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Finalized Date: 18-MAY-2019  
Account: TRUGRO

**CERTIFICATE WH19105305**

Project: JPR  
P.O. No.: 1162  
This report is for 115 Rock samples submitted to our lab in Whitehorse, YT, Canada on 2-MAY-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-MS42	Up to 34 elements by ICP-MS	ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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 WH19105305**

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
1614651		1.19	<0.01	<0.2	2.08	<2	<10	120	<0.5	<2	0.31	0.8	10	6	16	5.66
1614652		1.15	0.01	<0.2	1.84	<2	<10	120	<0.5	<2	0.29	0.7	12	11	16	5.23
1614653		1.21	0.01	<0.2	0.81	<2	<10	130	<0.5	<2	0.21	<0.5	10	5	14	3.33
1614654		1.12	0.03	0.3	0.97	3	<10	150	<0.5	<2	0.36	0.6	9	11	14	4.59
1614655		1.49	0.01	<0.2	1.79	3	<10	200	<0.5	<2	0.80	1.9	15	5	20	6.10
1614656		1.13	0.07	0.3	1.35	<2	<10	230	<0.5	<2	0.38	0.7	12	3	23	5.04
1614657		1.09	0.01	0.4	2.05	4	<10	1340	<0.5	<2	3.38	0.6	26	66	69	5.00
1614658		1.11	<0.01	<0.2	0.64	2	<10	190	<0.5	<2	2.02	0.5	17	5	25	3.73
1614659		1.00	0.01	0.4	0.72	2	<10	220	0.7	<2	8.9	1.0	30	70	50	6.53
1614660		1.13	<0.01	<0.2	2.12	<2	<10	100	<0.5	<2	4.12	<0.5	25	238	17	3.82
1614661		0.97	0.01	0.3	1.92	3	<10	1310	0.5	<2	4.93	0.9	28	20	65	5.30
1614662		1.13	0.02	0.2	1.37	2	<10	190	<0.5	<2	0.79	<0.5	15	7	26	2.85
1614663		1.29	0.09	0.6	0.44	19	<10	50	0.6	<2	0.55	0.7	10	5	45	3.05
1614664		1.03	0.21	1.0	0.39	5	<10	100	<0.5	<2	1.39	2.2	11	3	73	2.12
1614665		1.03	0.16	0.7	0.32	<2	<10	210	<0.5	<2	1.14	1.4	9	3	31	1.73
1614666		1.00	0.14	0.3	0.33	<2	<10	140	<0.5	<2	1.53	1.2	8	3	30	1.63
1614667		1.36	0.19	0.2	0.31	3	<10	100	<0.5	<2	2.17	<0.5	7	2	29	1.46
1614668		1.04	0.24	0.2	0.38	2	<10	140	<0.5	<2	1.43	0.9	8	2	20	2.00
1614669		1.42	0.07	0.3	0.42	2	<10	130	<0.5	<2	1.71	0.5	11	3	32	2.49
1614670		1.18	2.04	0.9	0.44	3	<10	160	0.5	<2	3.15	1.6	13	4	7	3.19
1614671		0.86	0.01	0.5	0.99	4	<10	90	<0.5	<2	3.19	1.1	9	2	27	2.58
1614672		1.11	0.03	0.2	0.94	9	<10	620	<0.5	<2	2.30	1.7	8	4	21	2.08
1614673		1.25	0.01	0.2	2.32	5	<10	580	1.6	<2	5.62	0.8	31	305	149	4.81
1614674		1.22	<0.01	0.2	3.48	4	<10	260	1.8	2	2.05	0.5	32	307	144	5.29
1614675		1.12	0.01	<0.2	2.54	9	<10	280	1.8	<2	1.77	0.5	31	277	141	4.99
1614677		0.88	<0.01	<0.2	3.47	9	<10	100	0.5	<2	0.51	0.5	24	22	13	6.80
1614678		1.21	<0.01	<0.2	1.32	2	<10	380	<0.5	<2	0.87	<0.5	9	10	11	2.66
1614679		1.01	0.05	<0.2	1.39	2	<10	150	0.6	2	0.20	1.1	9	5	12	2.51
1614680		0.90	0.01	<0.2	1.56	2	<10	240	0.6	<2	0.20	<0.5	10	8	15	3.04
1614681		1.19	0.04	<0.2	1.45	2	<10	190	0.8	<2	0.25	<0.5	8	4	30	2.83
1614682		1.13	0.01	<0.2	1.99	6	<10	490	1.7	2	2.10	0.5	30	300	134	4.82
1614683		1.22	0.01	<0.2	2.37	10	<10	200	1.7	3	2.21	0.6	30	270	140	4.74
1614684		1.11	0.01	<0.2	2.20	5	<10	230	1.6	<2	1.06	<0.5	25	235	128	4.20
1614685		1.14	<0.01	0.3	3.09	5	10	210	2.2	<2	2.03	<0.5	30	320	134	5.07
1614686		1.03	0.21	0.3	2.67	5	<10	160	0.8	<2	0.67	0.8	28	22	11	6.06
1614687		1.08	0.01	<0.2	2.58	3	<10	70	<0.5	<2	5.28	<0.5	23	17	27	4.43
1614688		1.04	0.01	<0.2	2.85	3	<10	60	<0.5	<2	2.75	<0.5	26	20	57	5.25
1614689		1.45	0.01	0.2	2.46	2	<10	50	<0.5	<2	3.39	<0.5	22	15	27	4.54
1614690		1.01	0.04	<0.2	0.52	3	<10	160	<0.5	<2	2.54	<0.5	7	3	1	2.46
1614691		1.12	0.01	<0.2	1.14	11	10	160	0.5	<2	7.3	0.5	20	5	1	4.62



