



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: January 27, 2021
Report Date: February 02, 2021
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CERTIFICATE OF ANALYSIS

WHI20000515.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	137	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
AQ200	137	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
FA430	137	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
SHP01	137	Per sample shipping charges for branch shipments			VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B695010	RC Chip	3.62	1.4	10.2	7.1	53	0.1	6.3	13.2	409	2.44	71.2	1.9	2.3	10.6	41	0.2	2.0	1.3	22	0.53
B695011	RC Chip	3.90	1.7	7.6	6.1	34	0.1	7.8	19.8	470	2.85	68.4	2.2	3.9	10.6	35	<0.1	2.7	0.7	25	0.60
B695012	RC Chip	3.06	1.4	3.1	7.2	27	0.1	4.7	6.0	463	2.12	16.2	1.6	1.6	19.0	28	<0.1	2.4	0.4	21	0.65
B695013	RC Chip	2.82	1.3	5.4	6.7	28	<0.1	4.7	10.2	495	2.06	16.5	1.7	1.2	12.7	38	<0.1	2.1	0.2	23	1.06
B695014	RC Chip	2.73	1.6	4.9	6.9	30	<0.1	4.4	5.7	510	2.18	7.9	2.7	0.8	13.6	61	<0.1	1.8	0.2	30	0.73
B695015	RC Chip	2.73	4.6	8.1	7.7	31	<0.1	4.6	9.2	558	2.18	11.8	2.7	0.8	14.1	65	0.1	2.3	0.2	29	0.77
B695016	RC Chip	2.63	1.5	6.4	5.9	26	<0.1	4.2	5.3	450	1.75	9.7	1.7	0.6	12.7	108	0.1	2.1	0.2	21	0.80
B695017	RC Chip	2.66	1.5	6.2	7.8	29	<0.1	4.5	7.3	570	1.96	12.6	2.2	0.9	13.6	56	0.1	2.4	0.1	22	0.84
B695018	RC Chip	2.80	1.5	7.2	7.1	28	<0.1	4.4	5.3	621	2.00	8.8	1.6	0.7	13.1	38	<0.1	2.0	<0.1	19	1.09
B695019	RC Chip	2.79	1.3	6.8	156.7	285	0.4	3.9	8.5	704	1.82	44.0	3.0	6.3	14.5	48	12.9	1.0	0.9	12	1.75
B695020	RC Chip	3.28	1.4	6.1	9.5	43	<0.1	4.3	3.4	539	1.88	7.2	1.9	1.6	13.6	29	1.0	1.3	0.3	16	1.14
B695021	RC Chip	3.68	1.6	19.6	12.1	35	0.2	4.5	7.5	585	1.90	7.2	2.2	4.4	13.7	40	0.4	1.6	1.1	13	0.81
B695022	RC Chip	3.68	1.2	14.4	21.8	15	0.8	2.2	3.2	180	2.29	69.2	2.6	51.3	12.0	96	<0.1	1.8	6.1	12	0.80
B695023	RC Chip	3.42	1.4	9.4	4.4	21	0.2	4.3	8.8	436	2.00	16.4	2.6	20.6	14.2	39	<0.1	0.9	1.4	9	1.04
B695024	RC Chip	3.28	1.4	13.0	4.8	28	<0.1	4.3	5.8	490	2.00	12.6	1.8	4.1	13.6	53	0.1	0.6	0.5	14	1.15
B695025	RC Chip	2.81	1.4	20.5	12.0	36	0.1	4.2	5.3	462	1.89	8.8	2.4	4.7	13.6	110	0.3	1.5	1.2	20	1.02
B695026	RC Chip	3.33	1.6	17.4	8.6	37	0.1	4.5	4.8	435	1.99	8.1	2.4	5.2	14.8	37	0.2	1.9	1.3	19	0.97
B695027	RC Chip	3.07	1.5	9.4	18.7	34	0.1	4.3	5.7	432	2.10	8.8	1.9	1.8	15.7	69	0.2	2.1	0.9	20	1.25
B695028	RC Chip	3.42	1.9	12.6	5.5	28	0.2	4.7	10.1	371	2.30	20.4	3.0	8.8	14.5	40	0.1	1.4	1.6	15	0.82
B695029	RC Chip	2.61	9.5	13.2	66.6	22	0.6	3.4	5.5	220	2.44	62.2	5.8	46.8	19.3	106	0.2	1.2	2.2	13	0.43
B695334	Rock DUP		8.7	12.5	63.7	21	0.5	3.3	5.4	218	2.40	58.5	5.6	45.0	19.2	105	0.2	1.2	2.1	12	0.44
B695030	RC Chip	2.85	1.3	16.9	56.0	21	0.5	3.1	4.1	178	2.49	18.7	5.2	9.0	14.2	152	0.1	1.5	1.2	14	0.29
B695031	RC Chip	3.20	1.6	11.2	230.1	33	1.1	4.6	12.1	557	3.34	25.4	5.5	43.2	14.3	226	0.2	2.0	2.9	17	0.54
B695032	RC Chip	2.68	1.4	6.4	29.4	26	0.3	4.1	7.6	470	2.39	9.8	3.4	22.5	13.7	67	<0.1	0.7	1.2	18	1.43
B695033	RC Chip	2.75	1.4	17.1	4.7	24	0.1	3.9	6.6	388	1.85	13.7	2.5	16.8	13.9	56	<0.1	1.4	0.6	17	1.08
B695034	RC Chip	2.85	1.6	13.0	8.6	26	0.1	3.5	4.4	356	1.74	5.9	2.5	7.1	13.8	33	0.3	1.9	1.0	20	0.89
B695035	RC Chip	2.75	1.6	11.2	6.8	28	0.1	4.0	7.2	372	1.93	8.9	2.4	6.7	13.1	55	0.1	1.6	1.1	17	0.91
B695036	RC Chip	2.77	2.5	55.5	14.3	27	0.5	5.1	11.5	306	2.05	52.8	6.5	102.4	13.8	160	0.3	2.3	4.4	15	0.70
B695037	RC Chip	3.23	2.2	31.6	5.0	25	0.2	4.4	7.5	359	2.17	9.8	2.1	4.7	13.2	105	<0.1	2.7	1.0	21	0.84
B695038	RC Chip	3.72	2.1	25.2	7.1	27	0.1	4.1	4.0	385	2.16	7.5	3.1	1.9	14.4	80	<0.1	2.5	0.5	26	0.88



