



File No.: 04-1000-20-2019-343

May 30, 2019

s.22(1)

Dear s.22(1)

Re: Request for Access to Records under the Freedom of Information and Protection of Privacy Act (the "Act")

I am responding to your request of May 29, 2019 for:

Underground Storage Tank removal permit and associated reports submitted to the City for 3235 Quesnel Drive.

All responsive records are attached. Some information in the records has been severed, (blacked out), under s.22(1) of the Act. You can read or download this section here: http://www.bclaws.ca/EPLibraries/bclaws new/document/ID/freeside/96165 00

Under section 52 of the Act you may ask the Information & Privacy Commissioner to review any matter related to the City's response to your request. The Act allows you 30 business days from the date you receive this notice to request a review by writing to: Office of the Information & Privacy Commissioner, info@oipc.bc.ca or by phoning 250-387-5629.

If you request a review, please provide the Commissioner's office with: 1) the request number assigned to your request (#04-1000-20-2019-343); 2) a copy of this letter; 3) a copy of your original request for information sent to the City of Vancouver; and 4) detailed reasons or grounds on which you are seeking the review.

Please do not hesitate to contact the Freedom of Information Office at foi@vancouver.ca if you have any questions.

Yours truly,

Barbara J. Van Fraassen, BA Director, Access to Information & Privacy

<u>Barbara.vanfraassen@vancouver.ca</u> 453 W. 12th Avenue Vancouver BC V5Y 1V4

*If you have any questions, please email us at foi@vancouver.ca and we will respond to you as soon as possible. Or you can call the FOI Case Manager at 604.871.6584.

Encl.

:kt

I - 2018-00291





FIRE AND RESCUE SERVICES FIRE PREVENTION DIVISION

TAGEST NO.	
Permit No.:	ethikan bili katub ya Kuping
VIA STATE	(office use only)
CONTRACTOR AND AND THE CONTRACTOR	

Tank Removal or Abandonment Permit Application

	R	equested Activi	ty or Service	
CIRCLE ONE CAPACITY (Gal/L)	SETBACK (FT)	BOTTOM OF TANK (FT)	TYPE OF LIQUID Gasoline/Petroleum/ Diesel Oil	
	unkno	wn	Da	Remove
2.	u u			□Remove □Abandon
TE DRAWING ATTAC AME OF CONTRACT C ame of Person Signi	DR:	s.22(1)	OWNER:	
gnature:			PIC:	604-726-845 Jaswinder
ated: Jur	u. 13	, 2018	3	Dave on Mini Exce







Underground Tank Removal Permit

FI-2018-00291

Issue Date: Jun 13, 2018

Application Date: Jun 13, 2018

Start Date:

Applicant Place Name Location of Permit

\$.22(1)
3235 QUESNEL DRIVE
Vancouver, BC V6N 2H3

Place Name Location of Permit

3235 QUESNEL DRIVE
Vancouver, BC V6S 1Z7

Specific Location:

Work Description

Removal of one tank on site. Capacity unknown

Terms and Conditions

- The work under this permit is authorized pursuant to the Fire By-Law.
- If work cannot be completed in the same day, the owner must follow requirements of Section 8.2 of the Building By-Law for Protection of the Public and Fire Safety on fencing off construction sites.
- Tank removal must comply with Division B Subsection 4.3.16 of the Vancouver Fire By-Law.
- For removal: the tanks, together with connected piping and dispensing equipment, shall have all combustible or flammable liquids removed. The tanks and piping must be removed from the ground and purged of vapours. The pipe ends must be permanently sealed by capping or plugging.
- Separate building permit for excavation and shoring, plus modified geotechnical engineer's letter.
- Clearance is required from the Engineering Department, Street Division, for work affecting...
- Backfill of excavation shall not be done prior to inspection by Vancouver Fire and Rescue Services.
- For fuel dispensing site or known contamination site, clearance from Environmental Protection Branch is required.
- This permit will become incomplete if any of the following conditions are not met:
- Work authorized by the permit is not commenced within 90 days from the date of issuance.
- · Work has been substantially discontinued for a period of 90 days.
- The premises shall be kept in a safe manner with guards, shoring, etc. as required by the Occupational health and Safety Regulation and City By-Laws.
- Inspection is required by Vancouver Fire and Rescue Services.
- If the soil surrounding the storage tank is contaminated, the soil shall be replaced with clean fill.
- Environmental Final Closure Report and clearance required.
- Backfill with clean soil required.
- Construction must be carried out in compliance with the provisions of the Noise Control By-Law No. 6555