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**CERTIFICATE OF ANALYSIS WH19105305**

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
1614651		10	<1	0.12	20	0.98	1500	1	0.04	5	1070	20	0.02	<2	12	7
1614652		10	<1	0.13	10	0.90	1560	1	0.04	6	1320	31	0.03	<2	11	10
1614653		<10	<1	0.26	20	0.23	1050	1	0.03	5	680	8	0.05	2	4	7
1614654		10	<1	0.15	20	0.49	1070	1	0.04	5	1100	8	0.07	<2	9	10
1614655		10	<1	0.11	20	0.86	1580	1	0.04	5	1080	58	0.09	<2	14	18
1614656		10	<1	0.07	20	0.54	1300	1	0.04	5	1330	13	0.02	2	11	12
1614657		10	<1	0.32	10	1.30	1020	<1	0.04	53	1180	15	0.17	<2	13	59
1614658		<10	<1	0.13	10	0.11	947	1	0.03	21	940	18	0.03	<2	5	26
1614659		<10	<1	0.16	10	0.33	1400	1	0.02	81	970	24	0.04	<2	12	187
1614660		10	<1	0.14	10	1.83	684	<1	0.05	114	1170	3	0.01	<2	11	84
1614661		10	1	0.32	10	1.29	1420	<1	0.02	19	1140	19	0.06	<2	15	122
1614662		<10	<1	0.18	10	0.88	839	<1	0.03	9	840	16	0.10	<2	4	21
1614663		<10	<1	0.17	20	0.05	418	4	0.01	23	720	83	0.14	<2	4	10
1614664		<10	<1	0.21	20	0.03	549	3	0.01	3	410	106	0.29	<2	1	20
1614665		<10	<1	0.22	20	0.03	753	4	0.01	3	450	110	0.16	<2	1	25
1614666		<10	1	0.22	20	0.03	853	1	0.02	3	470	31	0.09	<2	1	29
1614667		<10	<1	0.23	20	0.03	745	1	0.01	2	420	11	0.18	<2	1	38
1614668		<10	<1	0.25	20	0.04	814	1	0.02	2	420	25	0.19	<2	1	31
1614669		<10	1	0.20	20	0.05	871	2	0.02	6	580	34	0.06	<2	3	32
1614670		<10	<1	0.25	20	0.08	1440	2	0.02	5	690	253	0.09	<2	2	42
1614671		<10	<1	0.22	10	0.41	978	1	0.02	6	820	423	0.08	<2	2	59
1614672		<10	<1	0.23	30	0.36	807	1	0.03	7	430	53	0.08	<2	2	49
1614673		10	1	0.40	20	2.85	1400	<1	0.03	212	2720	44	0.02	<2	11	251
1614674		10	<1	0.42	20	5.35	618	<1	0.12	217	2760	16	0.02	<2	8	134
1614675		10	1	0.37	20	4.49	506	<1	0.13	201	2760	16	0.02	<2	7	129
1614677		10	<1	0.17	10	2.26	1470	<1	0.04	26	1260	42	0.02	<2	10	14
1614678		<10	<1	0.21	30	0.69	782	<1	0.04	8	450	15	0.03	<2	3	26
1614679		<10	<1	0.24	30	0.64	713	<1	0.02	4	450	59	0.02	<2	2	9
1614680		10	1	0.18	40	0.65	529	<1	0.04	5	340	13	0.01	<2	3	11
1614681		<10	<1	0.22	40	0.52	412	<1	0.03	4	360	13	0.02	<2	2	11
1614682		10	<1	0.47	20	3.35	755	1	0.04	188	2760	15	0.02	<2	7	132
1614683		10	<1	0.41	20	3.74	637	1	0.20	200	2760	15	0.02	<2	5	151
1614684		10	1	0.36	20	3.29	539	1	0.20	169	2500	17	0.02	<2	5	115
1614685		10	1	0.61	20	5.12	528	<1	0.17	195	2640	9	0.01	<2	9	137
1614686		10	<1	0.20	10	2.72	1130	<1	0.05	19	1170	20	0.01	<2	17	34
1614687		10	1	0.15	10	2.17	937	<1	0.02	40	710	2	0.01	<2	8	162
1614688		10	<1	0.14	10	2.52	1030	<1	0.02	34	790	4	0.01	<2	12	71
1614689		10	<1	0.18	10	2.01	795	<1	0.02	34	820	2	0.02	<2	7	56
1614690		<10	<1	0.20	30	0.11	685	1	0.01	3	890	6	0.01	<2	5	45
1614691		<10	1	0.11	10	0.79	1050	<1	0.01	10	990	8	0.01	<2	15	91