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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B695010	RC Chip	0.064	8	8	0.39	106	0.055	<20	1.20	0.033	0.16	0.6	0.03	1.5	0.1	0.17	4	<0.5	<0.2	0.010
B695011	RC Chip	0.062	9	9	0.48	107	0.059	<20	1.28	0.033	0.16	1.5	0.01	2.0	0.2	0.21	4	<0.5	<0.2	0.035
B695012	RC Chip	0.064	9	9	0.43	78	0.064	<20	1.04	0.036	0.14	1.5	<0.01	1.5	0.1	<0.05	4	<0.5	<0.2	<0.005
B695013	RC Chip	0.065	10	9	0.40	83	0.067	<20	1.31	0.047	0.15	1.7	<0.01	1.6	0.1	0.12	4	<0.5	<0.2	0.005
B695014	RC Chip	0.065	12	11	0.46	80	0.074	<20	1.15	0.050	0.12	1.9	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2	<0.005
B695015	RC Chip	0.067	11	11	0.45	75	0.071	<20	1.22	0.053	0.13	2.0	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2	<0.005
B695016	RC Chip	0.062	8	9	0.36	93	0.058	<20	1.23	0.046	0.14	1.4	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2	<0.005
B695017	RC Chip	0.068	10	10	0.39	90	0.057	<20	1.21	0.044	0.18	0.9	<0.01	1.5	0.1	<0.05	4	<0.5	<0.2	<0.005
B695018	RC Chip	0.070	11	9	0.39	91	0.032	<20	1.18	0.036	0.23	0.8	<0.01	1.6	0.2	<0.05	4	<0.5	<0.2	<0.005
B695019	RC Chip	0.065	20	7	0.26	99	0.002	<20	1.10	0.022	0.33	0.6	<0.01	1.1	0.4	0.27	3	<0.5	<0.2	0.010
B695020	RC Chip	0.068	13	9	0.35	90	0.005	<20	1.00	0.031	0.26	0.7	<0.01	1.4	0.3	<0.05	3	<0.5	<0.2	<0.005
B695021	RC Chip	0.067	14	8	0.28	140	0.004	<20	1.05	0.023	0.33	0.5	<0.01	1.2	0.3	0.05	3	<0.5	<0.2	0.007
B695022	RC Chip	0.055	16	5	0.14	146	0.002	<20	0.75	0.042	0.32	0.6	0.02	0.8	0.3	0.82	2	<0.5	<0.2	0.055
B695023	RC Chip	0.070	21	7	0.25	122	0.002	<20	0.94	0.020	0.34	1.0	<0.01	1.0	0.4	0.37	2	<0.5	<0.2	0.027
B695024	RC Chip	0.069	18	7	0.38	105	0.002	<20	1.21	0.022	0.30	0.4	<0.01	1.3	0.4	0.12	3	<0.5	<0.2	0.121
B695025	RC Chip	0.071	15	10	0.39	130	0.005	<20	1.31	0.040	0.27	<0.1	<0.01	1.7	0.3	<0.05	4	<0.5	<0.2	0.010
B695026	RC Chip	0.074	13	10	0.44	81	0.011	<20	1.22	0.035	0.20	0.1	<0.01	1.7	0.2	0.06	4	<0.5	<0.2	0.008
B695027	RC Chip	0.067	13	9	0.42	104	0.012	<20	1.28	0.036	0.23	0.1	<0.01	1.8	0.3	0.06	4	<0.5	<0.2	0.010
B695028	RC Chip	0.069	14	8	0.34	121	0.007	<20	1.06	0.029	0.31	0.7	<0.01	1.5	0.3	0.47	3	<0.5	0.2	0.046
B695029	RC Chip	0.067	20	6	0.22	143	0.003	<20	1.05	0.045	0.30	0.5	<0.01	1.5	0.3	0.57	3	<0.5	0.2	0.060
B695334	Rock DUP	0.066	19	6	0.22	135	0.003	<20	1.03	0.044	0.29	0.5	<0.01	1.3	0.3	0.57	3	<0.5	<0.2	0.074
B695030	RC Chip	0.051	18	6	0.19	181	0.006	<20	1.04	0.061	0.32	0.2	<0.01	1.5	0.3	0.51	3	<0.5	<0.2	0.017
B695031	RC Chip	0.070	17	8	0.31	194	0.014	<20	0.95	0.061	0.30	2.3	<0.01	1.6	0.4	0.88	4	<0.5	0.8	0.037
B695032	RC Chip	0.070	15	9	0.32	96	0.004	<20	0.81	0.043	0.23	2.8	<0.01	1.5	0.3	0.72	3	<0.5	0.3	0.056
B695033	RC Chip	0.069	15	9	0.31	99	0.015	<20	0.89	0.037	0.24	1.6	<0.01	1.5	0.2	0.27	3	<0.5	<0.2	0.020
B695034	RC Chip	0.066	14	10	0.31	83	0.023	<20	0.89	0.042	0.19	0.8	<0.01	1.7	0.2	0.09	4	<0.5	<0.2	0.010
B695035	RC Chip	0.068	13	9	0.34	86	0.010	<20	0.97	0.032	0.20	0.6	<0.01	1.6	0.2	0.14	4	<0.5	<0.2	0.014
B695036	RC Chip	0.064	15	8	0.32	134	0.024	<20	0.93	0.035	0.22	1.2	<0.01	1.6	0.2	0.63	3	<0.5	0.2	0.077
B695037	RC Chip	0.066	12	11	0.39	91	0.024	<20	0.94	0.044	0.18	1.6	<0.01	1.8	0.2	0.38	4	<0.5	<0.2	0.012
B695038	RC Chip	0.068	13	13	0.40	83	0.026	<20	0.94	0.043	0.15	1.0	<0.01	2.0	0.2	0.12	4	<0.5	<0.2	0.020



