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Account: TRUGRO

CERTIFICATE WH19251853

Project: JPR

P.O. No.: 3296

This report is for 48 Percussion samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

GREG DAWSON
ANDREW HAMILTON

ISAAC FAGE
MATT HANEWICH

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
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 WH19251853

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
1701506		4.31	0.024	<0.2	0.40	5	<10	50	<0.5	<2	0.06	<0.5	2	10	6	1.08
1701507		3.71	0.033	<0.2	0.32	7	<10	30	<0.5	<2	0.03	<0.5	1	7	8	1.13
1701508		3.48	0.013	<0.2	0.23	2	<10	10	<0.5	<2	0.02	<0.5	<1	6	7	0.91
1701509		3.60	0.023	0.2	0.23	2	<10	10	<0.5	<2	0.02	<0.5	<1	6	4	0.93
1701510		3.73	0.112	0.5	0.18	4	<10	20	<0.5	2	0.01	<0.5	<1	7	4	1.17
1701511		3.70	0.027	<0.2	0.30	11	<10	40	<0.5	<2	0.01	<0.5	<1	6	4	0.97
1701512		3.52	0.088	0.4	0.30	44	<10	60	<0.5	<2	0.01	<0.5	<1	8	17	1.83
1701513		4.07	0.013	<0.2	0.28	6	<10	40	<0.5	<2	0.01	<0.5	<1	6	5	0.80
1701514		3.58	0.013	0.2	0.26	14	<10	40	<0.5	<2	0.01	<0.5	<1	9	5	0.87
1701515		4.08	0.016	0.6	0.21	19	<10	50	<0.5	<2	0.01	<0.5	<1	5	24	0.78
1701516		3.73	0.024	0.2	0.34	58	<10	50	<0.5	<2	0.01	<0.5	<1	6	12	1.42
1701517		2.91	0.048	0.3	0.31	66	<10	50	<0.5	<2	0.01	<0.5	1	8	9	1.44
1701518		4.02	0.045	0.2	0.25	35	<10	70	<0.5	<2	0.01	<0.5	<1	6	6	0.99
1701519		2.94	0.023	<0.2	0.33	47	<10	80	<0.5	<2	0.01	<0.5	<1	5	14	1.60
1701520		0.11	0.484	0.4	1.89	18	<10	70	<0.5	2	1.23	<0.5	25	88	437	2.57
1701521		2.69	0.103	0.4	0.31	19	<10	80	<0.5	<2	0.01	<0.5	<1	8	7	1.11
1701522		3.50	0.034	0.2	0.29	8	<10	60	<0.5	<2	0.01	<0.5	<1	5	5	0.75
1701523		3.13	0.021	0.2	0.30	7	<10	60	<0.5	<2	0.01	<0.5	<1	5	5	0.72
1701524		3.35	0.014	<0.2	0.23	6	<10	50	<0.5	<2	0.01	<0.5	<1	4	5	0.62
1701525		3.03	0.006	<0.2	0.27	10	<10	50	<0.5	<2	0.01	<0.5	<1	4	3	0.72
1701526		3.10	0.009	<0.2	0.29	4	<10	50	<0.5	<2	0.01	<0.5	<1	5	5	0.80
1701527		3.05	0.015	0.2	0.27	24	<10	50	<0.5	<2	0.01	<0.5	<1	5	5	1.02
1701528		3.11	0.013	<0.2	0.26	24	<10	30	<0.5	<2	0.01	<0.5	<1	5	4	0.86
1701529		3.51	0.005	<0.2	0.63	6	<10	70	<0.5	<2	0.02	<0.5	1	5	5	1.13
1701530		3.43	<0.005	<0.2	0.67	3	<10	50	<0.5	<2	0.09	<0.5	3	5	8	1.29
1701531		3.84	0.006	<0.2	0.72	7	<10	60	<0.5	<2	0.10	<0.5	4	5	7	1.72
1701532		3.49	0.005	<0.2	0.81	4	<10	150	<0.5	<2	0.10	<0.5	4	4	2	1.65
1701533		3.71	0.007	<0.2	1.00	7	<10	90	<0.5	<2	0.12	<0.5	5	5	4	2.02
1701534		3.95	0.005	<0.2	0.59	4	<10	70	<0.5	<2	0.84	<0.5	4	7	9	1.47
1701535		3.39	<0.005	<0.2	0.65	<2	<10	70	<0.5	<2	0.55	<0.5	3	4	2	1.56
1701536		3.45	<0.005	<0.2	0.77	2	<10	80	<0.5	<2	0.38	<0.5	4	6	4	1.50
1701537		3.97	<0.005	<0.2	0.39	<2	<10	30	<0.5	<2	0.54	<0.5	3	4	3	1.31
1701538		3.59	0.006	<0.2	0.34	4	<10	40	<0.5	<2	0.41	<0.5	3	4	8	1.07
1701539		3.44	0.006	<0.2	0.33	3	<10	30	<0.5	<2	0.13	<0.5	1	4	4	0.96
1701540		0.72	<0.005	0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	1	0.07
1701541		3.61	0.005	<0.2	0.35	<2	<10	30	<0.5	<2	0.14	<0.5	2	3	3	1.05
1701542		3.86	<0.005	<0.2	0.35	2	<10	40	<0.5	<2	0.11	<0.5	2	4	3	1.06
1701543		3.83	<0.005	<0.2	0.33	3	<10	40	<0.5	<2	0.36	<0.5	2	3	2	1.08
1701544		3.82	<0.005	<0.2	1.03	2	<10	60	0.5	<2	0.90	<0.5	7	27	12	2.45
1701545		3.68	0.006	<0.2	0.88	4	<10	100	<0.5	<2	0.54	<0.5	6	9	4	2.09