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**CERTIFICATE OF ANALYSIS WH19105305**

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
1614651		<20	0.02	<10	<10	41	<10	160	0.01
1614652		<20	0.02	<10	<10	59	<10	170	0.01
1614653		<20	0.01	<10	<10	27	<10	95	0.01
1614654		<20	0.03	<10	<10	52	<10	126	0.06
1614655		<20	0.02	<10	<10	87	<10	219	0.01
1614656		<20	0.03	<10	<10	35	<10	145	0.11
1614657		<20	0.04	<10	<10	120	<10	98	0.06
1614658		<20	<0.01	<10	<10	46	<10	79	0.02
1614659		<20	0.01	<10	<10	92	<10	125	0.03
1614660		<20	0.05	<10	<10	69	<10	57	<0.01
1614661		<20	0.04	<10	<10	127	<10	119	0.01
1614662		<20	0.01	<10	<10	43	<10	69	<0.01
1614663		<20	<0.01	<10	<10	14	<10	71	0.06
1614664		<20	<0.01	<10	<10	4	<10	86	0.08
1614665		<20	0.01	<10	<10	8	<10	37	0.13
1614666		<20	0.01	<10	<10	4	<10	34	0.02
1614667		<20	<0.01	<10	<10	3	<10	24	<0.01
1614668		<20	<0.01	<10	<10	8	<10	43	<0.01
1614669		<20	<0.01	<10	<10	19	<10	56	0.01
1614670		<20	0.01	<10	<10	15	<10	83	0.05
1614671		<20	<0.01	<10	<10	12	<10	69	0.04
1614672		<20	<0.01	<10	<10	13	<10	69	0.01
1614673		<20	0.15	<10	<10	167	<10	83	0.01
1614674		<20	0.20	<10	<10	144	<10	71	0.01
1614675		<20	0.17	<10	<10	155	<10	68	<0.01
1614677		<20	0.02	<10	<10	132	<10	160	0.01
1614678		<20	0.01	<10	<10	22	<10	64	<0.01
1614679		<20	0.01	<10	<10	14	<10	78	0.01
1614680		<20	0.01	<10	<10	27	<10	57	<0.01
1614681		<20	<0.01	<10	<10	16	<10	53	<0.01
1614682		<20	0.20	<10	<10	159	<10	63	<0.01
1614683		<20	0.19	<10	<10	152	<10	67	<0.01
1614684		<20	0.17	<10	<10	131	<10	56	<0.01
1614685		<20	0.18	<10	<10	151	<10	65	0.02
1614686		<20	0.03	<10	<10	155	<10	96	0.01
1614687		<20	0.01	<10	<10	70	<10	65	<0.01
1614688		<20	0.01	<10	<10	91	<10	89	0.01
1614689		<20	<0.01	<10	<10	62	<10	97	0.02
1614690		<20	0.02	<10	<10	16	<10	40	<0.01
1614691		<20	0.03	<10	<10	91	<10	92	<0.01



