



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: COLIN DUNN CONSULTING INC.
8756 PENDER PARK DRIVE
NORTH SAANICH BC V8L 3Z5

Page: 1
Total # Pages: 3 (A)
Plus Appendix Pages
Finalized Date: 31-MAY-2019
Account: CODUCO

QC CERTIFICATE VA19111420

Project: Research-Collaborative w/ALS

This report is for 157 Vegetation samples submitted to our lab in Vancouver, BC, Canada on 9-MAY-2019.

The following have access to data associated with this certificate:

COLIN DUNN

DAVE HEBERLEIN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-HAL01a	Super Trace Halogens on Vegetation

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: COLIN DUNN CONSULTING INC.
 8756 PENDER PARK DRIVE
 NORTH SAANICH BC V8L 3Z5

Page: 2 - A
 Total # Pages: 3 (A)
 Plus Appendix Pages
 Finalized Date: 31-MAY-2019
 Account: CODUCO

Project: Research-Collaborative w/ALS

QC CERTIFICATE OF ANALYSIS VA19111420

Sample Description	Method Analyte Units LOD	ME-HAL01a	ME-HAL01a	ME-HAL01a	ME-HAL01a
		I	Br	F	Cl
		ppm	ppm	ppm	ppm
		0.002	0.02	0.05	0.1
STANDARDS					
OREAS-25a		0.128	10.25	0.40	31.3
OREAS-25a		0.131	11.00	0.41	31.1
OREAS-25a		0.143	11.30	<0.05	32.7
OREAS-25a		0.127	10.55	<0.05	30.4
OREAS-25a		0.169	10.65	0.26	30.0
Target Range - Lower Bound		0.129	10.45	<0.05	27.3
Upper Bound		0.163	12.80	0.10	33.5
VEG4a		4.29	57.4	16.95	6500
VEG4a		4.14	52.9	16.70	4890
Target Range - Lower Bound		3.61	45.5	16.55	4980
Upper Bound		4.42	55.7	20.3	6090
VEG8a		0.149	57.1	12.05	4500
VEG8a		0.137	51.6	12.70	3800
VEG8a		0.141	53.2	13.35	3690
Target Range - Lower Bound		0.112	42.8	12.05	3330
Upper Bound		0.142	52.4	14.85	4070
BLANKS					
BLANK		0.004	0.03	<0.05	<0.1
BLANK		0.003	<0.02	<0.05	<0.1
BLANK		0.005	0.02	<0.05	<0.1
BLANK		0.003	<0.02	<0.05	<0.1
BLANK		0.002	0.03	<0.05	<0.1
Target Range - Lower Bound		<0.002	<0.02	<0.05	<0.1
Upper Bound		0.004	0.04	0.10	0.2
DUPLICATES					
1154		0.040	1.27	100.5	2600
DUP		0.031	1.31	77.1	2150
Target Range - Lower Bound		0.032	1.21	84.3	2260
Upper Bound		0.039	1.37	93.3	2490



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: COLIN DUNN CONSULTING INC.
 8756 PENDER PARK DRIVE
 NORTH SAANICH BC V8L 3Z5

Page: 3 - A
 Total # Pages: 3 (A)
 Plus Appendix Pages
 Finalized Date: 31-MAY-2019
 Account: CODUCO

Project: Research-Collaborative w/ALS

QC CERTIFICATE OF ANALYSIS VA19111420

Sample Description	Method Analyte Units LOD	ME-HAL01a	ME-HAL01a	ME-HAL01a	ME-HAL01a
		I	Br	F	Cl
		ppm	ppm	ppm	ppm
		0.002	0.02	0.05	0.1
		DUPLICATES			
1190		0.035	2.80	51.5	997
DUP		0.035	1.88	50.9	996
Target Range - Lower Bound		0.031	2.20	48.6	947
Upper Bound		0.039	2.48	53.8	1045
1226		0.088	1.68	97.3	2380
DUP		0.082	1.89	102.0	2600
Target Range - Lower Bound		0.079	1.68	94.6	2370
Upper Bound		0.091	1.89	104.5	2610
1262		0.013	0.09	110.0	21.7
DUP		0.011	0.10	78.5	52.9
Target Range - Lower Bound		0.009	0.07	89.5	35.3
Upper Bound		0.015	0.12	99.0	39.3
1298		0.056	1.55	58.5	801
DUP		0.047	1.58	51.9	800
Target Range - Lower Bound		0.047	1.47	52.4	760
Upper Bound		0.056	1.66	58.0	841



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: COLIN DUNN CONSULTING INC.
8756 PENDER PARK DRIVE
NORTH SAANICH BC V8L 3Z5

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 31-MAY-2019
Account: CODUCO

Project: Research-Collaborative w/ALS

QC CERTIFICATE OF ANALYSIS VA19111420

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-23 ME-HAL01a WEI-21