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Method Analyte Unit MDL	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B695039	RC Chip	3.65	2.0	10.2	9.5	36	0.3	4.4	11.3	446	2.83	13.4	3.2	14.8	12.7	47	0.3	1.3	1.5	24	1.20
B695040	RC Chip	3.07	2.8	5.3	42.3	27	0.6	2.7	3.4	529	1.82	12.7	3.7	5.9	8.9	40	0.4	0.3	1.2	9	1.70
B695041	RC Chip	3.02	3.1	5.2	14.0	29	0.3	2.9	3.2	515	1.65	13.5	3.6	3.3	9.3	44	0.2	0.3	0.7	8	1.72
B695042	RC Chip	3.51	2.6	4.3	58.7	29	0.4	2.4	3.0	539	1.45	87.4	2.6	5.2	8.9	41	0.4	0.3	0.8	7	1.85
B695043	RC Chip	2.98	2.0	3.8	22.4	24	0.2	1.8	3.3	468	1.57	24.5	1.7	2.0	5.8	32	0.2	0.2	0.4	13	1.24
B695044	RC Chip	3.54	3.6	5.3	192.3	12	1.4	3.3	10.6	241	2.14	62.1	7.0	22.0	9.2	31	0.2	0.6	2.8	4	1.07
B695045	RC Chip	3.11	2.8	5.3	92.8	46	1.0	3.0	4.2	342	1.83	177.9	4.2	22.7	9.3	23	1.4	0.7	2.2	10	1.01
B695046	RC Chip	2.98	3.2	3.8	31.6	25	0.5	2.7	3.4	340	1.78	42.1	2.6	8.3	9.0	25	0.4	0.3	1.5	8	1.07
B695047	RC Chip	3.09	3.2	7.6	80.8	22	0.9	2.5	5.6	340	3.03	149.7	2.6	43.9	10.4	21	0.1	0.5	3.3	7	1.08
B695048	RC Chip	3.14	2.8	3.8	93.0	16	0.5	2.1	2.1	476	1.55	76.7	2.0	3.8	10.1	32	<0.1	0.2	1.1	8	1.44
B695049	RC Chip	3.50	3.3	26.9	165.8	13	1.7	3.5	9.5	406	2.54	390.3	2.7	51.4	10.5	27	0.2	0.5	4.0	6	1.32
B695050	RC Chip	3.87	3.0	10.2	43.9	20	1.2	3.5	3.4	424	2.10	161.6	1.8	36.7	7.9	30	0.2	0.7	3.9	6	1.24
B695051	RC Chip	3.31	3.8	3.1	18.8	17	0.5	3.1	4.5	252	1.70	40.7	2.6	37.2	8.6	33	<0.1	0.4	3.1	6	0.86
B695052	RC Chip	3.55	3.0	7.8	19.3	18	0.7	2.9	4.5	250	2.80	48.0	3.3	116.2	8.1	70	0.2	0.7	4.9	7	1.17
B695053	RC Chip	3.60	2.9	6.0	26.6	20	0.8	3.1	4.4	260	2.91	48.4	3.2	31.2	7.9	36	0.3	0.6	4.6	7	1.37
B695054	RC Chip	3.33	2.4	4.6	128.5	41	2.4	3.0	3.6	352	2.02	57.2	3.2	50.2	7.8	49	1.1	0.4	5.9	5	2.20
B695055	RC Chip	3.91	2.1	12.3	56.7	18	1.1	3.3	4.1	268	2.10	59.8	2.1	35.1	7.8	47	0.3	0.8	3.9	6	1.73
B695056	RC Chip	3.17	1.7	18.8	23.4	12	0.8	2.5	3.4	199	2.85	43.5	2.6	18.7	7.4	98	0.1	1.1	5.4	5	1.57
B695057	RC Chip	4.01	3.2	44.6	9.3	29	0.4	3.8	6.1	303	2.76	59.6	4.5	42.6	13.4	120	<0.1	1.4	2.8	24	1.17
B695058	RC Chip	4.20	2.0	53.4	8.5	37	0.3	4.7	6.1	418	2.77	36.9	2.4	124.7	12.6	33	0.1	1.7	3.4	34	0.97
B695059	RC Chip	3.40	3.5	19.7	8.2	26	0.2	4.2	7.6	349	2.35	33.5	3.0	7.6	13.4	38	<0.1	1.6	1.2	31	0.93
B695060	RC Chip	3.44	2.1	16.2	7.4	28	0.1	4.5	6.2	389	2.39	20.2	3.5	1.4	14.0	36	<0.1	1.7	0.8	33	0.92
B695061	RC Chip	4.27	5.3	11.2	6.4	28	<0.1	4.5	6.8	405	2.48	25.9	3.5	<0.5	13.9	43	<0.1	2.2	0.4	36	0.81
B695062	RC Chip	4.07	1.9	12.1	7.1	32	<0.1	4.5	7.1	486	2.61	19.0	3.8	1.0	15.1	161	<0.1	1.7	0.4	46	1.80
B695063	RC Chip	3.43	19.2	13.1	6.9	32	0.1	4.7	8.2	442	2.52	32.3	3.8	3.1	15.0	96	<0.1	2.2	0.5	40	1.15
B695064	RC Chip	1.82	13.2	29.8	8.4	34	0.3	5.4	9.7	456	2.62	128.2	3.6	52.2	14.6	91	0.1	2.2	1.6	38	1.20
B695065	RC Chip	1.59	3.7	25.7	11.1	35	0.3	4.9	7.4	386	2.65	140.1	3.8	6.2	14.9	55	0.2	1.7	1.3	36	1.01
B695066	RC Chip	1.34	3.8	38.5	7.9	30	0.4	5.4	8.4	387	2.63	119.5	3.8	10.8	15.4	43	0.1	1.5	2.0	31	0.95
B695067	RC Chip	1.76	31.8	53.1	4.6	27	0.3	5.0	8.6	362	2.36	71.2	3.3	7.3	13.9	33	<0.1	2.3	0.8	28	0.85
B695068	RC Chip	1.65	3.9	40.9	6.5	31	0.3	5.5	9.5	379	2.58	42.0	3.4	44.6	15.1	61	0.1	2.1	1.6	35	0.94



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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B695039	RC Chip	0.062	13	12	0.43	90	0.019	<20	0.98	0.040	0.19	11.4	<0.01	1.9	0.2	1.04	4	<0.5	0.2	0.016
B695040	RC Chip	0.044	12	7	0.30	90	0.002	<20	0.85	0.034	0.26	1.0	<0.01	0.7	0.2	0.59	4	<0.5	0.2	0.012
B695041	RC Chip	0.045	14	8	0.30	86	0.002	<20	0.89	0.033	0.27	1.0	<0.01	0.6	0.3	0.24	4	<0.5	<0.2	0.007
B695042	RC Chip	0.044	14	6	0.23	74	0.001	<20	0.75	0.024	0.28	0.6	<0.01	0.6	0.3	0.29	3	<0.5	<0.2	0.025
B695043	RC Chip	0.040	11	4	0.29	67	0.029	<20	0.76	0.050	0.18	0.6	<0.01	1.5	0.1	0.19	3	<0.5	<0.2	0.007
B695044	RC Chip	0.041	12	5	0.07	66	<0.001	<20	0.56	0.014	0.34	0.6	<0.01	0.5	0.4	1.97	1	<0.5	0.5	0.031
B695045	RC Chip	0.044	14	7	0.29	79	<0.001	<20	0.81	0.021	0.27	0.6	<0.01	0.7	0.3	0.84	4	<0.5	0.4	0.022
B695046	RC Chip	0.043	14	7	0.27	91	0.001	<20	0.80	0.023	0.28	0.7	<0.01	0.6	0.3	0.79	3	<0.5	0.2	0.025
B695047	RC Chip	0.044	11	6	0.21	84	0.003	<20	0.74	0.021	0.31	1.1	<0.01	0.6	0.3	2.03	3	<0.5	0.5	0.091
B695048	RC Chip	0.048	15	6	0.27	89	0.002	<20	0.83	0.026	0.32	0.7	<0.01	0.7	0.3	0.49	4	<0.5	<0.2	0.015
B695049	RC Chip	0.046	11	7	0.18	70	0.001	<20	0.72	0.022	0.34	1.0	<0.01	0.7	0.4	1.77	2	<0.5	1.0	0.161
B695050	RC Chip	0.042	11	7	0.24	65	0.001	<20	0.76	0.021	0.27	1.0	<0.01	0.4	0.3	1.15	3	<0.5	0.7	0.058
B695051	RC Chip	0.041	12	7	0.22	81	0.001	<20	0.77	0.027	0.28	0.8	<0.01	0.4	0.3	0.85	3	<0.5	0.5	0.027
B695052	RC Chip	0.040	10	6	0.22	87	0.001	<20	0.75	0.031	0.28	1.7	<0.01	0.4	0.3	2.39	3	<0.5	0.7	0.038
B695053	RC Chip	0.040	9	6	0.23	75	0.001	<20	0.76	0.029	0.29	2.1	<0.01	0.4	0.3	2.54	3	<0.5	0.7	0.055
B695054	RC Chip	0.042	9	5	0.14	70	<0.001	<20	0.61	0.028	0.30	0.9	<0.01	0.5	0.3	1.74	2	<0.5	1.4	0.173
B695055	RC Chip	0.037	10	6	0.15	71	0.001	<20	0.67	0.035	0.27	0.9	<0.01	0.5	0.3	1.74	2	<0.5	0.6	0.049
B695056	RC Chip	0.033	10	4	0.07	159	<0.001	<20	0.66	0.042	0.34	0.6	<0.01	0.4	0.4	2.53	2	<0.5	0.5	0.024
B695057	RC Chip	0.062	16	11	0.43	97	0.019	<20	1.04	0.047	0.24	2.5	<0.01	2.0	0.3	0.92	4	<0.5	0.2	0.049
B695058	RC Chip	0.068	14	14	0.64	52	0.069	<20	1.21	0.046	0.15	3.5	<0.01	2.5	0.2	0.46	5	<0.5	<0.2	0.021
B695059	RC Chip	0.065	11	14	0.49	52	0.058	<20	1.12	0.047	0.15	5.3	<0.01	2.0	0.2	0.30	4	<0.5	<0.2	0.011
B695060	RC Chip	0.065	11	15	0.56	43	0.084	<20	1.25	0.057	0.13	2.8	<0.01	2.2	0.2	0.07	5	<0.5	<0.2	<0.005
B695061	RC Chip	0.063	13	17	0.65	64	0.115	<20	1.30	0.066	0.15	3.0	<0.01	2.4	0.2	0.10	5	<0.5	<0.2	0.007
B695062	RC Chip	0.069	22	16	0.73	127	0.118	<20	1.82	0.067	0.20	1.5	<0.01	3.5	0.3	0.12	6	<0.5	<0.2	<0.005
B695063	RC Chip	0.065	16	14	0.63	89	0.089	<20	1.79	0.063	0.22	2.3	<0.01	2.9	0.3	0.16	6	<0.5	<0.2	0.008
B695064	RC Chip	0.068	16	18	0.60	76	0.070	<20	1.61	0.058	0.18	7.6	<0.01	2.9	0.3	0.24	5	<0.5	<0.2	0.106
B695065	RC Chip	0.069	14	17	0.56	58	0.051	<20	1.34	0.054	0.16	2.8	<0.01	2.8	0.2	0.34	6	<0.5	<0.2	0.026
B695066	RC Chip	0.068	13	20	0.48	61	0.031	<20	1.23	0.053	0.18	3.6	<0.01	2.5	0.2	0.37	5	<0.5	<0.2	0.038
B695067	RC Chip	0.070	10	18	0.49	62	0.057	<20	1.16	0.051	0.18	6.9	<0.01	2.1	0.2	0.34	5	<0.5	<0.2	0.015
B695068	RC Chip	0.066	14	19	0.60	94	0.081	<20	1.44	0.061	0.19	3.9	<0.01	2.4	0.2	0.36	5	<0.5	<0.2	0.097