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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
1614692		1.12	0.01	<0.2	0.65	4	<10	210	<0.5	<2	3.06	<0.5	12	4	2	3.90
1614701		0.57	<0.01	0.3	1.61	5	<10	260	1.2	<2	1.65	<0.5	17	145	81	3.16
1614702		0.81	0.01	0.2	1.31	3	<10	200	0.9	<2	1.13	<0.5	13	75	49	2.75
1614703		1.06	0.01	<0.2	0.86	<2	<10	90	<0.5	<2	0.32	<0.5	6	6	13	1.91
1614704		1.36	0.01	<0.2	0.81	<2	<10	90	<0.5	<2	0.17	<0.5	6	6	11	1.91
1614705		0.93	0.01	<0.2	0.77	3	<10	90	<0.5	<2	0.19	<0.5	8	5	17	2.09
1614706		1.16	0.02	0.3	1.08	4	<10	180	0.5	<2	0.47	<0.5	11	4	20	3.03
1614707		0.91	0.01	0.3	0.56	13	<10	200	0.5	<2	0.61	<0.5	9	2	19	2.13
1614708		1.06	0.03	<0.2	0.59	4	<10	150	0.6	<2	0.37	<0.5	6	3	10	2.37
1614709		1.10	0.25	<0.2	0.52	5	<10	150	<0.5	<2	0.21	<0.5	6	3	11	2.21
1614710		1.04	0.03	0.2	0.43	11	<10	160	0.5	<2	0.91	<0.5	9	3	18	2.68
1614711		1.15	0.75	0.7	0.31	4	<10	80	<0.5	<2	3.11	<0.5	6	3	28	1.93
1614712		1.07	0.05	0.2	0.90	7	<10	110	<0.5	<2	3.16	<0.5	9	6	22	2.01
1614713		1.12	0.01	0.2	1.59	3	<10	130	<0.5	<2	2.06	<0.5	11	6	17	3.61
1614714		1.24	0.01	0.2	4.83	6	<10	80	<0.5	<2	4.82	0.5	34	404	10	8.02
1614715		1.19	0.01	0.3	1.78	2	<10	100	<0.5	<2	2.84	<0.5	11	8	30	4.11
1614716		1.02	0.02	0.2	1.32	11	<10	100	<0.5	<2	0.92	<0.5	11	14	32	3.51
1614717		1.05	0.01	0.5	0.94	3	<10	110	<0.5	2	3.63	0.9	11	10	48	2.69
1614718		1.17	0.04	1.1	2.39	5	<10	180	<0.5	<2	2.76	0.9	32	69	106	6.72
1614719		1.35	0.07	0.4	0.75	2	<10	640	<0.5	<2	1.99	<0.5	13	3	37	2.65
1614720		1.17	0.05	0.2	0.55	<2	<10	170	<0.5	<2	2.77	<0.5	5	2	11	1.50
1614721		1.21	0.17	0.4	0.78	4	<10	120	<0.5	<2	1.90	0.8	7	2	34	1.87
1614722		1.27	0.04	<0.2	0.91	<2	<10	80	<0.5	<2	2.16	<0.5	5	3	11	1.92
1614723		1.22	0.03	0.2	0.66	<2	<10	80	<0.5	<2	1.07	<0.5	5	4	14	1.96
1614724		1.11	0.09	0.2	0.92	2	<10	100	<0.5	<2	0.93	<0.5	7	4	18	2.24
1614725		1.07	0.03	<0.2	1.82	5	<10	60	<0.5	<2	0.23	0.6	11	10	29	5.29
1614726		1.61	<0.01	0.2	0.02	5	<10	20	<0.5	2	>25.0	<0.5	<1	<1	8	0.21
1614727		0.74	<0.01	<0.2	1.84	4	<10	80	<0.5	<2	0.22	<0.5	10	14	11	4.01
1614728		1.10	0.02	0.3	1.67	5	<10	100	<0.5	<2	0.26	0.5	12	14	21	4.30
1614729		1.09	0.01	0.2	1.28	2	<10	60	<0.5	<2	0.19	0.7	10	10	16	3.66
1614730		1.10	0.02	0.2	1.54	<2	<10	40	<0.5	2	0.41	1.3	10	4	23	4.03
1614731		0.92	<0.01	<0.2	2.35	4	<10	60	<0.5	<2	0.35	<0.5	12	70	13	5.77
1614732		0.87	<0.01	<0.2	1.26	3	<10	80	<0.5	<2	0.24	<0.5	9	13	9	3.94
1614733		0.94	0.01	<0.2	1.14	2	<10	80	<0.5	<2	0.14	<0.5	9	8	9	3.89
1614734		0.92	0.01	<0.2	2.11	3	<10	120	<0.5	<2	0.35	0.5	16	6	16	5.43
1614735		0.81	<0.01	<0.2	1.84	2	<10	70	<0.5	<2	0.29	<0.5	12	4	3	4.09
1614736		1.10	<0.01	<0.2	1.26	<2	<10	90	<0.5	<2	0.27	<0.5	10	19	16	3.71
1614737		1.05	0.02	0.3	1.42	2	<10	100	<0.5	<2	0.19	<0.5	11	5	10	3.20
1614738		0.93	<0.01	<0.2	1.32	<2	<10	80	<0.5	<2	0.34	<0.5	10	3	13	3.41
1614739		1.02	0.01	<0.2	1.36	<2	<10	100	<0.5	<2	0.26	<0.5	10	4	20	3.58