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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
1701506		<10	<1	0.14	10	0.05	101	3	0.04	5	60	4	0.03	<2	1	7
1701507		<10	<1	0.16	10	0.02	83	3	0.05	2	60	3	0.04	<2	1	6
1701508		<10	<1	0.13	<10	0.01	101	2	0.04	3	30	2	0.04	<2	1	3
1701509		<10	<1	0.15	10	0.01	98	1	0.05	2	30	3	0.07	<2	1	3
1701510		<10	<1	0.17	10	0.01	67	2	0.05	1	30	3	0.23	<2	<1	3
1701511		<10	<1	0.22	20	0.01	52	2	0.04	2	40	2	0.20	<2	1	5
1701512		<10	<1	0.24	10	0.01	51	14	0.04	2	90	4	0.26	<2	1	6
1701513		<10	<1	0.18	10	0.01	62	2	0.04	2	30	2	0.10	<2	1	5
1701514		<10	<1	0.17	10	0.01	47	2	0.04	2	50	3	0.15	<2	1	7
1701515		<10	1	0.17	20	<0.01	46	3	0.04	2	40	4	0.12	<2	<1	6
1701516		<10	1	0.20	20	0.01	50	8	0.03	2	110	7	0.15	<2	1	8
1701517		<10	1	0.22	10	0.01	54	8	0.03	3	70	6	0.25	<2	1	7
1701518		<10	1	0.23	20	0.01	53	3	0.03	2	30	12	0.18	<2	<1	6
1701519		<10	<1	0.23	10	0.01	47	19	0.03	1	80	6	0.25	<2	1	8
1701520		<10	<1	0.13	<10	1.72	402	2	0.17	611	300	17	0.19	<2	2	55
1701521		<10	1	0.23	20	0.01	71	7	0.03	2	50	5	0.15	<2	1	7
1701522		<10	<1	0.20	20	0.01	49	3	0.03	1	60	3	0.07	<2	1	7
1701523		<10	<1	0.23	20	0.01	54	2	0.03	2	60	10	0.05	<2	<1	6
1701524		<10	<1	0.16	20	0.01	39	2	0.02	1	60	18	0.06	<2	<1	5
1701525		<10	<1	0.20	30	0.01	44	1	0.04	1	70	4	0.07	<2	<1	7
1701526		<10	<1	0.18	20	0.02	52	3	0.06	1	60	3	0.05	<2	<1	7
1701527		<10	<1	0.17	20	0.01	53	2	0.05	2	90	35	0.11	<2	<1	6
1701528		<10	1	0.14	20	0.04	61	1	0.06	1	90	20	0.06	<2	1	6
1701529		<10	<1	0.34	20	0.12	124	1	0.03	2	120	5	0.03	<2	1	8
1701530		<10	<1	0.36	30	0.18	288	1	0.03	2	160	4	0.04	<2	2	8
1701531		<10	<1	0.44	30	0.24	532	3	0.03	2	190	6	0.05	<2	2	7
1701532		<10	<1	0.53	20	0.30	475	2	0.03	2	190	3	0.09	<2	2	8
1701533		<10	<1	0.65	30	0.37	565	4	0.03	2	240	4	0.03	<2	3	7
1701534		<10	<1	0.39	30	0.21	517	2	0.04	4	190	6	0.09	<2	2	24
1701535		<10	<1	0.46	30	0.24	487	1	0.03	1	200	3	0.05	<2	2	18
1701536		<10	<1	0.50	30	0.25	405	1	0.02	2	220	2	0.01	<2	2	14
1701537		<10	<1	0.18	20	0.22	435	1	0.01	2	90	4	0.05	<2	1	53
1701538		<10	<1	0.18	20	0.13	251	1	0.03	1	90	7	0.19	<2	1	29
1701539		<10	<1	0.20	20	0.11	199	1	0.04	1	100	3	0.07	<2	1	9
1701540		<10	1	0.01	<10	0.43	55	<1	<0.01	<1	80	2	<0.01	<2	<1	101
1701541		<10	<1	0.20	20	0.11	260	1	0.03	2	90	3	0.07	<2	1	7
1701542		<10	<1	0.22	20	0.08	336	1	0.05	1	120	3	0.10	<2	1	7
1701543		<10	<1	0.23	20	0.08	506	1	0.03	1	140	2	0.07	<2	1	12
1701544		10	<1	0.71	20	0.57	643	1	0.04	12	340	9	0.07	<2	6	25
1701545		<10	<1	0.60	20	0.43	520	5	0.03	6	300	8	0.10	<2	4	22



