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Finalized Date: 26-JUN-2019
Account: TRUGRO

CERTIFICATE WH19144541

Project: JPR
P.O. No.: 1507
This report is for 47 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14-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
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
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:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH19144541

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	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
1626118		0.68	0.01	0.3	1.22	<2	<10	200	0.5	<2	1.67	<0.5	8	3	9	3.00
1626119		0.79	0.01	0.4	1.52	<2	<10	100	<0.5	<2	4.39	<0.5	17	26	32	4.27
1626120		0.70	0.02	0.6	1.48	<2	<10	120	0.5	<2	3.59	<0.5	18	29	24	4.92
1626121		0.86	0.05	0.7	1.44	<2	<10	220	<0.5	2	2.45	<0.5	11	3	35	4.01
1626122		0.86	0.07	0.2	0.76	<2	<10	150	<0.5	<2	0.43	<0.5	6	4	11	2.26
1626123		0.85	0.07	<0.2	0.55	<2	<10	90	<0.5	<2	0.10	<0.5	4	7	11	1.42
1626124		0.86	0.10	0.3	0.60	<2	<10	80	<0.5	<2	0.10	<0.5	7	4	17	1.93
1626125		0.60	0.03	0.2	0.98	2	<10	120	<0.5	<2	0.19	<0.5	8	14	13	2.50
1626126		0.74	<0.01	0.3	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	8	0.06
1626127		0.68	0.13	0.2	0.55	<2	<10	100	<0.5	<2	1.22	<0.5	3	4	15	1.59
1626128		1.04	0.11	0.3	0.59	6	<10	110	<0.5	<2	0.21	0.6	3	4	19	2.06
1626129		0.86	0.57	0.5	0.71	3	<10	140	0.5	<2	0.90	0.9	6	3	11	2.22
1626130		0.71	<0.01	0.3	1.83	<2	<10	90	<0.5	<2	3.28	<0.5	17	11	13	4.75
1626131		0.88	<0.01	0.4	1.01	<2	<10	80	<0.5	<2	6.11	<0.5	13	8	17	3.90
1626132		0.65	0.02	<0.2	1.21	<2	<10	110	<0.5	<2	2.39	<0.5	14	9	10	4.14
1626133		0.76	0.01	0.3	0.84	<2	<10	170	<0.5	<2	5.02	<0.5	10	6	11	3.11
1626134		0.61	0.19	0.3	0.81	6	<10	90	<0.5	<2	0.15	0.9	5	5	11	1.88
1626135		0.73	0.12	0.4	0.87	14	<10	120	0.5	<2	0.18	0.9	7	8	17	2.19
1626136		0.73	0.35	0.6	0.67	78	<10	90	0.5	<2	0.12	1.3	6	8	18	2.06
1626137		0.60	0.06	0.4	0.85	7	<10	120	0.6	<2	0.13	<0.5	8	11	22	3.29
1626138		0.73	0.05	0.3	0.97	11	<10	160	0.7	<2	0.20	0.6	14	8	20	3.36
1626139		0.80	0.19	0.6	0.55	14	<10	70	<0.5	<2	0.11	0.6	5	4	18	1.90
1626140		0.76	0.06	0.2	0.64	159	<10	70	0.6	<2	0.11	0.7	6	3	15	2.03
1626141		0.73	0.09	0.2	0.68	7	<10	60	0.5	<2	0.18	2.0	8	5	14	2.30
1626142		0.75	0.05	0.2	0.76	4	<10	90	0.5	<2	0.16	1.1	6	4	11	1.82
1626143		0.81	0.01	<0.2	0.94	<2	<10	50	0.5	<2	0.62	<0.5	5	4	10	2.19
1626144		0.64	0.02	0.2	1.17	<2	<10	160	0.7	<2	0.25	<0.5	13	7	22	3.70
1626145		0.85	0.10	0.3	0.75	12	<10	100	<0.5	<2	0.14	0.9	4	7	17	1.64
1626146		0.81	0.53	0.4	0.65	38	<10	120	<0.5	<2	1.02	<0.5	5	4	8	1.76
1626147		1.00	0.14	0.3	1.07	9	<10	120	<0.5	<2	0.28	<0.5	6	6	7	1.96
1626148		0.83	0.04	0.2	0.64	20	<10	170	<0.5	<2	0.92	<0.5	6	4	4	2.26
1626149		0.89	<0.01	<0.2	1.27	<2	<10	70	<0.5	<2	0.89	<0.5	4	4	2	1.83
1626150		0.88	0.01	<0.2	1.20	<2	<10	70	<0.5	<2	0.34	<0.5	5	8	2	1.94
1625701		0.95	0.02	<0.2	0.60	3	<10	70	<0.5	<2	0.21	<0.5	2	8	3	1.19
1625702		0.82	0.02	<0.2	0.85	5	<10	110	<0.5	<2	0.17	<0.5	5	5	6	1.87
1625703		0.81	0.08	0.3	0.62	20	<10	110	0.5	<2	0.94	<0.5	4	4	16	1.65
1625704		0.86	0.03	<0.2	0.95	8	<10	70	<0.5	<2	0.11	<0.5	5	4	3	1.72
1625705		0.88	<0.01	<0.2	1.23	<2	<10	150	<0.5	<2	0.20	<0.5	5	4	3	1.95
1625706		0.85	<0.01	<0.2	0.95	<2	<10	110	<0.5	<2	0.15	<0.5	5	4	8	1.88
1625707		0.75	<0.01	<0.2	1.16	<2	<10	110	<0.5	<2	0.21	<0.5	5	4	3	1.89