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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
1614692		<10	<1	0.16	10	0.14	668	<1	0.02	3	1180	5	0.01	2	13	41
1614701		<10	<1	0.18	80	1.79	753	1	0.03	95	1650	9	0.05	<2	5	81
1614702		10	<1	0.30	40	0.99	749	1	0.04	57	990	11	0.01	<2	3	49
1614703		<10	<1	0.24	40	0.31	456	1	0.02	5	480	6	0.01	<2	2	9
1614704		<10	<1	0.26	20	0.25	494	<1	0.02	5	510	9	0.01	<2	1	7
1614705		<10	<1	0.24	50	0.24	563	1	0.02	6	550	12	0.01	<2	2	8
1614706		<10	<1	0.25	40	0.30	759	1	0.01	4	490	17	0.01	<2	2	13
1614707		<10	<1	0.23	30	0.03	892	2	<0.01	3	420	20	0.01	<2	2	13
1614708		<10	<1	0.23	30	0.06	788	3	0.01	3	430	11	0.02	<2	2	10
1614709		<10	1	0.20	20	0.04	722	1	0.01	4	510	8	0.02	<2	2	6
1614710		<10	<1	0.20	30	0.03	821	2	0.01	4	460	21	0.06	<2	2	17
1614711		<10	<1	0.25	20	0.05	604	11	0.01	2	370	8	0.30	<2	1	30
1614712		<10	1	0.27	20	0.35	954	1	0.01	6	420	74	0.06	<2	2	75
1614713		10	<1	0.28	20	0.89	1085	1	0.02	5	520	5	0.04	<2	5	49
1614714		10	1	0.12	10	4.45	1720	<1	0.01	163	1050	89	0.01	<2	16	128
1614715		10	<1	0.24	20	0.84	1075	<1	0.02	8	1020	83	0.07	<2	4	67
1614716		<10	<1	0.27	20	0.52	742	1	0.01	13	880	49	0.05	<2	4	15
1614717		<10	<1	0.20	20	0.46	846	1	0.01	19	480	97	0.07	<2	3	56
1614718		10	1	0.30	10	1.52	955	1	0.01	28	530	33	0.27	<2	10	64
1614719		<10	<1	0.25	20	0.28	710	2	0.01	4	520	75	0.12	<2	2	30
1614720		<10	<1	0.22	20	0.12	797	1	0.01	2	350	12	0.03	<2	1	55
1614721		<10	<1	0.24	20	0.23	766	1	0.01	3	380	32	0.11	<2	1	44
1614722		<10	<1	0.23	20	0.28	757	1	0.01	2	390	6	0.02	<2	1	47
1614723		<10	<1	0.24	30	0.18	731	2	0.01	3	420	11	0.04	<2	1	26
1614724		<10	<1	0.23	30	0.34	930	1	0.01	3	480	22	0.04	<2	2	21
1614725		10	<1	0.08	10	1.07	848	1	0.04	5	950	32	0.02	<2	13	6
1614726		<10	<1	<0.01	<10	0.45	92	<1	0.01	2	70	3	0.14	2	<1	88
1614727		10	<1	0.07	10	1.04	877	<1	0.02	8	610	11	<0.01	2	9	7
1614728		10	<1	0.08	10	1.04	821	1	0.02	8	670	11	0.06	<2	11	9
1614729		10	1	0.09	10	0.91	787	<1	0.03	6	660	6	0.02	<2	8	8
1614730		10	<1	0.12	20	0.66	1120	1	0.01	3	1030	54	0.01	<2	6	13
1614731		10	<1	0.07	20	1.48	1085	<1	0.02	19	1310	32	<0.01	<2	15	9
1614732		10	1	0.07	10	0.71	637	1	0.02	8	820	7	0.01	3	9	9
1614733		10	<1	0.07	10	0.70	815	<1	0.03	3	520	10	0.02	2	7	5
1614734		10	<1	0.27	20	1.80	1300	<1	0.03	4	1340	10	0.02	<2	14	9
1614735		10	<1	0.18	20	1.15	1065	<1	0.02	3	1010	4	<0.01	<2	6	9
1614736		10	1	0.13	20	0.78	1160	<1	0.03	6	1020	6	<0.01	<2	6	9
1614737		10	<1	0.41	30	0.97	727	<1	0.02	6	550	3	0.01	<2	6	9
1614738		<10	<1	0.26	20	0.70	1100	<1	0.01	3	1170	4	0.01	<2	4	11
1614739		<10	<1	0.24	30	0.62	914	1	0.02	4	920	8	0.03	<2	4	9



