Box 65 Manning AB
 Phone: 780-836-5109 Fax: _____
 LSD: _____

Report Information

1. Name: Robert King
 Email: Rob.King@ymail.com
 2. Name: _____
 Email: _____
 3. Name: _____
 Email: _____

Report Information

Turnaround Time Required: STAT -9
 Regular TAT 5 to 7 Business Days
 <24 Hours (200%)
 Two Day / Next Day (100%)
 Rush TAT Three Day (50%)
 Four Day (25%)
 Date Required: _____

SEE BACK FOR
 SUBMITTER'S
 REGULATORY
 REQUIREMENTS
 FOR ANALYSIS
 INFORMATION

Requirements (Selection may impact detection limits)

CCME AB Tier 1
 Agricultural Agricultural
 Industrial Industrial
 Residential/Park Residential/Park
 Commercial Commercial
 FWAL Natural Area
 Drinking Water Alberta Surface Water
 Other: _____
 Chronic Acute

Report Format

Single Sample Per Page
 Multiple Samples Per Page
 Export

Invoice To

Same Yes / No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE#: _____
 Standing Offer #: _____

<input checked="" type="checkbox"/> CCME/AB : BTEX/F1-F4 <input type="checkbox"/> CCME/AB : BTEX/F1-F2 <input type="checkbox"/> BC BTEX/PH/EPH <input type="checkbox"/> BC LEPH/HEPH <input type="checkbox"/> SK BTEX/TH/C11-C22, C23-C60 <input type="checkbox"/> Soil Metals: <input type="checkbox"/> HWS-8 <input type="checkbox"/> SP-8 <input type="checkbox"/> Hg <input type="checkbox"/> Cr ⁶ <input type="checkbox"/> Water Metals: <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr ⁶ Routine Water Chemistry Landfill: <input type="checkbox"/> AB Class 2 <input type="checkbox"/> BC <input type="checkbox"/> SK Collforms: <input type="checkbox"/> Total <input type="checkbox"/> Fecal <input type="checkbox"/> EcoH Particle Size: <input type="checkbox"/> Sieve (75µm) <input type="checkbox"/> Texture HOLD FOR 30 DAYS NO ANALYSIS (Additional Fee) HOLD FOR 30 DAYS AFTER ANALYSIS (Additional Fee)

Detailed Safety:

AB SK BC D50

COMMENTS (FILTERED, PRESERVED, HAZARDOUS*)

ADDITIONAL FEE

DATE/TIME SAMPLED

Oct 7
 " "
 " "

DEPTH

SAMPLE IDENTIFICATION

190041509 BH01
01707 BH02
04809 BH03
040109 BH04

LABORATORY USE (LAB ID #)

1
2
3
4
5
6
7
8
9
10

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	DEPTH	DATE/TIME SAMPLED	SAMPLE MATRIX	COMMENTS (FILTERED, PRESERVED, HAZARDOUS*) ADDITIONAL FEE	# OF CONTAINERS WMS / BMS / BOTTLES	Detailed Safety: <input type="checkbox"/> AB <input type="checkbox"/> SK <input type="checkbox"/> BC <input type="checkbox"/> D50	CCME/AB : BTEX/F1-F4 <input type="checkbox"/> CCME/AB : BTEX/F1-F2	BC BTEX/PH/EPH <input type="checkbox"/> BC LEPH/HEPH	SK BTEX/TH/C11-C22, C23-C60	Soil Metals: <input type="checkbox"/> HWS-8 <input type="checkbox"/> SP-8 <input type="checkbox"/> Hg <input type="checkbox"/> Cr ⁶	Water Metals: <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr ⁶	Routine Water Chemistry	Landfill: <input type="checkbox"/> AB Class 2 <input type="checkbox"/> BC <input type="checkbox"/> SK	Collforms: <input type="checkbox"/> Total <input type="checkbox"/> Fecal <input type="checkbox"/> EcoH	Particle Size: <input type="checkbox"/> Sieve (75µm) <input type="checkbox"/> Texture	HOLD FOR 30 DAYS NO ANALYSIS (Additional Fee)	HOLD FOR 30 DAYS AFTER ANALYSIS (Additional Fee)
1	190041509 BH01		Oct 7				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2	01707 BH02		"				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
3	04809 BH03		"				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
4	040109 BH04		"				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
5							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
6							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
7							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
8							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
9							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
10							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Samples Received By (Print Name and Sign): <u>Robert King</u>	Date/Time: <u>Oct 9</u>	Date/Time: _____	Date/Time: _____	Page ____ of ____
Samples Returned By (Print Name and Sign): <u>Robert King</u>	Date/Time: _____	Date/Time: _____	Date/Time: _____	Pink Copy - Client Yellow Copy - AGAT White Copy - AGAT
Samples Returned By (Print Name and Sign): <u>Robert King</u>	Date/Time: _____	Date/Time: _____	Date/Time: _____	No: AB 091657

Method Summary

CLIENT NAME: MISC AGAT CLIENT AB

AGAT WORK ORDER: 18G394761

PROJECT:

