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Finalized Date: 9-JUL-2019  
Account: TRUGRO

**CERTIFICATE WH19154019**

Project: JPR  
P.O. No.: 1772  
This report is for 37 Rock samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2019.

The following have access to data associated with this certificate:

GREG DAWSON  
ANDREW HAMILTON

ISAAC FAGE  
BEN MCGRATH

JODIE GIBSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
Au-AA23	Au 30g FA-AA finish	AAS

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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**CERTIFICATE OF ANALYSIS WH19154019**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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
1625930		0.86	<0.005	<0.2	1.71	7	<10	170	0.6	<2	2.28	<0.5	8	4	6	3.58
1625931		0.55	0.007	<0.2	1.42	7	<10	130	<0.5	<2	0.39	<0.5	8	3	10	2.89
1625932		0.65	<0.005	<0.2	1.46	4	<10	210	0.6	<2	2.63	0.5	8	4	6	3.74
1625933		1.01	0.040	<0.2	1.29	9	<10	150	<0.5	<2	2.34	<0.5	8	2	5	2.71
1625934		1.12	<0.005	<0.2	1.52	3	<10	150	<0.5	2	0.75	<0.5	9	4	2	2.62
1625935		0.91	0.007	<0.2	1.05	5	<10	90	<0.5	<2	0.97	<0.5	7	5	4	2.47
1625936		0.68	<0.005	<0.2	1.46	5	<10	90	<0.5	<2	0.39	<0.5	6	3	8	2.07
1625937		1.00	0.071	0.2	1.21	6	<10	130	<0.5	2	0.47	<0.5	7	4	9	2.15
1625938		0.86	0.011	<0.2	1.03	5	<10	160	<0.5	<2	1.33	<0.5	6	5	7	1.89
1625939		0.99	0.025	<0.2	1.31	3	<10	170	<0.5	<2	0.25	<0.5	7	6	6	2.34
1625940		0.90	0.016	<0.2	1.41	2	<10	120	<0.5	<2	0.21	<0.5	7	5	5	2.52
1625941		0.61	<0.005	<0.2	1.43	2	<10	90	<0.5	<2	0.32	<0.5	8	5	5	2.48
1625942		0.80	0.006	<0.2	1.39	3	<10	90	<0.5	<2	0.31	<0.5	7	5	2	2.37
1625943		1.15	0.008	<0.2	1.49	3	<10	80	<0.5	<2	0.40	<0.5	9	5	4	2.40
1625944		0.96	1.255	0.7	0.58	20	<10	90	<0.5	<2	0.14	<0.5	7	5	10	2.07
1625945		1.25	0.030	<0.2	1.40	3	<10	100	<0.5	<2	0.34	<0.5	8	6	3	2.58
1625946		0.83	0.005	<0.2	1.62	2	<10	100	<0.5	<2	0.38	<0.5	9	5	3	2.61
1625947		0.99	0.088	<0.2	1.05	6	<10	40	<0.5	<2	2.72	<0.5	7	3	3	2.02
1625948		1.07	0.095	0.2	1.00	6	<10	40	1.1	<2	1.22	<0.5	10	2	7	1.43
1625949		1.31	0.010	<0.2	1.19	4	<10	90	<0.5	<2	0.24	<0.5	6	4	6	2.18
1625950		0.88	0.017	<0.2	1.07	9	<10	150	<0.5	<2	0.17	<0.5	7	5	2	2.06
1625951		0.91	0.014	<0.2	1.11	3	<10	100	<0.5	<2	0.27	<0.5	5	7	13	1.98
1625952		0.75	<0.005	<0.2	1.80	<2	<10	110	<0.5	<2	0.52	<0.5	8	5	3	2.89
1625953		0.94	0.007	<0.2	1.22	3	<10	110	<0.5	<2	0.21	<0.5	5	5	4	2.20
1625954		0.86	<0.005	<0.2	1.39	2	<10	90	<0.5	<2	0.29	<0.5	6	5	3	2.39
1625955		0.83	<0.005	<0.2	1.46	<2	<10	90	<0.5	<2	0.32	<0.5	7	5	5	2.58
1625956		0.85	<0.005	<0.2	1.44	3	<10	80	<0.5	<2	0.29	<0.5	7	5	9	2.64
1625957		0.66	<0.005	<0.2	1.41	<2	<10	70	<0.5	<2	0.24	<0.5	6	5	4	2.44
1625958		0.83	0.008	<0.2	1.29	2	<10	90	<0.5	<2	0.25	<0.5	5	5	4	2.32
1625959		0.67	<0.005	<0.2	1.47	<2	<10	70	<0.5	<2	0.40	<0.5	6	5	3	2.26
1625960		0.59	<0.005	<0.2	1.61	2	<10	120	<0.5	<2	0.31	<0.5	7	5	7	2.67
1625961		0.73	0.005	<0.2	1.53	3	<10	90	<0.5	<2	0.35	<0.5	7	5	5	2.32
1625962		0.84	0.014	<0.2	0.96	2	<10	50	<0.5	<2	0.28	<0.5	6	6	3	2.35
1625963		0.87	0.005	<0.2	0.98	<2	<10	70	<0.5	<2	0.17	<0.5	6	5	8	2.18
1625964		0.62	<0.005	<0.2	1.58	<2	<10	120	<0.5	<2	0.21	<0.5	7	6	13	2.99
1625965		0.73	<0.005	<0.2	1.50	<2	<10	80	<0.5	<2	0.33	<0.5	7	4	4	2.69
1625966		0.79	<0.005	<0.2	1.53	2	<10	110	<0.5	<2	0.40	<0.5	6	5	8	2.46