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Method Analyte Unit MDL	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B695069	RC Chip	2.23	3.1	18.0	9.5	32	0.2	5.4	9.0	331	2.68	56.1	3.5	6.3	14.3	83	0.1	1.9	1.6	36	0.97
B695070	RC Chip	2.17	5.1	32.9	9.1	33	0.3	5.2	29.7	354	2.62	57.2	3.2	7.3	13.6	55	0.1	1.8	1.5	34	0.86
B695071	RC Chip	1.43	2.6	17.7	8.6	39	0.2	4.8	8.6	395	2.82	44.2	3.1	6.8	13.0	72	0.1	1.8	1.7	47	0.99
B695072	RC Chip	2.03	2.6	11.5	6.5	29	0.1	5.0	7.4	416	2.46	47.2	3.9	3.8	13.3	118	<0.1	1.7	0.7	34	0.97
B695073	RC Chip	1.69	3.1	14.7	7.6	29	0.1	5.0	7.3	414	2.49	88.4	3.9	3.2	14.3	67	0.1	1.7	1.0	35	0.79
B695074	RC Chip	2.06	4.4	16.6	9.5	29	0.2	5.1	7.7	442	2.57	93.1	3.5	7.7	14.5	70	0.1	1.9	1.2	34	0.91
B695075	RC Chip	1.54	1.6	18.8	19.1	26	0.4	7.2	10.6	485	2.13	50.8	2.5	9.4	13.2	59	0.2	1.7	1.7	27	1.40
B0054494	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0054495	RC Chip	2.44	1.5	14.9	16.1	25	0.4	6.4	10.1	475	2.08	46.7	1.9	4.9	13.3	56	0.2	2.0	1.7	24	1.28
B0054496	RC Chip	2.05	1.8	18.7	19.5	27	0.4	7.7	16.2	470	2.10	51.4	2.7	6.0	13.3	60	0.1	1.7	1.7	26	1.37
B0054497	RC Chip	3.93	1.4	7.8	7.0	28	<0.1	5.5	6.8	719	2.19	9.5	1.6	5.1	14.1	53	0.1	1.3	0.2	26	1.05
B0054498	RC Chip	2.85	1.5	3.2	8.7	27	<0.1	4.6	7.8	649	2.13	11.7	1.9	0.9	16.3	65	<0.1	1.7	0.2	25	1.14
B0054499	RC Chip	2.30	1.4	5.4	11.0	28	0.1	4.5	7.3	719	2.16	11.5	2.4	0.8	16.2	73	0.2	1.1	0.5	27	2.34
B695335	Rock DUP		1.3	5.8	10.9	29	<0.1	4.6	7.1	714	2.16	11.7	2.3	0.8	16.2	73	0.2	1.2	0.5	27	2.35
B0054500	RC Chip	1.36	1.6	7.6	10.1	26	0.3	4.2	5.3	413	1.93	8.0	1.7	0.8	13.6	112	0.1	1.5	17.3	23	1.73
B0054301	RC Chip	2.77	1.4	4.9	7.1	28	<0.1	4.5	7.0	422	2.26	8.3	2.6	<0.5	16.3	236	0.2	1.1	0.4	33	1.26
B0054302	RC Chip	3.03	1.5	17.0	8.0	22	0.2	3.8	7.3	347	1.83	11.8	2.2	17.0	15.8	151	0.4	0.6	6.3	26	1.61
B0054303	RC Chip	3.34	1.6	25.0	7.6	32	0.1	4.4	7.1	407	2.29	7.5	3.6	1.8	16.5	88	0.4	1.2	2.2	36	0.96
B0054304	RC Chip	3.36	1.8	25.5	8.7	29	0.2	4.3	6.3	368	2.20	13.7	3.4	5.3	15.0	95	0.4	1.3	2.7	34	1.01
B0054305	RC Chip	2.31	2.1	53.7	16.4	32	0.6	4.2	11.5	391	2.33	30.1	4.9	12.9	16.4	474	0.5	1.2	29.6	36	1.47
B0054306	RC Chip	2.66	2.2	21.9	10.6	30	0.2	4.5	9.1	402	2.30	16.0	3.1	4.4	17.1	176	0.3	1.3	6.7	32	1.11
B0054307	RC Chip	2.23	1.8	9.5	8.9	29	<0.1	4.8	7.6	384	2.19	12.1	2.3	1.0	15.9	162	0.1	1.4	2.5	31	0.97
B0054308	RC Chip	3.18	1.9	6.5	7.8	27	<0.1	4.7	6.5	386	2.19	11.0	2.0	<0.5	16.4	99	<0.1	1.7	1.2	29	0.83
B0054309	RC Chip	3.19	2.1	5.7	6.7	27	<0.1	5.0	7.9	451	2.27	11.5	2.3	<0.5	17.7	80	0.2	2.0	1.0	29	0.75
B0054310	RC Chip	2.33	2.0	10.1	6.3	24	<0.1	4.5	7.3	469	2.17	14.0	2.1	1.3	15.4	112	<0.1	1.6	1.0	26	0.97
B0054311	RC Chip	3.02	1.8	5.6	4.8	23	<0.1	4.3	6.9	599	2.17	7.9	1.9	<0.5	16.4	90	0.1	1.4	0.4	23	1.13
B0054312	RC Chip	4.34	14.1	7.3	7.0	26	0.1	4.5	9.0	568	2.44	19.2	3.2	6.0	17.5	112	0.3	1.4	0.7	29	1.04
B0054313	RC Chip	2.90	3.7	22.6	32.3	33	0.3	4.2	8.1	633	2.50	10.8	5.7	7.6	18.1	380	0.4	1.0	1.9	41	1.31
B0054314	RC Chip	3.31	3.0	13.6	211.5	96	2.1	4.3	8.1	987	2.60	18.4	5.5	9.3	16.7	72	3.9	1.2	4.3	19	1.84
B0054315	RC Chip	3.11	3.2	33.8	30.7	37	0.4	4.3	6.6	555	2.63	13.7	4.4	27.9	16.8	108	0.4	1.0	4.0	38	1.46