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1626118		<10	<1	0.78	30	0.33	1115	4	0.03	3	290	5	<0.01	<2	4	41
1626119		<10	1	0.37	20	0.70	911	1	0.01	12	460	3	0.04	<2	8	76
1626120		<10	<1	0.75	20	0.40	1070	1	0.01	11	450	6	0.04	<2	8	66
1626121		10	<1	0.81	50	0.27	1520	2	0.01	2	250	14	<0.01	<2	2	53
1626122		<10	<1	0.43	40	0.11	913	3	0.03	4	440	14	0.01	<2	2	15
1626123		<10	<1	0.29	20	0.06	410	1	0.03	6	200	8	<0.01	<2	1	6
1626124		<10	<1	0.25	20	0.06	463	1	0.04	5	240	16	0.01	2	2	9
1626125		<10	<1	0.28	20	0.21	575	2	0.02	9	220	15	<0.01	2	4	11
1626126		<10	1	<0.01	<10	0.46	89	<1	<0.01	7	60	<2	<0.01	<2	<1	83
1626127		<10	<1	0.34	30	0.10	730	1	0.03	2	220	9	0.04	<2	2	27
1626128		<10	<1	0.39	40	0.07	324	1	0.03	3	350	14	0.12	<2	2	47
1626129		<10	1	0.38	30	0.06	796	8	0.02	2	240	16	0.03	<2	2	20
1626130		10	<1	1.08	20	0.83	1010	1	0.01	5	600	8	0.27	<2	13	43
1626131		<10	1	0.50	20	0.51	1360	1	0.02	4	520	19	0.16	<2	10	42
1626132		<10	<1	0.49	10	0.27	756	1	0.02	5	620	3	<0.01	<2	8	38
1626133		<10	1	0.31	20	0.14	1340	1	0.02	3	510	15	0.02	<2	6	66
1626134		<10	<1	0.41	20	0.19	472	3	0.03	4	270	53	0.01	<2	3	7
1626135		<10	1	0.28	30	0.12	590	6	0.02	8	300	75	<0.01	<2	3	11
1626136		<10	<1	0.24	20	0.06	539	19	<0.01	11	370	56	0.02	<2	3	15
1626137		<10	1	0.27	20	0.09	483	14	0.01	8	430	20	0.13	<2	9	25
1626138		<10	<1	0.29	20	0.11	1195	3	0.01	7	440	14	<0.01	<2	6	11
1626139		<10	<1	0.26	30	0.04	568	4	0.03	2	320	166	0.03	<2	3	9
1626140		<10	<1	0.24	20	0.04	646	3	<0.01	3	280	22	<0.01	<2	2	12
1626141		<10	<1	0.22	30	0.07	558	6	0.02	4	380	41	0.02	2	4	10
1626142		<10	<1	0.33	30	0.09	654	2	0.01	3	320	12	<0.01	<2	2	8
1626143		<10	<1	0.38	20	0.16	408	1	0.02	1	300	9	<0.01	<2	3	13
1626144		<10	<1	0.54	20	0.30	929	1	0.02	7	540	8	<0.01	<2	8	9
1626145		<10	<1	0.33	20	0.15	479	3	0.04	6	220	47	<0.01	<2	3	8
1626146		<10	<1	0.40	40	0.10	693	2	0.03	1	300	10	<0.01	<2	2	27
1626147		<10	<1	0.59	30	0.31	598	1	0.04	4	280	22	<0.01	<2	4	10
1626148		<10	<1	0.40	50	0.13	1480	2	0.04	3	310	8	0.01	<2	3	26
1626149		10	<1	0.50	30	0.30	436	1	0.03	2	290	3	<0.01	<2	4	20
1626150		<10	<1	0.50	30	0.40	467	1	0.05	3	280	3	<0.01	<2	4	16
1625701		<10	<1	0.27	20	0.12	400	1	0.02	1	160	2	<0.01	<2	2	6
1625702		<10	<1	0.38	30	0.21	617	1	0.03	2	290	5	<0.01	<2	4	8
1625703		<10	<1	0.28	30	0.08	750	1	0.01	1	240	33	<0.01	<2	2	11
1625704		<10	<1	0.50	20	0.24	365	<1	0.03	2	270	4	<0.01	<2	3	7
1625705		<10	<1	0.65	40	0.41	936	1	0.04	2	270	2	<0.01	<2	5	15
1625706		<10	<1	0.44	10	0.24	554	1	0.04	2	300	3	<0.01	<2	4	8
1625707		<10	<1	0.53	20	0.34	503	1	0.04	2	290	3	<0.01	<2	4	8



