



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: 30-MAY-2019  
Account: CODUCO

**QC CERTIFICATE VA19111401**

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



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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
<b>STANDARDS</b>					
OREAS-25a		0.124	11.30	<0.05	40.5
OREAS-25a		0.132	11.00	<0.05	35.9
OREAS-25a		0.145	10.90	0.11	33.0
OREAS-25a		0.137	11.55	0.18	31.2
OREAS-25a		0.128	10.25	0.40	31.3
Target Range - Lower Bound		0.129	10.45	<0.05	27.3
Upper Bound		0.163	12.80	0.10	33.5
VEG4a		4.47	61.6	18.40	6400
VEG4a		4.46	56.7	16.80	5900
Target Range - Lower Bound		3.61	45.5	16.55	4980
Upper Bound		4.42	55.7	20.3	6090
VEG8a		0.152	58.4	12.90	4600
VEG8a		0.146	51.4	12.95	3770
VEG8a		0.149	57.1	12.05	4500
Target Range - Lower Bound		0.112	42.8	12.05	3330
Upper Bound		0.142	52.4	14.85	4070
<b>BLANKS</b>					
BLANK		0.003	0.04	<0.05	0.1
BLANK		0.002	0.03	<0.05	0.4
BLANK		0.003	<0.02	<0.05	<0.1
BLANK		0.003	0.03	<0.05	<0.1
BLANK		0.004	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
<b>DUPLICATES</b>					
1010		0.106	91.1	<0.05	406
DUP		0.105	96.7	<0.05	407
Target Range - Lower Bound		0.098	89.2	<0.05	386
Upper Bound		0.113	98.6	0.10	427



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		I	Br	F	Cl
		ppm	ppm	ppm	ppm
		0.002	0.02	0.05	0.1
		DUPLICATES			
1046		0.021	1.09	32.5	300
DUP		0.020	1.08	36.4	302
Target Range - Lower Bound		0.017	1.01	32.7	286
Upper Bound		0.024	1.16	36.2	316
1082		0.027	1.41	36.9	794
DUP		0.021	1.42	39.4	698
Target Range - Lower Bound		0.021	1.32	36.2	709
Upper Bound		0.027	1.51	40.1	783
1118		0.113	7.78	73.9	4900
DUP		0.103	7.50	69.5	4400
Target Range - Lower Bound		0.101	7.24	68.1	4420
Upper Bound		0.115	8.04	75.3	4880
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



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## 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