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B695069	RC Chip	0.068	16	18	0.65	67	0.108	<20	1.21	0.067	0.15	9.7	<0.01	2.7	0.2	0.68	5	<0.5	<0.2	0.031
B695070	RC Chip	0.064	14	20	0.59	66	0.082	<20	1.29	0.063	0.16	>100	<0.01	2.5	0.2	0.50	5	<0.5	<0.2	0.048
B695071	RC Chip	0.074	10	15	0.70	74	0.105	<20	1.54	0.071	0.20	7.7	<0.01	3.6	0.3	0.48	6	<0.5	<0.2	0.016
B695072	RC Chip	0.068	10	17	0.58	70	0.081	<20	1.58	0.076	0.16	8.9	<0.01	2.3	0.2	0.27	5	<0.5	<0.2	0.011
B695073	RC Chip	0.069	11	20	0.56	70	0.081	<20	1.32	0.062	0.15	6.4	<0.01	2.5	0.2	0.26	5	<0.5	<0.2	0.008
B695074	RC Chip	0.067	11	18	0.57	68	0.077	<20	1.37	0.062	0.15	7.8	<0.01	2.3	0.2	0.35	5	<0.5	<0.2	0.021
B695075	RC Chip	0.063	16	11	0.35	87	0.014	<20	1.76	0.043	0.24	1.8	<0.01	2.1	0.3	0.06	4	<0.5	<0.2	0.013
B0054494	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0054495	RC Chip	0.062	14	10	0.34	73	0.010	<20	1.67	0.039	0.23	0.5	<0.01	2.0	0.3	<0.05	4	<0.5	<0.2	0.011
B0054496	RC Chip	0.063	16	11	0.35	89	0.015	<20	1.71	0.043	0.24	35.9	<0.01	2.1	0.3	0.06	4	<0.5	<0.2	0.012
B0054497	RC Chip	0.071	13	9	0.45	91	0.015	<20	1.40	0.036	0.19	0.4	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2	<0.005
B0054498	RC Chip	0.070	12	9	0.45	87	0.033	<20	1.22	0.040	0.15	0.7	<0.01	1.9	0.2	0.07	4	<0.5	<0.2	0.006
B0054499	RC Chip	0.065	17	9	0.44	61	0.013	<20	1.46	0.034	0.16	1.5	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2	<0.005
B695335	Rock DUP	0.065	16	9	0.44	60	0.014	<20	1.49	0.036	0.17	1.1	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2	<0.005
B0054500	RC Chip	0.063	10	10	0.39	78	0.029	<20	2.06	0.069	0.14	0.9	<0.01	1.6	0.2	<0.05	4	<0.5	<0.2	<0.005
B0054301	RC Chip	0.069	14	11	0.50	119	0.040	<20	1.45	0.048	0.12	0.8	<0.01	2.0	0.1	<0.05	4	<0.5	<0.2	<0.005
B0054302	RC Chip	0.065	12	9	0.38	89	0.005	<20	1.73	0.057	0.13	0.5	<0.01	2.4	0.2	0.19	4	<0.5	0.4	0.028
B0054303	RC Chip	0.070	16	12	0.54	91	0.042	<20	1.25	0.048	0.14	0.7	<0.01	2.6	0.2	0.10	5	<0.5	<0.2	0.007
B0054304	RC Chip	0.069	12	12	0.46	70	0.043	<20	1.38	0.060	0.11	1.0	<0.01	2.1	0.1	<0.05	5	<0.5	0.5	0.019
B0054305	RC Chip	0.067	17	9	0.51	188	0.030	<20	2.14	0.085	0.12	0.4	<0.01	3.0	0.1	0.25	5	<0.5	3.8	0.053
B0054306	RC Chip	0.069	14	13	0.47	102	0.036	<20	1.45	0.062	0.13	1.1	<0.01	2.4	0.2	0.12	5	<0.5	0.8	0.011
B0054307	RC Chip	0.071	12	13	0.46	99	0.060	<20	1.28	0.053	0.12	2.9	<0.01	2.0	0.1	0.07	4	<0.5	0.2	0.008
B0054308	RC Chip	0.073	11	12	0.44	91	0.073	<20	1.22	0.051	0.14	1.7	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2	0.005
B0054309	RC Chip	0.074	11	14	0.46	91	0.077	<20	1.17	0.045	0.14	2.1	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2	0.005
B0054310	RC Chip	0.071	11	12	0.44	105	0.051	<20	1.24	0.047	0.19	0.9	<0.01	2.0	0.2	0.07	4	<0.5	<0.2	0.021
B0054311	RC Chip	0.074	12	11	0.44	89	0.037	<20	1.17	0.035	0.20	0.6	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2	<0.005
B0054312	RC Chip	0.070	14	12	0.45	92	0.031	<20	1.29	0.049	0.16	0.9	<0.01	2.3	0.2	0.26	4	<0.5	<0.2	0.009
B0054313	RC Chip	0.071	21	12	0.56	306	0.073	<20	1.52	0.065	0.36	1.2	<0.01	3.5	0.5	0.25	4	<0.5	0.2	0.017
B0054314	RC Chip	0.068	16	10	0.26	81	0.005	<20	0.93	0.035	0.22	1.5	<0.01	2.6	0.3	1.03	3	<0.5	0.9	0.015
B0054315	RC Chip	0.081	18	11	0.49	92	0.014	<20	1.29	0.049	0.18	1.1	<0.01	3.4	0.2	0.61	5	<0.5	0.5	0.013



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Project: Rude Creek
Report Date: February 02, 2021