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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
1626118		<20	0.05	<10	<10	27	<10	52	<0.01
1626119		<20	0.02	<10	<10	53	<10	93	0.02
1626120		<20	0.05	<10	<10	50	<10	99	0.02
1626121		20	0.02	<10	<10	19	<10	38	0.04
1626122		<20	0.01	<10	<10	13	<10	42	0.01
1626123		<20	0.01	<10	<10	9	<10	26	0.01
1626124		<20	0.01	<10	<10	9	<10	40	0.02
1626125		<20	0.03	<10	<10	29	<10	47	0.02
1626126		<20	<0.01	<10	<10	<1	<10	2	0.01
1626127		<20	0.01	<10	<10	8	<10	22	0.01
1626128		<20	0.01	<10	<10	9	<10	39	0.01
1626129		20	<0.01	<10	<10	8	<10	52	<0.01
1626130		<20	0.09	<10	<10	95	<10	89	0.01
1626131		<20	0.03	<10	<10	66	<10	72	<0.01
1626132		<20	0.04	<10	<10	74	<10	81	<0.01
1626133		<20	0.01	<10	<10	44	<10	61	<0.01
1626134		<20	0.03	<10	<10	20	<10	78	0.01
1626135		<20	0.01	<10	<10	26	<10	92	0.01
1626136		<20	<0.01	<10	<10	21	<10	109	0.02
1626137		<20	0.01	<10	<10	67	<10	94	0.02
1626138		<20	0.01	<10	<10	47	<10	80	<0.01
1626139		<20	<0.01	<10	<10	22	<10	47	0.02
1626140		<20	<0.01	<10	<10	14	<10	54	0.01
1626141		<20	<0.01	<10	<10	26	<10	98	0.01
1626142		20	0.01	<10	<10	13	<10	47	<0.01
1626143		<20	0.02	<10	<10	25	<10	48	0.01
1626144		<20	0.04	<10	<10	56	<10	75	<0.01
1626145		<20	0.03	<10	<10	17	<10	60	<0.01
1626146		20	0.02	<10	<10	13	<10	30	<0.01
1626147		20	0.07	<10	<10	26	<10	63	<0.01
1626148		20	0.02	<10	<10	17	<10	37	<0.01
1626149		20	0.05	<10	<10	24	<10	35	<0.01
1626150		<20	0.06	<10	<10	24	<10	39	<0.01
1625701		<20	0.02	<10	<10	12	<10	21	<0.01
1625702		20	0.03	<10	<10	20	<10	34	<0.01
1625703		20	0.01	<10	<10	14	<10	27	0.01
1625704		<20	0.05	<10	<10	21	<10	38	<0.01
1625705		20	0.08	<10	<10	30	<10	39	<0.01
1625706		<20	0.05	<10	<10	23	<10	39	<0.01
1625707		<20	0.06	<10	<10	23	<10	40	<0.01