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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
1614692		<20	0.05	<10	<10	72	<10	55	<0.01
1614701		<20	0.10	<10	<10	85	<10	42	0.01
1614702		20	0.05	<10	<10	55	<10	42	0.01
1614703		20	0.01	<10	<10	12	<10	35	<0.01
1614704		20	0.01	<10	<10	11	<10	30	<0.01
1614705		20	0.01	<10	<10	11	<10	34	0.01
1614706		20	<0.01	<10	<10	13	<10	52	0.02
1614707		<20	<0.01	<10	<10	7	<10	37	0.04
1614708		<20	0.01	<10	<10	9	<10	41	0.02
1614709		<20	<0.01	<10	<10	9	<10	40	0.01
1614710		<20	<0.01	<10	<10	7	<10	50	0.02
1614711		<20	<0.01	<10	<10	9	<10	29	0.11
1614712		<20	<0.01	<10	<10	11	<10	42	0.03
1614713		<20	0.02	<10	<10	42	<10	88	0.01
1614714		<20	0.01	<10	<10	136	<10	237	0.01
1614715		<20	0.01	<10	<10	34	<10	89	0.02
1614716		<20	<0.01	<10	<10	23	<10	70	0.02
1614717		<20	0.01	<10	<10	32	<10	60	0.02
1614718		<20	0.04	<10	<10	54	<10	137	0.04
1614719		<20	0.01	<10	<10	16	<10	53	0.04
1614720		<20	<0.01	<10	<10	5	<10	28	<0.01
1614721		<20	<0.01	<10	<10	5	<10	54	0.01
1614722		<20	<0.01	<10	<10	7	<10	42	<0.01
1614723		<20	0.01	<10	<10	9	<10	36	0.01
1614724		<20	0.01	<10	<10	13	<10	48	0.01
1614725		<20	0.03	<10	<10	53	<10	140	0.03
1614726		<20	<0.01	<10	<10	1	<10	3	0.04
1614727		<20	0.03	<10	<10	65	<10	148	0.01
1614728		<20	0.04	<10	<10	69	<10	147	0.12
1614729		<20	0.04	<10	<10	63	<10	146	0.08
1614730		<20	0.02	<10	<10	28	<10	128	0.02
1614731		<20	0.04	<10	<10	61	<10	145	0.01
1614732		<20	0.04	<10	<10	56	<10	122	0.02
1614733		<20	0.03	<10	<10	56	<10	113	0.01
1614734		<20	0.09	<10	<10	96	<10	223	<0.01
1614735		<20	0.03	<10	<10	47	<10	116	<0.01
1614736		<20	0.03	<10	<10	42	<10	98	0.01
1614737		<20	0.07	<10	<10	45	<10	94	0.28
1614738		<20	0.02	<10	<10	32	<10	74	0.01
1614739		<20	0.02	<10	<10	30	<10	73	0.06



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**CERTIFICATE OF ANALYSIS WH19105305**