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CERTIFICATE OF ANALYSIS

WHI20000515.1

Method Analyte Unit MDL	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B0054316	RC Chip	3.24	8.8	129.4	10.3	29	0.8	4.3	7.1	483	2.08	10.6	4.2	27.0	16.8	59	0.2	1.1	2.7	27	1.27
B0054317	RC Chip	1.08	2.7	23.8	19.4	33	0.3	4.9	10.2	494	2.18	15.4	3.0	5.9	15.5	45	0.2	1.3	1.2	27	1.16
B0054318	RC Chip	2.82	2.5	13.4	14.2	32	0.1	4.7	4.5	472	2.27	6.6	2.3	2.0	16.3	50	0.2	1.5	0.3	28	1.08
B0054319	RC Chip	2.92	2.3	13.4	6.2	25	0.1	4.9	8.5	463	2.30	34.5	2.8	12.9	16.2	96	<0.1	1.3	0.5	19	0.92
B0054320	RC Chip	2.75	2.2	18.6	10.9	26	0.3	5.8	12.9	485	2.85	259.4	5.6	33.1	16.2	66	0.1	2.0	0.9	17	0.76
B0054321	RC Chip	2.88	1.9	4.7	3.8	24	<0.1	4.0	6.5	461	2.13	23.4	3.7	3.5	17.0	75	<0.1	1.1	0.2	17	1.07
B0054322	RC Chip	3.25	1.9	3.6	9.9	28	<0.1	4.3	11.0	541	2.32	22.2	4.2	3.6	17.2	50	0.3	1.1	0.3	19	1.25
B0054323	RC Chip	3.42	1.9	9.0	39.2	36	0.3	4.3	8.7	594	2.19	17.9	3.7	2.3	15.6	54	0.7	1.6	0.4	18	1.12
B0054324	RC Chip	2.13	1.6	3.8	31.1	39	0.2	4.1	11.1	490	2.09	8.7	2.2	4.1	15.6	55	0.7	0.8	0.3	19	1.26
B0054325	RC Chip	3.39	1.8	5.6	13.0	39	<0.1	3.5	4.7	442	1.95	6.7	1.9	<0.5	14.7	49	0.8	1.1	0.2	21	1.09
B0054326	RC Chip	2.49	1.9	7.7	11.3	31	<0.1	4.2	6.8	441	2.34	10.6	2.2	1.0	15.3	53	0.3	1.4	0.1	33	0.89
B0054327	RC Chip	2.55	2.4	4.4	7.3	30	<0.1	4.6	7.6	426	2.34	15.2	2.1	1.7	14.8	45	0.1	1.2	0.2	32	0.75
B0054328	RC Chip	2.58	2.1	3.9	9.4	29	<0.1	4.6	6.6	406	2.22	12.6	2.3	1.1	14.0	37	0.2	1.4	0.1	27	0.72
B0054329	RC Chip	2.95	2.3	3.7	8.6	29	<0.1	4.9	8.7	467	2.38	15.7	2.1	0.5	13.6	50	0.1	1.4	0.2	32	0.89
B0054330	RC Chip	3.73	2.4	4.0	9.0	27	<0.1	4.7	8.3	460	2.52	13.9	2.2	<0.5	13.8	53	<0.1	1.4	0.1	32	0.79
B0054331	RC Chip	2.91	2.1	5.2	8.3	28	<0.1	4.7	7.2	431	2.45	11.2	2.6	2.1	12.6	57	0.2	1.3	0.2	37	0.78
B0054332	RC Chip	2.99	2.3	5.2	8.6	28	<0.1	4.5	7.2	369	2.43	9.0	2.5	2.7	12.4	65	0.2	1.1	0.2	38	0.82
B0054333	RC Chip	1.60	2.2	3.4	11.1	30	<0.1	5.9	7.1	391	2.18	7.9	1.9	1.8	12.8	41	0.2	1.2	0.3	30	0.94
B0054334	RC Chip	1.45	2.0	2.5	10.4	31	<0.1	4.6	41.6	426	2.09	8.5	1.9	5.0	14.7	31	0.3	1.1	0.2	24	1.12
B0054335	RC Chip	2.29	2.0	3.0	7.1	32	<0.1	5.7	8.5	437	2.67	13.7	2.0	1.9	16.4	42	0.2	1.4	0.3	36	0.78
B0054336	RC Chip	2.09	2.2	5.5	8.3	35	<0.1	6.8	11.2	565	3.32	15.3	2.4	1.1	22.6	78	0.1	2.0	0.2	46	0.87
B0054337	RC Chip	1.79	2.4	5.2	9.1	29	<0.1	5.1	7.7	405	2.33	10.4	1.8	1.1	13.5	53	0.2	1.5	0.2	28	0.92
B0054338	RC Chip	1.74	2.9	17.5	9.4	28	0.2	4.4	9.0	423	2.11	25.0	3.4	4.7	16.5	53	0.5	2.0	0.4	22	0.74
B0054339	RC Chip	2.53	2.6	8.9	10.2	36	<0.1	4.9	5.9	421	2.23	11.6	2.9	1.0	20.1	46	0.4	1.7	0.2	28	0.80
B0054340	RC Chip	1.49	3.2	23.5	9.5	32	0.2	4.8	8.5	380	2.63	65.9	4.3	23.1	15.5	53	0.3	1.8	0.9	30	0.81
B0054341	RC Chip	2.01	2.5	18.1	9.1	28	0.1	5.0	8.0	403	2.53	23.2	3.5	4.0	17.0	67	0.2	1.4	0.5	37	0.82
B0054342	RC Chip	1.87	2.8	18.6	8.6	27	0.1	4.8	8.4	417	2.36	27.3	4.5	2.2	16.9	58	0.1	1.4	0.4	28	0.75
B0054343	RC Chip	1.97	39.3	4.7	10.1	38	<0.1	4.8	8.3	367	2.32	20.0	2.5	2.8	16.7	66	0.4	2.2	0.4	29	0.68
B0054344	RC Chip	2.01	2.3	6.1	8.7	28	<0.1	4.4	7.4	399	2.22	16.2	3.0	1.7	16.0	67	0.3	1.1	0.2	27	0.73
B0054345	RC Chip	1.63	2.4	2.7	12.5	22	0.1	4.3	7.3	395	1.77	10.9	3.5	2.6	16.8	30	0.1	0.9	0.4	27	0.96



