



ALS Canada Ltd.  
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www.alsglobal.com/geochemistry

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Page: 1  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 7-NOV-2019  
Account: TRUPTD

## QC CERTIFICATE WH19244837

Project: Portland (PTD)

P.O. No.: 3247

This report is for 14 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

JORDAN BUTLER

GREG DAWSON

JEAN PAUTLER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32m	Pulverize 500g - 85%<75um
BAG-01	Bulk Master for Storage

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS

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:

Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
 Total # Pages: 5 (A - C)  
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**QC CERTIFICATE OF ANALYSIS WH19244837**

Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
<b>STANDARDS</b>																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
CDN-CM-34				3.8	2.42	109	<10	120	<0.5	5	1.42	1.1	42	186	6030	4.45
Target Range - Lower Bound				3.1	2.14	93	<10	70	<0.5	<2	1.20	<0.5	36	164	5390	3.91
Upper Bound				4.3	2.64	118	30	140	1.4	8	1.49	2.0	46	202	6210	4.80
CDN-ME1810			4.39													
CDN-ME1810			4.27													
Target Range - Lower Bound			4.10													
Upper Bound			4.72													
EMOG-17				70.8	1.59	609	<10	40	<0.5	9	0.99	20.0	773	47	8560	4.73
Target Range - Lower Bound				60.1	1.45	520	<10	30	<0.5	<2	0.87	17.9	679	42	7780	4.18
Upper Bound				73.9	1.79	640	20	80	1.5	10	1.09	22.9	833	54	8960	5.14
G313-5		7.07														
G313-5		7.18														
Target Range - Lower Bound		6.64														
Upper Bound		7.50														
G915-7			12.35													
G915-7			12.35													
Target Range - Lower Bound			11.60													
Upper Bound			13.15													
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
GMO-12																
Target Range - Lower Bound																
Upper Bound																
KIP-19		2.47														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
KIP-19			2.51													
Target Range - Lower Bound			2.23													
Upper Bound			2.63													



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Page: 2 - B  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
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**QC CERTIFICATE OF ANALYSIS WH19244837**

Sample Description	Method Analyte Units LOD	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
STANDARDS																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
CDN-CM-34		10	<1	1.22	10	2.61	309	279	0.11	232	1170	22	3.04	4	9	103
Target Range - Lower Bound		<10	<1	1.06	<10	2.27	269	245	0.08	204	1050	18	2.70	<2	8	92
Upper Bound		30	2	1.32	30	2.80	340	301	0.13	252	1310	28	3.32	9	13	115
CDN-ME1810																
CDN-ME1810																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		<10	1	0.68	20	0.81	652	1070	0.16	7900	770	7420	3.15	713	5	52
Target Range - Lower Bound		<10	<1	0.60	<10	0.69	598	970	0.15	6930	680	6500	2.90	572	3	47
Upper Bound		30	3	0.76	40	0.87	742	1190	0.20	8470	850	7950	3.56	778	7	59
G313-5																
G313-5																
Target Range - Lower Bound																
Upper Bound																
G915-7																
G915-7																
Target Range - Lower Bound																
Upper Bound																
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
GMO-12																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																



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Page: 2 - C  
 Total # Pages: 5 (A - C)  
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<b>STANDARDS</b>										
CCU-1e									0.689	
Target Range - Lower Bound										
Upper Bound										
CDN-CM-34		<20	0.18	<10	<10	108	10	183		0.63
Target Range - Lower Bound		<20	0.15	<10	<10	95	<10	159		
Upper Bound		40	0.21	20	20	118	30	199		
CDN-ME1810										
CDN-ME1810										
Target Range - Lower Bound										
Upper Bound										
EMOG-17		<20	0.22	<10	<10	64	<10	7560		1.26
Target Range - Lower Bound		<20	0.18	<10	<10	58	<10	6780		1.18
Upper Bound		50	0.25	20	20	74	20	8290		1.46
G313-5										
G313-5										
Target Range - Lower Bound										
Upper Bound										
G915-7										
G915-7										
Target Range - Lower Bound										
Upper Bound										
GBM903-13									2.09	
Target Range - Lower Bound									2.07	
Upper Bound									2.23	
GMO-12									0.003	
Target Range - Lower Bound										
Upper Bound										
KIP-19										
Target Range - Lower Bound										
Upper Bound										
KIP-19										
Target Range - Lower Bound										
Upper Bound										