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
1614740		0.91	0.01	0.2	1.34	2	<10	120	0.9	<2	0.55	<0.5	10	20	27	3.14
1614741		0.93	0.01	0.7	0.38	41	<10	60	0.5	<2	0.10	2.1	6	6	56	1.85
1614742		1.08	<0.01	0.4	1.67	36	<10	120	0.9	<2	0.63	1.8	17	82	40	3.89
1614751		1.04	0.03	0.2	1.16	3	<10	160	<0.5	<2	0.29	<0.5	7	4	22	4.20
1614752		0.92	<0.01	0.2	1.60	4	<10	180	<0.5	<2	0.42	0.9	11	7	24	4.78
1614753		0.80	<0.01	<0.2	1.86	4	<10	150	<0.5	<2	0.54	0.7	11	9	24	4.79
1614754		1.05	<0.01	<0.2	1.83	<2	<10	120	<0.5	<2	0.53	0.5	10	11	21	4.38
1614755		0.69	0.04	<0.2	1.66	3	<10	130	<0.5	<2	0.31	0.5	9	8	26	4.43
1614756		1.03	0.05	0.2	0.74	17	<10	120	<0.5	<2	0.20	<0.5	5	6	22	1.89
1614757		1.10	0.08	0.3	1.89	2	<10	110	<0.5	<2	0.33	0.8	10	4	23	4.58
1614758		0.89	0.05	0.3	0.68	2	<10	130	0.5	<2	0.17	0.7	6	5	21	2.37
1614759		0.79	0.02	0.2	1.18	3	<10	170	0.5	<2	0.28	0.6	14	11	23	3.99
1614760		0.88	0.15	0.4	0.45	2	<10	80	<0.5	2	0.12	1.7	4	4	12	1.33
1614761		0.89	0.03	0.2	0.51	2	<10	70	<0.5	<2	0.10	<0.5	4	13	12	1.22
1614762		1.28	0.24	0.9	1.00	3	<10	110	<0.5	<2	0.35	7.0	8	6	33	3.29
1614763		0.84	0.02	<0.2	0.97	2	<10	90	<0.5	<2	0.20	<0.5	8	9	16	2.47
1614764		0.98	0.04	0.2	0.64	3	<10	90	<0.5	<2	0.13	0.6	5	6	24	1.80
1614765		0.97	0.02	<0.2	0.58	2	<10	70	<0.5	<2	0.14	<0.5	5	7	9	1.64
1614766		0.91	0.03	0.3	0.99	2	<10	80	0.7	<2	0.23	<0.5	9	16	17	2.43
1614767		0.96	0.02	0.2	0.79	2	<10	80	0.7	<2	0.20	0.5	8	23	14	2.02
1614768		0.59	0.01	0.2	1.01	2	<10	100	0.8	<2	0.24	0.6	11	11	22	3.38
1614769		1.19	0.01	<0.2	0.62	5	<10	60	0.5	<2	0.12	<0.5	5	7	9	1.46
1614770		0.96	<0.01	<0.2	0.51	<2	<10	70	0.5	<2	0.11	<0.5	5	4	5	1.44
1614771		0.93	0.02	<0.2	0.48	2	<10	80	0.5	2	0.18	<0.5	7	3	13	1.43
1614772		1.14	0.02	<0.2	0.64	<2	<10	90	0.5	<2	0.17	0.6	6	8	10	1.77
1614773		0.87	0.01	0.2	0.98	18	<10	120	<0.5	<2	0.16	0.5	5	14	12	1.69
1614774		1.00	0.01	<0.2	0.39	<2	<10	80	<0.5	<2	0.10	<0.5	5	4	9	1.16
1614775		1.09	<0.01	<0.2	0.38	<2	<10	50	<0.5	<2	0.16	<0.5	3	3	3	1.06
1614776		1.89	<0.01	0.2	0.03	5	<10	10	<0.5	<2	>25.0	<0.5	6	1	57	0.20
1614777		1.39	<0.01	<0.2	0.56	<2	<10	100	0.5	<2	0.89	<0.5	7	13	25	1.95
1614778		1.00	0.22	0.5	0.50	3	<10	170	<0.5	<2	0.15	0.5	10	2	43	1.92
1614779		0.98	0.02	<0.2	0.62	2	<10	100	0.5	<2	0.15	<0.5	7	4	21	1.78
1614780		1.02	0.11	0.4	0.52	2	<10	280	<0.5	<2	0.11	<0.5	8	4	44	1.68
1614781		1.05	0.01	0.2	0.71	2	<10	130	<0.5	<2	0.23	<0.5	6	4	28	1.92
1614782		0.96	0.01	<0.2	0.95	<2	<10	130	<0.5	2	0.45	<0.5	8	5	18	2.23