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**CERTIFICATE OF ANALYSIS WH19154019**

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
1625930		<10	<1	0.08	20	0.24	965	1	0.09	4	1470	11	<0.01	<2	6	114
1625931		<10	<1	0.47	30	0.36	770	1	0.07	1	660	7	<0.01	<2	5	38
1625932		<10	<1	0.10	20	0.20	1500	1	0.09	3	1450	9	<0.01	<2	6	97
1625933		<10	<1	0.30	20	0.25	1110	2	0.05	1	700	7	<0.01	<2	4	70
1625934		10	<1	0.87	20	0.64	675	<1	0.07	1	380	<2	<0.01	<2	5	28
1625935		<10	<1	0.31	20	0.33	629	1	0.06	2	330	4	<0.01	<2	4	28
1625936		<10	<1	0.60	30	0.42	572	<1	0.05	1	310	3	<0.01	<2	4	22
1625937		<10	<1	0.70	20	0.42	656	<1	0.07	1	350	3	0.01	<2	3	18
1625938		<10	<1	0.59	20	0.33	666	<1	0.05	<1	340	3	0.01	<2	2	42
1625939		<10	<1	0.73	20	0.51	624	<1	0.07	1	360	3	<0.01	<2	3	17
1625940		<10	<1	0.80	20	0.55	551	<1	0.07	1	350	<2	<0.01	<2	3	15
1625941		<10	<1	0.74	20	0.56	587	<1	0.07	2	340	<2	<0.01	<2	3	26
1625942		<10	<1	0.69	30	0.56	594	<1	0.06	1	370	2	<0.01	<2	3	22
1625943		10	<1	0.39	20	0.62	573	1	0.07	3	380	2	<0.01	<2	4	23
1625944		<10	<1	0.20	30	0.14	717	2	0.05	3	300	5	<0.01	<2	4	11
1625945		10	<1	0.46	30	0.58	585	1	0.06	3	390	4	<0.01	<2	3	26
1625946		<10	<1	0.88	20	0.72	643	<1	0.07	2	390	<2	<0.01	<2	3	24
1625947		<10	<1	0.50	20	0.36	689	<1	0.04	1	290	6	0.01	<2	4	88
1625948		<10	<1	0.40	30	0.16	445	1	0.03	1	330	6	0.01	<2	4	33
1625949		<10	<1	0.44	20	0.37	531	1	0.05	1	310	4	<0.01	<2	4	13
1625950		<10	<1	0.55	30	0.28	799	1	0.05	2	350	3	0.01	2	3	11
1625951		<10	<1	0.43	20	0.35	395	1	0.07	3	260	4	0.01	<2	3	19
1625952		10	<1	0.88	30	0.78	752	<1	0.08	1	480	5	0.02	<2	4	33
1625953		<10	<1	0.65	30	0.44	475	<1	0.06	2	320	6	0.03	<2	4	13
1625954		10	1	0.65	30	0.52	602	<1	0.06	1	310	<2	0.01	<2	4	19
1625955		10	<1	0.58	50	0.49	599	1	0.07	1	350	2	0.01	<2	5	22
1625956		10	<1	0.42	30	0.50	682	<1	0.06	1	350	2	0.01	2	6	17
1625957		10	<1	0.65	30	0.51	537	<1	0.06	2	310	3	0.01	<2	6	16
1625958		10	<1	0.59	30	0.46	494	1	0.07	1	320	4	0.02	<2	5	17
1625959		<10	<1	0.57	20	0.59	542	1	0.06	1	320	2	0.01	<2	2	30
1625960		10	<1	0.76	20	0.58	660	1	0.06	2	390	3	0.02	<2	4	20
1625961		10	<1	0.57	20	0.52	548	1	0.05	2	380	4	0.01	<2	4	20
1625962		<10	<1	0.24	20	0.34	440	1	0.10	2	320	2	0.01	<2	6	21
1625963		<10	<1	0.22	30	0.40	499	1	0.09	2	270	<2	0.02	<2	5	11
1625964		10	1	0.84	10	0.69	581	1	0.09	2	380	<2	0.01	<2	5	11
1625965		10	<1	0.80	10	0.67	622	1	0.07	1	360	<2	0.02	<2	4	18
1625966		<10	<1	0.70	20	0.63	598	<1	0.07	2	370	4	0.02	<2	3	25