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Page: 3 - A  
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<b>STANDARDS</b>																
MGeo08				5.0	2.56	33	10	450	0.8	2	1.06	2.3	18	94	654	3.61
Target Range - Lower Bound				3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22
Upper Bound				5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96
OREAS 252	0.678															
Target Range - Lower Bound	0.629															
Upper Bound	0.719															
OREAS 501b				0.7	2.13	22	10	410	0.5	6	1.05	<0.5	15	93	2890	4.35
Target Range - Lower Bound																
Upper Bound																
OREAS 604				>100	0.73	1040	<10	20	<0.5	35	0.61	15.6	44	34	>10000	2.81
Target Range - Lower Bound				443		867		<10	<0.5	22	0.52	13.5	37		20100	
Upper Bound				100.0		1065		20	1.3	32	0.66	17.6	48		>10000	
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
PMP-18	0.299															
PMP-18	0.312															
Target Range - Lower Bound	0.285															
Upper Bound	0.331															
SQ48			30.2													
Target Range - Lower Bound			28.4													
Upper Bound			32.1													
<b>BLANKS</b>																
BLANK	<0.005															
BLANK	<0.005															
BLANK	<0.005															
Target Range - Lower Bound	<0.005															
Upper Bound	0.010															
BLANK			<0.05													
BLANK			<0.05													
BLANK			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
BLANK				<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
Target Range - Lower Bound				<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
Upper Bound				0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02
BLANK																
Target Range - Lower Bound																
Upper Bound																



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Page: 3 - A  
Total # Pages: 5 (A - C)  
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Sample Description	Method Analyte Units LOD	



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Page: 3 - B  
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<b>STANDARDS</b>																
MRGeo08		10	<1	1.27	30	1.17	413	14	0.32	714	1010	1080	0.29	3	7	74
Target Range - Lower Bound		<10	<1	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71
Upper Bound		30	2	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 501b		10	<1	1.17	30	1.30	415	101	0.17	42	1100	12	0.38	<2	7	63
Target Range - Lower Bound																
Upper Bound																
OREAS 604		10	1	0.16	10	0.10	221	5	0.04	671	230	702	4.09	138	1	36
Target Range - Lower Bound		<10	<1		<10			2		584		631		105	<1	33
Upper Bound		30	3		30			6		716		775		147	2	42
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
SQ48																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<10	<1	<0.01	<10	<0.01	<5	<1	0.01	<1	<10	<2	<0.01	<2	<1	<1
Target Range - Lower Bound		<10	<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1
Upper Bound		20	2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2
BLANK																
Target Range - Lower Bound																
Upper Bound																



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Page: 3 - B  
Total # Pages: 5 (A - C)  
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Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
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<b>STANDARDS</b>										
MGeo08		20	0.39	<10	<10	103	<10	776		0.04
Target Range - Lower Bound		<20	0.33	<10	<10	90	<10	708		<0.01
Upper Bound		60	0.43	20	30	112	20	870		0.04
OREAS 252										
Target Range - Lower Bound										
Upper Bound										
OREAS 501b		20	0.38	<10	<10	121	<10	88		0.09
Target Range - Lower Bound										0.05
Upper Bound										0.10
OREAS 604		<20	0.01	10	<10	9	<10	2500		26.0
Target Range - Lower Bound		<20	<0.01	<10	<10		<10			22.8
Upper Bound		40	0.03	30	20		20			27.8
OREAS 621									1.325	
Target Range - Lower Bound									1.310	
Upper Bound									1.410	
PMP-18										
PMP-18										
Target Range - Lower Bound										
Upper Bound										
SQ48										
Target Range - Lower Bound										
Upper Bound										
<b>BLANKS</b>										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK		<20	<0.01	<10	<10	<1	<10	<2		<0.01
Target Range - Lower Bound		<20	<0.01	<10	<10	<1	<10	<2		<0.01
Upper Bound		40	0.02	20	20	2	20	4		0.02
BLANK									<0.001	
Target Range - Lower Bound									<0.001	
Upper Bound									0.002	



