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To: GROUNDTRUTH EXPLORATION  
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Plus Appendix Pages  
Finalized Date: 7-OCT-2019  
Account: TRUGRO

**CERTIFICATE WH19227633**

Project: JPR

P.O. No.: 3060

This report is for 38 Percussion samples submitted to our lab in Whitehorse, YT, Canada on 11-SEP-2019.

The following have access to data associated with this certificate:

GREG DAWSON  
ANDREW HAMILTON

ISAAC FAGE  
JOE MCCANN

JODIE GIBSON  
BEN MCGRATH

**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
LOG-23	Pulp Login - Rcvd with Barcode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	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:**

Saa Traxler, General Manager, North Vancouver



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**CERTIFICATE OF ANALYSIS WH19227633**

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
1700873		0.94	0.082	<0.2	1.35	4	<10	110	<0.5	<2	0.20	<0.5	8	7	10	2.59
1700874		3.19	0.007	<0.2	1.31	2	<10	100	<0.5	<2	0.45	<0.5	7	6	3	2.56
1700875		4.25	0.023	<0.2	1.27	2	<10	80	0.5	<2	0.24	<0.5	9	7	5	3.11
1700876		4.42	0.055	<0.2	1.17	4	<10	80	<0.5	<2	0.19	<0.5	5	8	2	2.51
1700877		4.27	0.018	<0.2	0.88	3	<10	70	<0.5	<2	0.14	<0.5	5	6	3	2.54
1700878		3.00	0.492	0.6	0.42	22	<10	120	<0.5	<2	0.06	<0.5	2	5	3	2.34
1700879		3.32	0.020	0.5	0.97	5	<10	70	<0.5	<2	0.37	<0.5	6	4	21	2.73
1700880		0.11	4.81	100	1.01	74	10	50	<0.5	<2	0.57	28.0	9	36	74	2.64
1700881		3.55	0.006	<0.2	1.48	2	<10	110	0.5	<2	1.80	<0.5	9	5	2	2.73
1700882		3.32	0.026	<0.2	1.14	2	<10	110	<0.5	<2	0.83	<0.5	8	5	3	2.64
1700883		3.66	0.005	<0.2	1.68	<2	<10	110	<0.5	<2	0.90	<0.5	7	6	2	3.03
1700884		3.81	<0.005	<0.2	1.46	<2	<10	100	<0.5	<2	0.97	<0.5	7	6	2	2.84
1700885		3.76	<0.005	<0.2	1.51	<2	<10	90	<0.5	<2	1.58	<0.5	8	6	2	2.84
1700886		3.35	0.032	<0.2	1.35	<2	<10	100	<0.5	<2	1.25	<0.5	7	5	4	2.49
1700887		3.74	0.113	<0.2	1.23	<2	<10	130	<0.5	<2	0.90	<0.5	7	6	3	2.62
1700888		3.84	0.012	<0.2	1.35	3	<10	120	<0.5	<2	1.23	<0.5	7	6	2	2.60
1700889		3.49	<0.005	<0.2	1.24	2	<10	90	<0.5	<2	1.41	<0.5	7	6	1	2.45
1700890		3.78	<0.005	<0.2	1.30	<2	<10	90	<0.5	<2	1.17	<0.5	7	6	3	2.68
1700891		3.47	0.058	<0.2	1.21	8	<10	110	<0.5	<2	1.74	<0.5	7	6	8	2.50
1700892		3.77	0.012	<0.2	1.32	3	<10	180	<0.5	<2	1.57	<0.5	7	5	3	2.52
1700893		3.59	<0.005	<0.2	1.33	<2	<10	110	<0.5	<2	1.63	<0.5	7	6	4	2.48
1700894		3.53	<0.005	<0.2	0.52	<2	<10	50	<0.5	<2	1.10	<0.5	3	7	1	1.29
1700895		3.57	0.074	<0.2	0.13	3	<10	20	<0.5	<2	0.87	<0.5	3	9	10	0.99
1700896		3.92	0.015	<0.2	1.28	4	<10	140	<0.5	<2	1.37	<0.5	7	6	4	2.46
1700897		3.62	<0.005	<0.2	1.28	<2	<10	110	<0.5	<2	0.77	<0.5	7	6	7	2.46
1700898		3.79	0.044	<0.2	1.17	3	<10	160	<0.5	<2	1.59	<0.5	7	5	5	2.31
1700899		4.02	0.029	<0.2	1.27	3	<10	180	<0.5	<2	1.07	<0.5	7	6	6	2.58
1700900		0.65	<0.005	0.2	0.02	<2	<10	50	<0.5	<2	>25.0	<0.5	<1	<1	1	0.05
1700901		3.52	0.081	0.3	1.02	7	<10	140	<0.5	<2	2.43	<0.5	8	5	6	2.48
1700902		3.76	0.046	<0.2	1.15	6	<10	150	<0.5	<2	2.88	<0.5	7	5	4	2.49
1700903		3.39	0.027	<0.2	1.46	<2	<10	160	<0.5	<2	1.39	<0.5	8	6	3	2.79
1700904		3.92	0.005	<0.2	1.51	<2	<10	160	<0.5	<2	1.30	<0.5	7	6	4	2.81
1700905		3.61	<0.005	<0.2	1.33	2	<10	150	<0.5	<2	1.38	<0.5	7	6	1	2.50
1700906		3.76	<0.005	<0.2	1.59	<2	<10	120	<0.5	<2	0.94	<0.5	9	7	2	2.82
1700907		3.97	<0.005	<0.2	1.42	<2	<10	120	<0.5	<2	0.79	<0.5	7	7	3	2.58
1700908		3.81	<0.005	<0.2	1.41	<2	<10	130	<0.5	<2	1.03	<0.5	8	7	8	2.69
1700909		3.62	0.245	<0.2	1.36	3	<10	140	<0.5	<2	1.34	1.1	7	8	4	2.70
1700910		1.18	1.125	0.7	1.02	3	<10	110	<0.5	<2	1.16	0.9	6	5	5	2.03