Underground Tank Removal Permit

FI-2018-00291

Terms and Conditions

- Contractor or homeowner must be on site for the inspection by Vancouver Fire and Rescue Services.
- Underground storage and removal shall be done in accordance with good engineering practice.
- To book an inspection call 311 from with Vancouver or 604.873.7000 from outside Vancouver. The 311 Centre is open 7 days a week from 7am to 10pm, 365 days a year. Also, our 24 hour Building Inspections booking request message line is 604.873.7058. For information on how to use it, please contact the 311 Centre.

Permit Fees

Description		Amount Ta	x Amounts Fee Tot	al	Fee Adjs	Pmts and Adjs	Balance
Underground Oil T	ank Fee	\$300.00	\$300.00		\$0.00	\$300.00	\$0.00

Total:

\$0.00

From: Radek <radek@alaraenvironmental.com>

To: "Underground Storage Tank Removal" <ust.reporting@vancouver.ca>

Date: 12/4/2018 8:20:46 AM

Subject: RE: 3235 Quesnel St., Vancouver, BC

Attachments: 3235 Quesnel st.pdf

Good Morning,

Apologies for the error, please see attached.

Thank you

From: Underground Storage Tank Removal [mailto:ust.reporting@vancouver.ca]

Sent: Thursday, November 29, 2018 12:04 PM

To: Radek Cc: Steven Office

Subject: RE: 3235 Quesnel St., Vancouver, BC

Radek,

The sample IDs do not match those on the figure.

Revise and resubmit.

-Vanessa

From: Radek [mailto:radek@alaraenvironmental.com]

Sent: Tuesday, November 27, 2018 10:44 AM To: Underground Storage Tank Removal Subject: 3235 Quesnel St., Vancouver, BC

Please see attached document for records/approval.

Thank you,

ALARA Environmental Health and Safety Ltd.

P: 604 724 2331 F: 604 876 6585

The information contained in this e-mail is confidential and is intended solely for the addressee. If you are not the intended recipient, any form of disclosure, reproduction, distribution or any action taken or refrained from in reliance on it, is prohibited and may be unlawful. Please notify the sender immediately. We also like to inform you that communication via e-mail over the e-mail is insecure because third parties may have the possibility to access and manipulate e-mails. Any e-mail messages are sent for information purposes only and shall not be binding nor construed as constituting any legal obligation.