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B0054316	RC Chip	0.071	18	11	0.39	92	0.014	<20	0.98	0.041	0.20	2.3	<0.01	2.3	0.2	0.31	4	<0.5	0.3	0.021
B0054317	RC Chip	0.072	15	12	0.38	98	0.028	<20	1.08	0.047	0.21	2.6	<0.01	2.4	0.2	0.19	4	<0.5	<0.2	0.017
B0054318	RC Chip	0.072	15	14	0.42	90	0.041	<20	1.07	0.041	0.17	1.0	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2	<0.005
B0054319	RC Chip	0.071	16	11	0.33	126	0.017	<20	1.10	0.038	0.25	1.2	<0.01	1.9	0.3	0.26	3	<0.5	<0.2	0.016
B0054320	RC Chip	0.069	14	11	0.34	108	0.015	<20	1.11	0.032	0.26	1.9	<0.01	2.0	0.3	0.91	3	<0.5	<0.2	0.058
B0054321	RC Chip	0.073	20	11	0.30	116	0.007	<20	1.00	0.036	0.26	0.7	<0.01	1.6	0.2	0.06	3	<0.5	<0.2	0.005
B0054322	RC Chip	0.077	20	10	0.35	112	0.006	<20	1.02	0.033	0.26	1.0	<0.01	1.7	0.2	0.14	3	<0.5	<0.2	0.014
B0054323	RC Chip	0.076	18	9	0.34	130	0.015	<20	1.15	0.043	0.31	0.6	<0.01	1.7	0.3	0.12	3	<0.5	<0.2	0.006
B0054324	RC Chip	0.072	19	10	0.39	104	0.005	<20	1.07	0.035	0.26	0.5	<0.01	1.7	0.3	0.10	4	<0.5	<0.2	0.005
B0054325	RC Chip	0.079	18	10	0.39	125	0.024	<20	1.09	0.042	0.25	0.4	<0.01	1.7	0.3	<0.05	4	<0.5	<0.2	<0.005
B0054326	RC Chip	0.076	14	14	0.47	84	0.082	<20	1.18	0.050	0.15	1.4	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2	0.007
B0054327	RC Chip	0.073	14	13	0.50	81	0.078	<20	1.14	0.049	0.15	1.8	<0.01	2.2	0.2	0.06	5	<0.5	<0.2	0.006
B0054328	RC Chip	0.072	13	14	0.44	69	0.077	<20	1.07	0.043	0.14	2.5	<0.01	2.0	0.1	<0.05	5	<0.5	<0.2	<0.005
B0054329	RC Chip	0.076	13	14	0.50	66	0.075	<20	1.21	0.046	0.13	1.9	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2	<0.005
B0054330	RC Chip	0.072	14	16	0.49	60	0.069	<20	1.12	0.044	0.12	2.1	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2	<0.005
B0054331	RC Chip	0.070	15	16	0.50	86	0.087	<20	1.18	0.053	0.14	1.8	<0.01	2.6	0.2	<0.05	5	<0.5	<0.2	<0.005
B0054332	RC Chip	0.070	16	16	0.49	61	0.081	<20	1.23	0.063	0.11	2.0	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2	0.010
B0054333	RC Chip	0.071	12	16	0.45	71	0.062	<20	1.00	0.043	0.16	3.4	<0.01	2.2	0.2	0.05	4	<0.5	<0.2	0.006
B0054334	RC Chip	0.071	10	15	0.43	69	0.042	<20	0.98	0.038	0.19	>100	0.03	1.8	0.2	0.07	4	<0.5	<0.2	0.006
B0054335	RC Chip	0.089	14	15	0.61	63	0.090	<20	1.21	0.041	0.15	2.9	<0.01	2.4	0.2	0.08	5	<0.5	<0.2	0.008
B0054336	RC Chip	0.104	17	17	0.75	93	0.110	<20	1.57	0.048	0.19	7.1	<0.01	3.6	0.2	0.06	6	<0.5	<0.2	0.006
B0054337	RC Chip	0.073	11	16	0.48	62	0.067	<20	1.16	0.046	0.15	3.2	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2	0.009
B0054338	RC Chip	0.072	10	14	0.39	99	0.060	<20	1.17	0.060	0.21	5.6	<0.01	1.9	0.2	0.13	4	<0.5	<0.2	0.017
B0054339	RC Chip	0.072	13	16	0.45	70	0.069	<20	1.16	0.049	0.14	2.4	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2	<0.005
B0054340	RC Chip	0.074	13	16	0.51	83	0.067	<20	1.26	0.053	0.17	5.0	<0.01	2.4	0.2	0.24	5	<0.5	<0.2	0.031
B0054341	RC Chip	0.079	16	17	0.54	71	0.087	<20	1.29	0.059	0.16	2.9	<0.01	2.7	0.2	0.08	5	<0.5	<0.2	0.019
B0054342	RC Chip	0.073	13	17	0.48	87	0.069	<20	1.30	0.066	0.19	4.4	<0.01	2.3	0.2	0.10	5	<0.5	<0.2	0.007
B0054343	RC Chip	0.073	13	16	0.47	82	0.070	<20	1.15	0.055	0.17	3.9	<0.01	2.1	0.2	0.13	5	<0.5	<0.2	0.016
B0054344	RC Chip	0.068	13	15	0.45	82	0.067	<20	1.12	0.054	0.17	3.4	<0.01	2.1	0.2	0.10	4	<0.5	<0.2	0.008
B0054345	RC Chip	0.074	15	15	0.39	74	0.045	<20	0.93	0.050	0.19	3.1	<0.01	2.6	0.2	0.16	4	<0.5	<0.2	0.009



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Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B0054346	RC Chip	1.84	2.8	5.3	13.7	36	0.1	4.1	6.2	505	2.17	31.0	5.5	9.3	16.3	43	0.7	0.9	0.5	22	1.22
B0054347	RC Chip	1.61	3.4	8.6	25.3	41	<0.1	4.5	4.5	548	2.24	7.4	2.7	0.9	15.6	44	0.6	0.8	0.2	23	1.45
B0054348	RC Chip	1.70	2.9	11.3	10.1	31	<0.1	4.7	7.7	426	2.15	14.4	2.8	4.0	14.9	44	0.3	1.3	0.4	26	0.87
B0054349	RC Chip	1.88	3.1	18.1	11.1	31	0.1	4.7	5.7	338	2.02	9.2	2.0	<0.5	14.0	47	0.4	1.3	0.8	29	0.84
B0054350	RC Chip	1.53	9.2	27.3	14.7	49	0.2	4.6	11.0	386	2.29	10.8	2.2	4.5	13.2	41	0.6	1.3	1.9	31	1.10
B695001	RC Chip	1.30	3.2	43.2	13.7	41	0.3	4.5	11.3	395	2.29	19.0	2.6	5.4	13.4	62	0.9	1.4	4.2	33	1.17
B695002	RC Chip	2.17	3.1	3.0	4.1	28	<0.1	3.7	7.7	314	1.87	21.0	3.1	3.5	22.5	36	0.3	1.2	0.6	24	1.04
B695003	RC Chip	1.70	4.1	25.5	11.6	42	0.2	4.2	8.4	393	2.04	19.6	2.7	26.8	17.9	92	0.8	1.2	1.9	26	1.57
B695004	RC Chip	1.42	5.5	14.4	9.3	29	0.2	4.1	7.5	332	1.93	23.9	2.9	4.5	15.0	46	0.8	1.4	1.0	23	0.97
B695005	RC Chip	2.06	3.1	35.4	9.4	29	0.2	4.9	6.1	349	2.38	9.8	1.9	1.3	19.7	53	0.1	1.7	1.3	37	0.79
B695006	RC Chip	1.78	3.3	11.7	5.3	34	<0.1	5.6	6.8	425	2.44	31.2	3.1	8.9	18.9	30	<0.1	0.9	1.0	32	1.30
B695007	RC Chip	1.36	2.6	23.6	11.4	51	0.4	5.0	13.8	648	2.92	46.9	3.3	138.2	16.7	36	0.7	1.0	1.9	25	1.62
B695008	RC Chip	1.36	2.5	6.5	10.1	33	0.3	5.0	18.2	452	2.57	52.4	3.7	18.9	13.0	33	0.2	0.8	1.6	22	1.65
B695009	RC Chip	1.56	2.7	20.0	8.4	29	0.1	4.6	12.3	377	2.28	16.4	2.7	11.8	14.4	33	0.1	0.9	0.6	30	1.34
B695076	RC Chip	2.28	1.8	22.6	42.0	57	0.6	7.0	9.5	435	2.35	12.8	3.2	6.8	15.4	83	1.3	1.3	4.6	34	0.59
B695077	RC Chip	2.99	1.6	20.0	32.8	40	0.5	5.9	8.2	380	2.27	11.3	3.9	5.8	15.1	130	0.8	1.2	2.0	34	0.78
B695078	RC Chip	2.40	1.2	4.7	16.5	29	0.1	4.9	8.0	339	2.16	9.5	2.6	1.7	16.4	70	0.2	1.0	0.4	35	0.78
B695079	RC Chip	3.49	1.3	5.9	20.6	35	0.1	4.3	6.2	394	2.38	7.4	2.3	1.2	15.3	55	0.3	1.0	0.2	34	0.90