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Project: JPR

**CERTIFICATE OF ANALYSIS WH19227633**

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
1700873		<10	<1	0.70	30	0.53	604	1	0.03	4	340	6	0.03	<2	5	16
1700874		10	<1	0.70	30	0.52	771	1	0.04	3	340	3	0.01	<2	7	17
1700875		<10	<1	0.63	30	0.40	559	1	0.03	2	350	4	0.10	<2	7	41
1700876		<10	<1	0.54	20	0.30	255	1	0.03	3	320	3	0.07	<2	4	18
1700877		<10	<1	0.44	20	0.23	266	1	0.02	1	330	3	0.14	<2	4	47
1700878		<10	1	0.40	30	0.07	149	1	0.04	2	290	21	0.37	<2	3	75
1700879		<10	<1	0.49	30	0.30	370	1	0.02	2	330	4	0.10	<2	4	28
1700880		10	2	0.14	10	0.42	309	443	0.07	29	400	894	1.00	135	3	49
1700881		10	<1	0.81	30	0.55	1150	1	0.04	2	350	3	0.01	<2	7	39
1700882		<10	<1	0.53	30	0.36	824	2	0.02	3	340	4	0.03	<2	4	25
1700883		10	<1	0.95	30	0.62	668	1	0.04	2	360	2	0.01	<2	6	28
1700884		10	<1	0.94	30	0.60	665	1	0.04	2	340	4	0.01	<2	6	31
1700885		10	1	0.79	30	0.65	722	1	0.04	2	360	2	0.01	<2	6	62
1700886		<10	<1	0.81	20	0.53	675	1	0.03	1	330	3	0.01	<2	4	30
1700887		<10	<1	0.75	20	0.47	555	1	0.04	2	330	3	0.02	<2	4	25
1700888		<10	<1	0.89	30	0.58	607	1	0.05	2	340	4	0.03	<2	4	41
1700889		<10	<1	0.69	20	0.54	595	1	0.04	2	310	4	0.01	<2	4	44
1700890		<10	<1	0.73	30	0.56	583	1	0.04	2	330	2	0.02	<2	4	44
1700891		<10	<1	0.83	20	0.50	636	1	0.04	3	350	5	0.03	<2	3	50
1700892		<10	<1	0.88	20	0.53	583	1	0.04	3	360	2	0.04	<2	3	53
1700893		<10	<1	0.84	20	0.58	607	1	0.05	2	330	2	0.02	<2	3	87
1700894		<10	<1	0.31	10	0.22	327	1	0.02	1	150	<2	0.01	<2	1	33
1700895		<10	<1	0.08	<10	0.04	222	1	0.01	3	30	<2	0.11	<2	<1	22
1700896		<10	<1	0.87	30	0.57	568	1	0.05	2	310	2	0.14	<2	3	42
1700897		<10	<1	0.79	20	0.55	519	1	0.05	2	320	2	0.11	2	3	31
1700898		<10	<1	0.73	20	0.49	588	1	0.04	2	320	4	0.36	<2	2	41
1700899		<10	<1	0.84	20	0.53	491	1	0.05	2	340	3	0.27	<2	4	31
1700900		<10	<1	0.01	<10	0.68	54	<1	0.01	<1	60	<2	0.01	<2	<1	98
1700901		<10	<1	0.64	20	0.38	707	1	0.04	2	350	6	0.49	<2	3	67
1700902		<10	<1	0.75	20	0.49	737	1	0.04	1	330	4	0.29	<2	4	79
1700903		<10	<1	1.01	30	0.64	652	1	0.05	2	380	<2	0.22	2	5	38
1700904		10	<1	1.02	20	0.65	644	<1	0.05	3	370	2	0.13	<2	5	48
1700905		<10	<1	0.87	30	0.57	624	1	0.04	3	330	2	0.06	<2	3	52
1700906		<10	1	1.03	20	0.70	655	1	0.05	2	350	3	0.05	<2	4	37
1700907		<10	<1	0.86	30	0.66	579	1	0.05	3	360	<2	0.03	<2	3	35
1700908		<10	<1	0.85	20	0.65	595	<1	0.05	3	360	2	0.07	<2	3	42
1700909		<10	<1	0.86	20	0.60	615	1	0.05	3	340	28	0.09	<2	3	48
1700910		<10	<1	0.67	20	0.43	464	<1	0.05	1	210	18	0.10	<2	3	45