City of Vancouver - FOI File # 2019-343



UNDERGROUND STORAGE TANK REMOVAL/DECOMMISSIONING REPORT

	Site Information:	200					
	Owner's Name:	22(1)			- Total Transfer		
	Site Address: 3235	Quesnel Dr	ive, Van	couver, E	British Col	umbia	
	Excavation Plan/S At minimum inclu		ow, build	lings, ext	ents of ex	cavation, a	and <u>sample locatio</u>
	Tank Information	:					
	Was oil removed f	rom tank?	YV	N/A			
	Was all associated	(e.g., feed l	ines, ver	nting) pip	ing remov	ed?	YVN
	Tank Summary Tal	ble:					
	Tank Removal Permit (FI) Humber	Tank Capacity	Perfo	rations	physica (e.g	visible l damage . pipe nage)	Date tank removed from service
	455000000000	Liters	Yes	No	Yes	No	Year/Month/Day
	FI-2018-00291	2491	Ye	es		No	Unknown
*	Pan Pacific Recy Liquid Waste Disp		MICHE	ra, racii	moria, Do	YOV TINO	
	Receiver name/ac	Idress: N/A					
	Disposal dates (YY	YY/MM/DD):	N/A				
	Soil Disposal (if a	pplicable):					
	Volume (m³) dispo	sed: 8.50					
	Receiver Company	& Address:	Sumas I	Environm	ental Sen	vices Ltd.	
	4623 Byrne Rd, E						
	Field Observation	ns					
	Field-screening (e as drains, NAPL id				tions, stair	ning, prefe	erred pathways suc
	Moderate poil contr	amination (vari	OUE FOR	ne no sia	ne of etrees	and venatat	ion or o.s. migration
	moderate our conte	arrangement (Age)	une enall	io/, the oly	no un au ca	our vegetat	on or o.a. migration

Sketch

Laboratory Certificates of Analysis

Sample Chain of Custody

Standard Limitations (optional)



CERTIFICATE OF ANALYSIS

REPORTED TO ALARA Environmental Health and Safety

3869 Commercial Street Vancouver, BC V5N 4G1

ATTENTION Radek Staufcik, MASc.

PO NUMBER

PROJECT

99100 - 3235 Quesnel

PROJECT INFO

WORK ORDER

8071585

RECEIVED / TEMP REPORTED 2018-07-17 15:20 / 22°C

2018-07-23 10:11

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



We've Got Chemistry



Ahead of the Curve



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

It's simple. We figure the more you errory working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you. Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEPORE you need it, so you can stay up to date and in the know.

If you have any questions or concerns, please contact me at hmaleki@caro.ca

Authorized By:

Helen Maleki, Dipl T Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T53 1H7

Caring About Results, Obviously.

Page 1 of 5



TEST RESULTS

BCMOE Aggregate Hydrocarbons

TEOTILEOGEIG				1		
PROJECT ALARA Environmental Health and Safety 99100 - 3235 Quesnel			WORK ORDER REPORTED	8071585 2018-07-23 10:1		
Analyte	Result	RL	Units	Analyzed	Qualifie	
99100-1 (8071585-01) Matrix: Soil Samp	led: 2018-07-16					
General Parameters			ta x Ti			
Moisture	11.0	1.0	% wet	2018-07-20		
BCMOE Aggregate Hydrocarbons						
EPHs10-19	< 50	50	mg/kg dry	2018-07-20		
EPHs19-32	< 50		mg/kg dry	2018-07-20		
Surrogate: 2-Methylnonane (EPH/F2-4)	115	60-140		2018-07-20		
99100-2 (8071585-02) Matrix: Soil Samp	led: 2018-07-16					
General Parameters				4.5		
Moisture	12.0	1.0	% wet	2018-07-20		
BCMOE Aggregate Hydrocarbons						
EPHs10-19	9800	50	mg/kg dry	2018-07-20		
EPHs19-32	3900		mg/kg dry	2018-07-20		
Surrogate: 2-Methylnonane (EPH/F2-4)	112	60-140	100	2018-07-20		
99100-3 (8071585-03) Matrix: Soil Samp General Parameters	led: 2018-07-16					
Moisture	12.8	1.0	% wet	2018-07-20		
BCMOE Aggregate Hydrocarbons						
EPHs10-19	< 50	50	mg/kg dry	2018-07-20		
EPHs19-32	< 50	50	mg/kg dry	2018-07-20		
Surrogate: 2-Methylnonane (EPH/F2-4)	133	60-140		2018-07-20		
99100-4 (8071585-04) Matrix: Soil Samp	led: 2018-07-16					
General Parameters						
Moisture	6.2	1.0	% wet	2018-07-20		
BCMOE Aggregate Hydrocarbons						
EPHs10-19	2600	50	mg/kg dry	2018-07-20		
EPHs19-32	1000		mg/kg dry	2018-07-20		
Surrogate: 2-Methylnonane (EPH/F2-4)	113	60-140	%	2018-07-20		
99100-5 (8071585-05) Matrix: Soil Samp	led: 2018-07-16					
General Parameters						
Moisture	8.2	1.0	% wet	2018-07-20		

Caring About Results, Obviously.