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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
1701506		20	0.02	<10	<10	8	10	8	0.05
1701507		20	0.01	<10	<10	4	<10	6	0.07
1701508		20	<0.01	<10	<10	1	<10	6	0.09
1701509		20	<0.01	<10	<10	1	<10	3	0.07
1701510		20	<0.01	<10	<10	1	<10	2	0.66
1701511		20	<0.01	<10	<10	1	<10	<2	0.29
1701512		20	<0.01	<10	<10	5	<10	5	0.56
1701513		<20	<0.01	<10	<10	2	<10	2	0.05
1701514		20	<0.01	<10	<10	4	<10	2	0.04
1701515		<20	<0.01	<10	<10	1	<10	3	0.07
1701516		30	<0.01	<10	<10	5	<10	3	0.08
1701517		20	<0.01	<10	<10	4	<10	3	0.09
1701518		<20	<0.01	<10	<10	2	<10	<2	0.14
1701519		20	<0.01	<10	<10	4	<10	3	0.13
1701520		<20	0.07	<10	<10	50	<10	47	0.17
1701521		20	<0.01	<10	<10	2	<10	2	0.12
1701522		20	<0.01	<10	<10	2	<10	2	0.04
1701523		20	<0.01	<10	<10	2	<10	2	0.02
1701524		20	<0.01	<10	<10	2	<10	3	0.02
1701525		20	<0.01	<10	<10	2	<10	2	0.02
1701526		<20	<0.01	<10	<10	3	<10	4	0.02
1701527		20	<0.01	<10	<10	4	<10	4	0.35
1701528		<20	0.01	<10	<10	4	<10	6	0.08
1701529		<20	0.02	<10	<10	8	<10	16	0.03
1701530		<20	0.03	<10	<10	12	<10	28	0.02
1701531		20	0.04	<10	<10	15	<10	38	0.05
1701532		<20	0.05	<10	<10	18	<10	38	0.01
1701533		20	0.07	<10	<10	20	<10	46	0.03
1701534		20	0.03	<10	<10	12	<10	25	0.02
1701535		20	0.05	<10	<10	15	<10	32	0.01
1701536		20	0.04	<10	<10	11	<10	31	0.01
1701537		20	0.01	<10	<10	8	<10	24	<0.01
1701538		<20	0.01	<10	<10	4	<10	12	0.01
1701539		20	0.01	<10	<10	5	<10	15	0.02
1701540		<20	<0.01	<10	<10	<1	<10	<2	0.01
1701541		20	0.01	<10	<10	5	<10	17	0.01
1701542		20	0.01	<10	<10	7	<10	18	0.01
1701543		<20	0.01	<10	<10	4	<10	17	0.01
1701544		<20	0.06	<10	<10	50	<10	54	0.01
1701545		<20	0.07	<10	<10	28	<10	46	0.02