ATTENTION TO: Robert King

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	GTO 0540	EPA SW 846/5030/8260	GC/MS
Toluene	GTO 0540	EPA SW 846/5030/8260	GC/MS
Ethylbenzene	GTO 0540	EPA SW 846/5030/8260	GC/MS
Xylenes	GTO 0540	EPA SW 846/5030/8260	GC/MS
C6 - C10 (F1)	GTO 0540	EPA SW 846/5030/8260	GC/FID
C6 - C10 (F1 minus BTEX)	GTO 0540	EPA SW 846/5030/8260	GC/FID
C>10 - C16	GTO-0511	A108, EPA SW-846 3510	GC/FID
C>16 - C34	GTO-0511	A108, EPA SW-846 3510	GC/FID
C>34 - C50	GTO-0511	A108, EPA SW-846 3510	GC/FID
Toluene-d8 (BTEX)	GTO-0540	EPA SW-846 5030B	GC/MS
o-Terphenyl (F2-F4)	GTO-0511	AEC A108, EPA SW-846 3510B	GC/FID

Quality Assurance

CLIENT NAME: MISC AGAT CLIENT AB
 PROJECT:
 SAMPLING SITE:

AGAT WORK ORDER: 18G394761
 ATTENTION TO: Robert King
 SAMPLED BY:

Trace Organics Analysis																
RPT Date: Oct 18, 2018			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	
Petroleum Hydrocarbons (BTEX/F1-F4) In Water - GP																
Benzene	2498	8621	< 0.0005	< 0.0005	NA	< 0.0005	98%	80%	120%	104%	70%	130%	100%	60%	140%	
Toluene	2498	8621	< 0.0005	< 0.0005	NA	< 0.0005	103%	80%	120%	105%	70%	130%	102%	60%	140%	
Ethylbenzene	2498	8621	< 0.0005	< 0.0005	NA	< 0.0005	104%	80%	120%	103%	70%	130%	98%	60%	140%	
Xylenes	2498	8621	< 0.0005	< 0.0005	NA	< 0.0005	108%	80%	120%	109%	70%	130%	104%	60%	140%	
C6 - C10 (F1)	2498	8621	< 0.1	< 0.1	NA	< 0.1	110%	70%	130%	114%	70%	130%	78%	60%	140%	
C>10 - C16	3753	TW	< 0.1	< 0.1	NA	< 0.1	98%	80%	120%	115%	60%	140%	112%	60%	140%	
C>16 - C34	3753	TW	< 0.1	< 0.1	NA	< 0.1	98%	80%	120%	115%	60%	140%	119%	60%	140%	
C>34 - C50	3753	TW	< 0.1	< 0.1	NA	< 0.1	97%	80%	120%	117%	60%	140%	120%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

Certified By:





Laboratories

Certificate of Analysis

AGAT WORK ORDER: 18G394761

PROJECT:

CLIENT NAME: MISC AGAT CLIENT AB

SAMPLING SITE:

ATTENTION TO: Robert King

SAMPLED BY:

DATE RECEIVED: 2018-10-09

DATE REPORTED: 2018-10-18

Petroleum Hydrocarbons (BTEX/F1-F4) in Water - GP

Parameter	Unit	SAMPLE DESCRIPTION: 09BH01		09BH02		09BH03		09BH04	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Type:		Water	Water	Water	Water	Water	Water	Water	Water
Date Sampled:		2018-10-07	2018-10-07	2018-10-07	2018-10-07	2018-10-07	2018-10-07	2018-10-07	2018-10-07
G/S	RDL	9609415	9609417	9609418	9609419	9609418	9609419	9609418	9609419
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/L	0.0005	<0.0005	0.0010	0.0005	0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes	mg/L	0.0005	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
C8 - C10 (F1)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C8 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C>10 - C16	mg/L	0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1
C>16 - C34	mg/L	0.1	0.4	<0.1	0.5	<0.1	<0.1	<0.1	<0.1
C>34 - C60	mg/L	0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits							
Toluene-d8 (BTEX)	%	50-150	97	97	98	98	97	97	97
o-Terphenyl (F2-F4)	%	50-150	134	125	112	112	87	87	87

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

9609415-9609419 The C8-C10 fraction is calculated using toluene response factor.

The C10 - C16, C18 - C34, and C34 - C60 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Total C6 - C60 results are corrected for BTEX contributions.

nC8 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Sample is blank corrected.

Analysis performed at AGAT Grande Prairie (unless marked by *)

Certified By:

CLIENT NAME: MISC AGAT CLIENT AB, AB

ATTENTION TO: Robert King

PROJECT:

AGAT WORK ORDER: 18G394761

TRACE ORGANICS REVIEWED BY: Maureen Mckinley, Lab Supervisor

DATE REPORTED: Oct 18, 2018

PAGES (INCLUDING COVER): 6

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (780) 402-2050

***NOTES**

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

AGAT Laboratories (V1)

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request