Page 2 of 5



TEST RESULTS

REPORTED TO ALARA Environmental Health and Safety

PROJECT 99100 - 3235 Quesnel WORK ORDER 8071585

REPORTED

2018-07-23 10:11

Analyte	Result	RL	Units	Analyzed	Qualifie
99100-5 (8071585-05) Matrix: Soil Sampl	led: 2018-07-16, Continued				
BCMOE Aggregate Hydrocarbons, Continued					
EPHs10-19	780	50	mg/kg dry	2018-07-20	
EPHs19-32	280	50	mg/kg dry	2018-07-20	
O TOURS OF	3027				
Surrogate: 2-Methylnonane (EPH/F2-4)	130	60-140	%	2018-07-20	
99100-6 (8071585-06) Matrix: Soil Sampl General Parameters		60-140	%	2018-07-20	
99100-6 (8071585-06) Matrix: Soil Sampl			% wet	2018-07-20	
99100-6 (8071585-06) Matrix: Soil Sampl General Parameters	led: 2018-07-16				
99100-6 (8071585-06) Matrix: Soil Sampl General Parameters Moisture	led: 2018-07-16	1.0			S09a
99100-6 (8071585-06) Matrix: Soil Sampl General Parameters Moisture BCMOE Aggregate Hydrocarbons	led: 2018-07-16	1.0	% wet	2018-07-20	509a 509a

Sample Qualifiers:

S09 The surrogate recovery for this sample is outside of established control limits due to sample matrix interference S09a The surrogate recovery for this sample is outside of established control limits due to sample matrix interference'



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO ALARA Environmental Health and Safety

PROJECT 99100 - 3235 Quesnel

WORK ORDER REPORTED 8071585

RTED 2018-07-23 10:11

Analysis Description	Method Ref.	Technique	Location
EPH in Soil	EPA 3570* / BCMOE EPHs*	Shaker Extraction (Hexane-Acetone 1:1) / Gas Chromatography (GC-FID)	Richmond
Moisture in Soil	ASTM D2974-87*	Gravimetry (Dried at 105C)	N/A

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL Reporting Limit (default)
% wet Percent (as received basis)

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

mg/kg dry Milligrams per kilogram (dry weight basis)
ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO ALARA Environmental Health and Safety

PROJECT

99100 - 3235 Quesnel

WORK ORDER

REPORTED

2018-07-23 10:11

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (Blk): A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- . Duplicate (Dup): An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- . Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.

- · Matrix Spike (MS): A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- · Reference Material (\$RM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
BCMOE Aggregate Hydrocarbons, Batch	B8G1508								
Blank (B8G1508-BLK1)			Prepared	2018-07-1	9, Analyze	d: 2018-0	07-20		
EPHs10-19	< 50	50 mg/kg wet							
EPHs19-32	< 50	50 mg/kg wet							
Surrogate: 2-Methylnonane (EPH/F2-4)	16.7	mg/kg wet	16.6		101	50-140			
LCS (B8G1508-BS2)			Prepared	: 2018-07-1	9, Analyze	d: 2018-0	07-20		
EPHs10-19	2700	50 mg/kg wet	2890		94	70-130			
EPHs19-32	3800	50 mg/kg wet	4180		91	70-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	19.5	mg/kg wet	16.6		116	50-140			
Reference (B8G1508-SRM1)			Prepared	: 2018-07-1	9, Analyze	d: 2018-0	07-20		
EPHs10-19	3200	50 mg/kg wet	3020		106	65-130			
EPHs19-32	4800	50 mg/kg wet	4330		112	65-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	18.2	mg/kg wet	20.5		99	50-140			
General Parameters, Batch B8G1550									
Duplicate (B8G1550-DUP1)	Sour	ce: 8071585-06	Prepared	: 2018-07-2	0, Analyze	d: 2018-0	07-20		
Moisture	21.7	1.0 % wet	100	21.8			0.5	40	