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Sample Description	Method Analyte Units LOD	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
1701546		3.90	<0.005	<0.2	0.79	3	<10	90	0.5	<2	1.31	<0.5	5	16	6
1701547		4.06	<0.005	<0.2	0.42	2	<10	30	<0.5	<2	0.20	<0.5	3	6	5
1701548		4.01	0.009	0.6	0.57	11	<10	50	<0.5	<2	0.16	<0.5	3	5	27
1701549		3.55	0.012	0.5	0.44	189	<10	40	<0.5	3	0.38	1.9	9	6	18
1701550		3.73	0.012	3.7	0.67	68	<10	60	0.5	2	0.82	1.1	10	7	16
1701551		3.38	0.008	0.2	1.70	10	<10	170	0.5	<2	0.84	<0.5	9	8	13
1701552		3.81	0.010	0.2	1.59	11	<10	200	<0.5	<2	1.06	<0.5	9	8	15
1701553		3.02	<0.005	<0.2	1.50	4	<10	200	<0.5	<2	0.71	<0.5	8	7	7



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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-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
		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
1701546		<10	<1	0.48	20	0.40	512	1	0.03	13	200	4	0.04	<2	3
1701547		<10	<1	0.26	30	0.11	637	4	0.02	4	130	3	0.06	<2	1
1701548		<10	<1	0.29	20	0.12	655	5	0.05	3	220	3	0.13	<2	2
1701549		<10	<1	0.21	10	0.21	629	22	0.02	3	230	104	1.03	<2	6
1701550		<10	<1	0.24	10	0.37	483	39	0.02	3	250	246	0.94	<2	9
1701551		10	<1	0.98	20	0.81	589	6	0.03	3	310	25	0.11	<2	8
1701552		<10	<1	1.01	20	0.73	632	8	0.04	3	310	9	0.08	<2	9
1701553		10	<1	1.03	20	0.77	600	1	0.05	3	290	6	0.11	<2	9



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CERTIFICATE OF ANALYSIS WH19251853

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
1701546		<20	0.03	<10	<10	13	<10	29	0.01
1701547		20	0.02	<10	<10	7	<10	31	0.02
1701548		<20	0.02	<10	<10	11	<10	30	0.04
1701549		<20	0.01	<10	<10	39	<10	84	0.10
1701550		<20	0.01	<10	<10	47	<10	60	1.56
1701551		<20	0.11	<10	<10	64	<10	45	0.03
1701552		<20	0.11	<10	<10	54	<10	46	0.05
1701553		<20	0.11	<10	<10	60	<10	60	0.01



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CERTIFICATE OF ANALYSIS WH19251853

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		
			LOG-21
			SPL-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA23	ME-ICP41	ME-MS42