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DUPLICATES																
ORIGINAL			<0.05													
DUP			0.07													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
ORIGINAL			<0.05													
DUP			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL			<0.05													
DUP			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
ORIGINAL			3.87													
DUP			4.01													
Target Range - Lower Bound			3.69													
Upper Bound			4.19													
ORIGINAL			<0.05													
DUP			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
ORIGINAL			<0.05													
DUP			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													



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ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
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ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES									
ORIGINAL DUP Target Range - Lower Bound Upper Bound										
ORIGINAL DUP Target Range - Lower Bound Upper Bound										
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Page: 5 - A  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 7-NOV-2019  
 Account: TRUPTD

Project: Portland (PTD)

**QC CERTIFICATE OF ANALYSIS WH19244837**

Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
DUPLICATES																
1817467				1.3	1.11	<2	<10	290	0.6	<2	0.24	<0.5	7	8	36	2.09
DUP				1.3	1.13	<2	<10	300	0.6	<2	0.25	<0.5	7	7	37	2.11
Target Range - Lower Bound				1.0	1.05	<2	<10	260	<0.5	<2	0.22	<0.5	6	6	34	1.99
Upper Bound				1.6	1.19	4	20	330	1.0	4	0.27	1.0	8	9	39	2.22
1817470		0.146														
DUP		0.111														
Target Range - Lower Bound		0.117														
Upper Bound		0.140														
ORIGINAL		0.130														
DUP		0.131														
Target Range - Lower Bound		0.119														
Upper Bound		0.142														
ORIGINAL		0.005														
DUP		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.138														
DUP		0.138														
Target Range - Lower Bound		0.126														
Upper Bound		0.150														



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Page: 5 - B  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 7-NOV-2019  
 Account: TRUPTD

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**QC CERTIFICATE OF ANALYSIS WH19244837**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
		DUPLICATES														
1817467		<10	<1	0.40	30	0.45	583	2	0.04	7	340	16	<0.01	<2	3	10
DUP		<10	<1	0.40	30	0.46	608	2	0.04	6	350	15	<0.01	<2	3	9
Target Range - Lower Bound		<10	<1	0.37	20	0.42	561	<1	0.03	5	320	13	<0.01	<2	2	8
Upper Bound		20	2	0.43	40	0.49	630	3	0.05	8	370	18	0.02	4	4	11
1817470																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
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ORIGINAL																
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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 7-NOV-2019  
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**QC CERTIFICATE OF ANALYSIS WH19244837**

Sample Description	Method Analyte Units LOD	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Pb-OG46 Pb % 0.001	ME-MS42 Te ppm 0.01
DUPLICATES										
1817467		<20	0.03	<10	<10	20	10	77		0.46
DUP		<20	0.03	<10	<10	20	10	78		0.44
Target Range - Lower Bound		<20	0.02	<10	<10	18	<10	72		0.42
Upper Bound		40	0.04	20	20	22	20	83		0.48
1817470										
DUP										
Target Range - Lower Bound										
Upper Bound										
ORIGINAL										
DUP										
Target Range - Lower Bound										
Upper Bound										
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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 7-NOV-2019  
Account: TRUPTD

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**QC CERTIFICATE OF ANALYSIS WH19244837**

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	BAG-01	CRU-31	CRU-QC
	PUL-32m	PUL-QC	SPL-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA23	Au-GRA21	ME-ICP41
	ME-OG46	Pb-OG46	