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**CERTIFICATE OF ANALYSIS WH19154019**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS42
		Th	Ti	Ti	U	V	W	Zn	Te
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.01
1625930		<20	0.01	<10	<10	49	<10	77	0.01
1625931		<20	0.05	<10	<10	39	<10	58	0.01
1625932		<20	0.01	<10	<10	51	<10	79	0.01
1625933		<20	0.01	<10	<10	30	<10	71	0.02
1625934		<20	0.10	<10	<10	39	<10	56	0.01
1625935		<20	0.02	<10	<10	28	<10	43	<0.01
1625936		20	0.05	<10	<10	31	<10	42	<0.01
1625937		20	0.08	<10	<10	26	<10	43	0.04
1625938		<20	0.04	<10	<10	15	<10	35	<0.01
1625939		<20	0.08	<10	<10	28	<10	46	0.01
1625940		<20	0.10	<10	<10	34	<10	47	<0.01
1625941		<20	0.10	<10	<10	36	<10	49	0.01
1625942		<20	0.10	<10	<10	33	<10	50	<0.01
1625943		<20	0.05	<10	<10	35	<10	49	0.04
1625944		<20	0.01	<10	<10	28	<10	25	0.23
1625945		20	0.05	<10	<10	33	<10	52	0.01
1625946		<20	0.13	<10	<10	40	<10	51	<0.01
1625947		<20	0.05	<10	<10	31	<10	33	0.04
1625948		<20	0.01	<10	<10	17	<10	27	0.05
1625949		<20	0.04	<10	<10	27	<10	40	0.02
1625950		<20	0.05	<10	<10	27	<10	32	0.02
1625951		<20	0.05	<10	<10	26	<10	34	<0.01
1625952		20	0.14	<10	<10	45	<10	65	<0.01
1625953		<20	0.08	<10	<10	32	<10	38	0.01
1625954		<20	0.10	<10	<10	38	<10	43	<0.01
1625955		20	0.08	<10	<10	39	<10	48	<0.01
1625956		<20	0.06	<10	<10	47	<10	49	<0.01
1625957		<20	0.11	<10	<10	40	<10	44	<0.01
1625958		20	0.07	<10	<10	37	<10	44	0.01
1625959		<20	0.08	<10	<10	32	<10	43	<0.01
1625960		<20	0.09	<10	<10	39	<10	48	0.01
1625961		<20	0.05	<10	<10	35	<10	46	<0.01
1625962		<20	0.03	<10	<10	38	<10	43	<0.01
1625963		20	0.03	<10	<10	32	<10	45	<0.01
1625964		<20	0.13	<10	<10	51	<10	53	<0.01
1625965		<20	0.14	<10	<10	46	<10	49	<0.01
1625966		<20	0.10	<10	<10	36	<10	49	<0.01



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**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.	
	CRU-31	CRU-QC
	PUL-QC	SPL-21
		LOG-22
		WEI-21
		PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	Au-AA23	ME-ICP41
		ME-MS42