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		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
1625708		0.77	0.01	<0.2	1.17	<2	<10	110	<0.5	<2	0.28	<0.5	5	5	4	1.95
1625709		0.90	<0.01	<0.2	1.06	<2	<10	100	<0.5	<2	0.26	<0.5	4	5	6	1.72
1625710		0.56	0.03	<0.2	0.87	5	<10	100	<0.5	<2	0.23	<0.5	5	8	8	1.83
1625711		0.52	0.25	<0.2	1.04	6	<10	110	<0.5	<2	0.28	<0.5	6	12	9	1.98
1625712		0.74	0.01	<0.2	0.95	3	<10	90	<0.5	<2	0.20	<0.5	5	8	8	2.11
1625713		0.58	0.11	0.5	0.74	10	<10	150	<0.5	<2	0.17	0.6	5	8	8	1.72
1625714		0.71	<0.01	<0.2	0.90	2	<10	150	<0.5	<2	0.17	0.7	4	5	34	1.85



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
1625708		<10	1	0.64	20	0.51	520	1	0.05	3	290	2	<0.01	<2	3
1625709		<10	<1	0.55	30	0.38	478	1	0.06	2	270	4	0.01	<2	2
1625710		<10	<1	0.38	20	0.26	436	2	0.05	5	270	12	0.01	<2	3
1625711		<10	<1	0.39	20	0.31	483	2	0.05	5	290	12	0.01	<2	3
1625712		<10	<1	0.43	20	0.28	401	1	0.06	3	330	9	0.01	<2	3
1625713		<10	<1	0.35	20	0.15	597	2	0.05	4	310	25	0.01	2	2
1625714		<10	<1	0.41	40	0.23	792	1	0.04	1	220	9	0.01	<2	4



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CERTIFICATE OF ANALYSIS WH19144541

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS42
		Th	Ti	Tl	U	V	W	Zn	Te
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.01
1625708		<20	0.10	<10	<10	27	<10	44	<0.01
1625709		20	0.07	<10	<10	21	<10	42	0.03
1625710		<20	0.04	<10	<10	25	<10	47	0.01
1625711		<20	0.05	<10	<10	28	<10	49	0.01
1625712		<20	0.06	<10	<10	26	<10	53	<0.01
1625713		<20	0.02	<10	<10	18	<10	53	<0.01
1625714		20	0.04	<10	<10	19	<10	38	<0.01



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CERTIFICATE OF ANALYSIS WH19144541

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.	
	CRU-31	CRU-QC LOG-22 PUL-31
	PUL-QC	SPL-21 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	Au-AA25	ME-ICP41 ME-MS42