CERTIFICATE OF ANALYSIS

REPORTED TO ALARA Environmental Health and Safety

3869 Commercial Street Vancouver, BC V5N 4G1

ATTENTION Radek Staufcik, MASc.

PO NUMBER

PROJECT 99100 - 3235 Quesnel

PROJECT INFO

WORK ORDER

8072692

RECEIVED / TEMP REPORTED

2018-07-26 16:20 / 17°C 2018-08-03 10:10

COC NUMBER No Number

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



We've Got Chemistry



Ahead of the Curve



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Through research, regulation knowledge, and instrumentation, we analytical centre for the are your technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

If you have any questions or concerns, please contact me at hmaleki@caro.ca

Authorized By:

Helen Maleki, Dipl T Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB TSS 1H7

Caring About Results, Obviously.

Page 1 of 4



Surrogate: 2-Methylnonane (EPH/F2-4)

TEST RESULTS

REPORTED TO ALARA Environmental I PROJECT 99100 - 3235 Quesnel	Health and Safety		WORK ORDER REPORTED	8072692 2018-08-0	3 10:10
Analyte	Result	RL	Units	Analyzed	Qualifie
99100-1 (8072692-01) Matrix: Soil Samp	oled: 2018-07-25				
General Parameters					
Moisture	28.5	1.0	% wet	2018-08-01	
BCMOE Aggregate Hydrocarbons					
EPHs10-19	140	50	mg/kg dry	2018-08-02	
EPHs19-32	78		mg/kg dry	2018-08-02	
Surrogate: 2-Methylnonane (EPH/F2-4)	88	60-140	%	2018-08-02	
General Parameters				2012 20 21	
Moisture	9.6	1.0	% wet	2018-08-01	
BCMOE Aggregate Hydrocarbons					
EPHs10-19	590	50	mg/kg dry	2018-08-02	
EPHs19-32	170	50	mg/kg dry	2018-08-02	
Surrogate: 2-Methylnonane (EPH/F2-4)	90	60-140	%	2018-08-02	
99100-3 (8072692-03) Matrix: Soil Samp	oled: 2018-07-25				
General Parameters	1.50			1 10	
Moisture	9.7	1.0	% wet	2018-08-01	
BCMOE Aggregate Hydrocarbons					
EPHs10-19	1300	50	mg/kg dry	2018-08-02	
EPHs19-32	320	50	mg/kg dry	2018-08-02	
	122	227002	20		

60-140 %

95

2018-08-02



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO ALARA Environmental Health and Safety

99100 - 3235 Quesnel PROJECT

WORK ORDER

8072692

REPORTED

2018-08-03 10:10

Analysis Description	Method Ref.	Technique	Location
EPH in Soil	EPA 3570" / BCMOE EPHs"	Shaker Extraction (Hexane-Acetone 1:1) / Gas Chromatography (GC-FID)	Richmond
Moisture in Soil	ASTM D2974-87*	Gravimetry (Dried at 105C)	N/A

Glossary of Terms:

RL Reporting Limit (default) % wet Percent (as received basis)

mg/kg dry Milligrams per kilogram (dry weight basis) ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT

REPORTED TO ALARA Environmental Health and Safety

99100 - 3235 Quesnel

WORK ORDER

8072692

REPORTED

2018-08-03 10:10

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (Blk): A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- Duplicate (Dup): An additional or second portion of a randomly selected sample in the analytical run carried through the entire
 analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.