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**CERTIFICATE OF ANALYSIS WH19227633**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	ME-MS42
		Th	Ti	Ti	U	V	W	Zn	Ag	Te
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 1	ppm 0.01
1700873		<20	0.10	<10	<10	38	<10	48		<0.01
1700874		<20	0.09	<10	<10	40	<10	48		<0.01
1700875		<20	0.06	<10	<10	34	<10	67		<0.01
1700876		<20	0.04	<10	<10	27	<10	47		<0.01
1700877		<20	0.03	<10	<10	23	<10	45		<0.01
1700878		<20	0.01	<10	<10	11	<10	19		<0.01
1700879		<20	0.05	<10	<10	26	<10	62		0.02
1700880		<20	0.07	<10	<10	51	20	2750	103	0.37
1700881		20	0.09	<10	<10	38	<10	51		0.01
1700882		<20	0.06	<10	<10	28	<10	48		<0.01
1700883		<20	0.12	<10	<10	44	<10	47		<0.01
1700884		20	0.12	<10	<10	44	<10	45		<0.01
1700885		<20	0.10	<10	<10	44	<10	51		<0.01
1700886		<20	0.09	<10	<10	33	<10	41		0.01
1700887		<20	0.08	<10	<10	30	<10	41		0.02
1700888		<20	0.11	<10	<10	35	<10	46		<0.01
1700889		<20	0.08	<10	<10	33	<10	42		<0.01
1700890		<20	0.09	<10	<10	36	<10	47		<0.01
1700891		<20	0.09	<10	<10	29	<10	47		0.01
1700892		<20	0.10	<10	<10	28	<10	46		<0.01
1700893		<20	0.10	<10	<10	33	<10	43		<0.01
1700894		<20	0.04	<10	<10	13	<10	17		<0.01
1700895		<20	0.01	<10	<10	3	10	4		<0.01
1700896		20	0.10	<10	<10	29	<10	44		<0.01
1700897		<20	0.10	<10	<10	32	<10	44		<0.01
1700898		<20	0.07	<10	<10	23	<10	37		0.02
1700899		<20	0.10	<10	<10	33	<10	42		<0.01
1700900		<20	<0.01	<10	<10	<1	<10	<2		<0.01
1700901		<20	0.07	<10	<10	24	<10	37		0.02
1700902		<20	0.09	<10	<10	27	<10	41		<0.01
1700903		<20	0.12	<10	<10	37	<10	47		0.01
1700904		<20	0.12	<10	<10	42	<10	47		<0.01
1700905		<20	0.10	<10	<10	31	<10	41		<0.01
1700906		<20	0.13	<10	<10	44	<10	49		<0.01
1700907		<20	0.11	<10	<10	36	<10	48		<0.01
1700908		<20	0.11	<10	<10	35	<10	48		<0.01
1700909		<20	0.11	<10	<10	34	<10	90		<0.01
1700910		<20	0.08	<10	<10	26	<10	67		<0.01



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**CERTIFICATE OF ANALYSIS WH19227633**

**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
	LOG-23	PUL-32m	PUL-QC
	WEI-21		
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Ag-OG46	Au-AA23	ME-ICP41
	ME-OG46		