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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
1614740		<10	<1	0.25	30	0.56	998	1	0.01	14	830	17	<0.01	<2	4	14
1614741		<10	<1	0.22	20	0.06	257	4	<0.01	18	320	388	0.03	<2	1	3
1614742		<10	1	0.17	60	1.16	751	2	0.01	76	1650	34	0.04	<2	8	30
1614751		<10	<1	0.50	20	0.33	1305	1	0.02	3	1010	6	<0.01	<2	6	9
1614752		10	<1	0.37	20	0.64	1550	1	0.02	7	1170	24	<0.01	<2	11	12
1614753		10	<1	0.35	20	0.77	1445	1	0.02	9	1060	23	0.02	<2	11	13
1614754		10	<1	0.35	10	0.89	1195	<1	0.03	8	1010	28	0.03	<2	10	12
1614755		10	<1	0.29	10	0.56	1035	1	0.02	5	1060	18	<0.01	<2	7	10
1614756		<10	<1	0.30	20	0.15	635	1	0.01	6	580	21	<0.01	<2	3	7
1614757		10	<1	0.29	30	0.69	1005	1	0.02	4	960	85	<0.01	<2	6	10
1614758		<10	<1	0.27	30	0.14	874	1	0.02	6	510	72	<0.01	<2	4	7
1614759		<10	<1	0.23	20	0.42	1290	3	0.02	13	890	44	<0.01	<2	8	9
1614760		<10	<1	0.29	40	0.05	352	1	0.01	5	390	50	<0.01	<2	1	5
1614761		<10	<1	0.32	30	0.13	228	<1	0.01	8	320	5	0.01	<2	2	5
1614762		<10	1	0.26	20	0.30	970	2	0.02	7	810	559	0.04	<2	4	10
1614763		<10	<1	0.23	20	0.30	592	<1	0.02	7	600	26	0.01	<2	4	8
1614764		<10	<1	0.27	20	0.15	394	4	0.01	6	460	41	<0.01	<2	3	6
1614765		<10	<1	0.22	20	0.18	409	<1	0.02	4	310	15	0.01	<2	2	7
1614766		<10	<1	0.37	40	0.41	530	1	0.01	13	540	17	0.02	<2	4	9
1614767		<10	<1	0.36	30	0.30	478	1	0.03	15	410	23	0.05	<2	2	8
1614768		<10	<1	0.29	30	0.38	865	1	0.03	11	660	17	0.03	<2	5	9
1614769		<10	<1	0.24	10	0.13	360	1	0.03	6	400	26	0.02	<2	2	6
1614770		<10	<1	0.28	20	0.06	281	1	0.03	4	440	8	0.02	<2	1	5
1614771		<10	<1	0.31	50	0.04	311	1	0.03	3	520	9	0.03	2	1	7
1614772		<10	1	0.33	30	0.13	379	1	0.03	9	580	28	0.02	<2	3	7
1614773		<10	<1	0.15	10	0.20	218	1	0.03	10	240	43	0.02	<2	2	12
1614774		<10	<1	0.28	30	0.03	343	1	0.02	3	380	8	0.02	<2	1	5
1614775		<10	<1	0.29	50	0.03	155	1	0.02	2	340	4	0.02	<2	1	7
1614776		<10	<1	0.01	<10	0.84	106	<1	0.02	4	90	<2	0.11	<2	<1	96
1614777		<10	<1	0.27	40	0.11	469	2	0.02	9	460	19	0.10	<2	3	13
1614778		<10	<1	0.29	40	0.05	828	2	0.02	3	420	53	0.07	<2	1	6
1614779		<10	<1	0.30	50	0.10	439	1	0.02	5	490	18	0.02	<2	2	7
1614780		<10	<1	0.31	50	0.07	597	2	0.03	4	380	20	0.06	<2	1	7
1614781		<10	<1	0.33	30	0.17	577	1	0.03	4	400	16	0.04	<2	2	8
1614782		<10	1	0.31	50	0.29	582	2	0.03	4	430	10	0.04	2	3	13



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Project: JPR

**CERTIFICATE OF ANALYSIS WH19105305**

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
1614740		<20	0.01	<10	<10	23	<10	87	0.01
1614741		20	<0.01	<10	<10	5	<10	144	0.06
1614742		<20	0.02	<10	<10	64	<10	142	0.05
1614751		<20	0.06	<10	<10	17	<10	73	0.03
1614752		<20	0.05	<10	<10	44	<10	110	0.02
1614753		<20	0.07	<10	<10	49	<10	112	0.01
1614754		<20	0.07	<10	<10	51	<10	119	0.01
1614755		<20	0.05	<10	<10	31	<10	96	0.01
1614756		20	0.01	<10	<10	13	<10	42	0.01
1614757		<20	0.02	<10	<10	23	<10	111	0.01
1614758		20	0.01	<10	<10	12	<10	52	0.02
1614759		<20	0.02	<10	<10	67	<10	92	0.03
1614760		30	0.01	<10	<10	7	<10	37	0.03
1614761		30	0.02	<10	<10	11	<10	28	0.07
1614762		<20	0.01	<10	<10	16	<10	318	0.11
1614763		<20	0.02	<10	<10	29	<10	56	0.02
1614764		20	0.02	<10	<10	14	<10	45	0.08
1614765		20	0.02	<10	<10	17	<10	39	0.02
1614766		20	0.04	<10	<10	26	<10	66	0.06
1614767		20	0.02	<10	<10	20	<10	62	0.02
1614768		20	0.03	<10	<10	30	<10	105	0.08
1614769		20	0.01	<10	<10	11	<10	48	0.01
1614770		30	0.01	<10	<10	7	<10	36	0.01
1614771		20	<0.01	<10	<10	6	<10	30	<0.01
1614772		20	0.02	<10	<10	14	<10	49	0.02
1614773		<20	0.04	<10	<10	32	<10	51	0.04
1614774		30	0.01	<10	<10	5	<10	22	0.01
1614775		30	0.01	<10	<10	6	<10	14	<0.01
1614776		<20	<0.01	<10	<10	1	<10	3	<0.01
1614777		20	<0.01	<10	<10	11	<10	38	<0.01
1614778		20	<0.01	<10	<10	5	<10	35	0.03
1614779		20	0.01	<10	<10	9	<10	39	0.01
1614780		<20	0.01	<10	<10	9	<10	23	0.03
1614781		20	0.02	<10	<10	12	<10	39	0.02
1614782		20	0.02	<10	<10	15	<10	52	0.01



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**CERTIFICATE OF ANALYSIS WH19105305**

**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-AA25	ME-ICP41
		ME-MS42