also

- Matrix Spike (MS): A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.
 Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
BCMOE Aggregate Hydrocarbons, Bato	h B8H0143								
Blank (B8H0143-BLK1)			Prepared	: 2018-08-0	2, Analyze	d: 2018-	08-02		
EPHs10-19	< 50	50 mg/kg wet							
EPHs19-32	< 50	50 mg/kg wet							
Surrogate: 2-Methylnonane (EPH/F2-4)	14.5	mg/kg wet	16.3		89	50-140			
LCS (B8H0143-B\$2)			Prepared	1: 2018-08-0	2, Analyze	d: 2018-0	08-02		
EPHs10-19	2300	50 mg/kg wet	2800		82	70-130			
EPHs19-32	3100	50 mg/kg wet	4050		76	70-130			
Surrogate: 2-Methylnonane (EPH/F2-4)	14.5	mg/kg wet	16.2		90	50-140			
Reference (B8H0143-SRM1)			Prepared	1: 2018-08-0	2, Analyze	d: 2018-0	08-02		



Unit 120, 8600 Glenlyon Parkway Burnaby, British Columbia CANADA V5J 0B6 TEL (778)452-4000 FAX (778)452-4074 nttp://www.agatlabs.com

CLIENT NAME: ALARA ENVIRONMENTAL HEALTH & SAFETY 3869 COMMERCIAL STREET VANCOUVER, BC V5N4G1 (604) 724-2331

ATTENTION TO: STEVEN SEEWALD

PROJECT: 3235 Quesnel St

AGAT WORK ORDER: 18V402058

TRACE ORGANICS REVIEWED BY: Dana Solari, Lab Reporter

DATE REPORTED: Oct 31, 2018

PAGES (INCLUDING COVER): 6 VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES	CARCIN CONTRACTOR CONT	
VERSION 1:	Sample receipt temperature 5°C.	

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

Western Enviro-Agricultural Laboratory Association (WEALA) Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.



CLIENT NAME: ALARA ENVIRONMENTAL HEALTH & SAFETY

Certificate of Analysis

AGAT WORK ORDER: 18V402058 PROJECT: 3235 Quesnel St

ATTENTION TO: STEVEN SEEWALD

Unit 120, 8600 Gleniyon Parkway Burnaby, British Columbia CANADA V5J 0B6 TEL (778)452-4000 FAX (778)452-4074 http://www.agatlabs.com

9653988

					SA	AMPLED BY:	
				EPH Soil			
							DATE REPORTED: 2018-10-29
S	AMPLE DESCR	RIPTION: #	101-W				
	SAMPL	LE TYPE:	Soll				
	DATE SA	AMPLED: 201	8-10-24				
Unit	GIS	RDL 96	53988				
µg/g		20	×20				
µg/g		20	21				
	Unit Pg/g	SAMPLE DESC SAMPI DATE SI Unit G / S 199	SAMPLE DESCRIPTION: # SAMPLE TYPE: DATE SAMPLED: 201 Unit G/S RDL 96	\$AMPLE DESCRIPTION: #01-W \$AMPLE TYPE: \$0II DATE \$AMPLED: 2018-10-24 Unit G / \$ RDL 9653988 #9/9 20 <20	SAMPLE DESCRIPTION: #01-W SAMPLE TYPE: Soli DATE SAMPLED: 2018-10-24 Unit G / S RDL 9653986 #9/9 20 <20	SAMPLE DESCRIPTION: #01-W SAMPLE TYPE: SOII DATE SAMPLED: 2018-10-24 Unit G / S RDL 9653988 #9/9 20 <20	#01-W SAMPLE DESCRIPTION: #01-W SAMPLE TYPE: Soli DATE SAMPLED: 2018-10-24 Unit G/S RDL 9653986 µg/g 20 <20

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

Results are based on dry weight of sample.

EPH results are not corrected for potential PAH contributions.

Soll sample is visibly heterogeneous.

Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:





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Quality Assurance

CLIENT NAME: ALARA ENVIRONMENTAL HEALTH & SAFETY

AGAT WORK ORDER: 18V402058 ATTENTION TO: STEVEN SEEWALD

PROJECT: 3235 Quesnel St

SAMPLED BY:

SAMPLING SITE:

			Trac	e Or	gani	cs A	nalys	is							
RPT Date:				DUPLICATE			REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup#1	Dup #2	RPD	Method Blank	Measured Value			Recovery	Acceptable Limits		Recover	Acceptable Limits	
		ld	55.107.35%	100000	000000000000000000000000000000000000000			Lower	Upper		Lower	Upper	112	Lower	Uppe
EPH Soll	10.			10		178.0	89					0		7	
EPH C10-C19	70124	9651129	<20	<20	NA	< 20	94%	70%	130%				119%	65%	1205
EPH C19-C32	70124	9651129	≠20	<20	NA	< 20	100%	70%	130%				114%	80%	1205

Comments: RPDs are calculated using raw analytical data and not the rounded duplicale values reported.

Certified By:



AGAT QUALITY ASSURANCE REPORT (VI)

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AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canadia (SCC) for specific tests listed on the scape of accreditation. AGAT Laboratories (Misstssauga) is also accredited by the Canadian Association for Laboratory Accreditation inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.



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Method Summary

CLIENT NAME: ALARA ENVIRONMENTAL HEALTH & SAFETY

PROJECT: 3235 Quesnel St

SAMPLING SITE

AGAT WORK ORDER: 18V402058 ATTENTION TO: STEVEN SEEWALD

SAMPLED BY:

		14					
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE				
Trace Organics Analysis							
EPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID				
EPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID				

	AGA1	Lab	oratories	P: 778.452.4000	00 Gleniyon Pari Burnaby V5J 0 • F: 778.452.4	BC 086	Arrival Temp AGAT Job N Notes:	perature	•	1020	35	ъ
Company: All Contact: Address: Phone LSD:	tion ANDA (INV H & S Chms Chms Van 184 USU 9328 Fax	*1	2. Name: SWV.	is O magarenvia on menom. O alura environ menom	Report Form Single Sample Sample page Multiple Samples page Excel For	per	Turnaround Regular TAT Rush TAT	□ 5 to 1 □ Day 2 □ Day 3 □ Day 4	7 working 0 2 - 100% 3 - 50%			
Client Project #: Invoice To Company: Contact: Address:	Same as above t	St / Yes No CI	BC CSR Soil AL IL IPL CL RL-LD RL-HD WL-N WL-R Schiedule 3.3 //wesse 5 Other /Proses S	Soecity)	HdD		PLEASE CON SUBMIS	TRACT UNBOR	MATORY IF MUS	ALE CONTAINERS	OY 3 i	PM (AS
LABORATORY USE (LAB (D.M)	SAMPLE IDENTIFICATION #DI ~ W	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	×					NUMBER D	PRESERVED (Y/N)	HAZARDOUS (Y/NI Hold for [] 60 DA
Cange Contract of the State of	menter fet for	Sens/Time	Samples Recognit St.	Her large sail	Date/Time				Page_	0	ř_	
Senana Ronnyawasi Ba (Pen)	aread Sgr.	seaes on g	Samuel Rootned by	(Fire fore and Fig.)	Obea/Tone				No:	031	47	24





SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 18 14 020 58

Received From: Novex # 3	Waybill #:
SAMPLE QUANTITIES: Coolers: Containers: \	
TIME SENSITIVE Issues; Earliest Date Sampled:	ALREADY EXCEEDED? Yes (No)
sample (U s) fuse jars when available	ch cooler. (record differing temperatures on the CoC next to "C (3)+ _ + _ = _ °C (4) _ + _ + _ = _ °C
Account Project Manager;	have they been notified of the above issues: Yes No Date and Time:
ADDITIONAL NOTES:	Date and Time.

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