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Project: Rude Creek
Report Date: February 02, 2021

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CERTIFICATE OF ANALYSIS

WHI20000515.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.005	
B0054346	RC Chip	0.069	18	14	0.36	72	0.012	<20	1.19	0.040	0.24	1.6	<0.01	2.1	0.3	0.32	4	<0.5	<0.2	0.015
B0054347	RC Chip	0.071	18	15	0.39	65	0.009	<20	1.13	0.039	0.22	1.0	<0.01	2.0	0.3	<0.05	4	<0.5	<0.2	0.006
B0054348	RC Chip	0.073	13	15	0.45	93	0.062	<20	1.20	0.058	0.22	2.2	<0.01	2.4	0.2	0.11	4	<0.5	<0.2	0.010
B0054349	RC Chip	0.069	12	17	0.45	88	0.084	<20	1.04	0.054	0.18	3.4	0.01	2.6	0.2	0.08	5	<0.5	<0.2	0.006
B0054350	RC Chip	0.069	13	16	0.48	65	0.074	<20	1.21	0.052	0.16	4.1	0.01	2.1	0.2	0.12	5	<0.5	<0.2	0.009
B695001	RC Chip	0.074	14	14	0.49	78	0.068	<20	1.38	0.056	0.20	2.4	<0.01	2.4	0.3	0.21	5	<0.5	<0.2	0.017
B695002	RC Chip	0.071	13	13	0.49	86	0.041	<20	1.18	0.052	0.28	2.3	<0.01	2.2	0.3	0.30	4	<0.5	<0.2	0.009
B695003	RC Chip	0.068	13	13	0.45	96	0.032	<20	1.80	0.066	0.28	1.4	<0.01	2.2	0.4	0.21	4	<0.5	<0.2	0.017
B695004	RC Chip	0.073	13	13	0.37	91	0.034	<20	1.20	0.047	0.24	2.1	<0.01	2.0	0.3	0.21	4	<0.5	<0.2	0.013
B695005	RC Chip	0.082	17	20	0.47	80	0.085	<20	1.13	0.051	0.18	3.4	<0.01	2.6	0.2	0.06	5	<0.5	<0.2	0.005
B695006	RC Chip	0.089	16	17	0.48	100	0.056	<20	1.16	0.042	0.29	2.9	<0.01	2.6	0.3	0.35	5	<0.5	<0.2	0.016
B695007	RC Chip	0.067	14	13	0.51	84	0.020	<20	1.19	0.037	0.28	2.9	<0.01	2.2	0.4	0.82	5	<0.5	0.5	0.033
B695008	RC Chip	0.088	15	11	0.45	101	0.025	<20	1.09	0.041	0.30	2.6	<0.01	2.2	0.4	0.98	4	<0.5	0.3	0.036
B695009	RC Chip	0.077	15	16	0.46	73	0.042	<20	1.06	0.048	0.20	3.4	<0.01	2.5	0.3	0.37	5	<0.5	<0.2	0.026
B695076	RC Chip	0.072	17	12	0.41	121	0.042	<20	1.40	0.040	0.18	0.5	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2	0.013
B695077	RC Chip	0.073	15	11	0.40	109	0.046	<20	1.42	0.044	0.18	0.5	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2	0.010
B695078	RC Chip	0.076	12	10	0.39	77	0.070	<20	1.11	0.051	0.17	1.1	<0.01	2.2	0.2	<0.05	5	<0.5	<0.2	<0.005
B695079	RC Chip	0.071	13	12	0.49	58	0.079	<20	1.28	0.046	0.13	1.4	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2	<0.005



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QUALITY CONTROL REPORT

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Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
B695019	RC Chip	2.79	1.3	6.8	156.7	285	0.4	3.9	8.5	704	1.82	44.0	3.0	6.3	14.5	48	12.9	1.0	0.9	12	1.75
REP B695019	QC		1.2	7.0	153.0	278	0.4	3.9	8.4	703	1.82	43.8	2.8	10.5	14.1	48	12.4	1.0	0.8	12	1.77
B695036	RC Chip	2.77	2.5	55.5	14.3	27	0.5	5.1	11.5	306	2.05	52.8	6.5	102.4	13.8	160	0.3	2.3	4.4	15	0.70
REP B695036	QC																				
B695053	RC Chip	3.60	2.9	6.0	26.6	20	0.8	3.1	4.4	260	2.91	48.4	3.2	31.2	7.9	36	0.3	0.6	4.6	7	1.37
REP B695053	QC		3.0	5.8	27.4	20	0.8	3.0	4.3	261	2.91	50.1	3.4	19.3	8.1	36	0.2	0.7	4.7	7	1.37
B695069	RC Chip	2.23	3.1	18.0	9.5	32	0.2	5.4	9.0	331	2.68	56.1	3.5	6.3	14.3	83	0.1	1.9	1.6	36	0.97
REP B695069	QC																				
B0054306	RC Chip	2.66	2.2	21.9	10.6	30	0.2	4.5	9.1	402	2.30	16.0	3.1	4.4	17.1	176	0.3	1.3	6.7	32	1.11
REP B0054306	QC		2.2	22.4	10.5	32	0.2	4.4	8.8	403	2.31	16.2	3.1	4.3	17.4	181	0.3	1.3	6.9	32	1.10
B0054328	RC Chip	2.58	2.1	3.9	9.4	29	<0.1	4.6	6.6	406	2.22	12.6	2.3	1.1	14.0	37	0.2	1.4	0.1	27	0.72
REP B0054328	QC																				
B0054340	RC Chip	1.49	3.2	23.5	9.5	32	0.2	4.8	8.5	380	2.63	65.9	4.3	23.1	15.5	53	0.3	1.8	0.9	30	0.81
REP B0054340	QC		3.3	23.4	9.9	31	0.2	4.6	8.3	372	2.57	68.2	4.3	27.3	15.4	54	0.3	1.8	0.9	30	0.80
B695009	RC Chip	1.56	2.7	20.0	8.4	29	0.1	4.6	12.3	377	2.28	16.4	2.7	11.8	14.4	33	0.1	0.9	0.6	30	1.34
REP B695009	QC																				
Core Reject Duplicates																					
B695063	RC Chip	3.43	19.2	13.1	6.9	32	0.1	4.7	8.2	442	2.52	32.3	3.8	3.1	15.0	96	<0.1	2.2	0.5	40	1.15
DUP B695063	QC		19.4	13.0	6.8	32	0.1	4.8	8.3	440	2.54	34.0	3.9	4.5	14.5	99	0.1	2.4	0.5	40	1.14
B0054314	RC Chip	3.31	3.0	13.6	211.5	96	2.1	4.3	8.1	987	2.60	18.4	5.5	9.3	16.7	72	3.9	1.2	4.3	19	1.84
DUP B0054314	QC		2.9	13.4	216.0	88	2.1	4.0	7.6	1009	2.53	16.1	5.4	8.3	17.2	71	3.6	1.3	4.1	19	1.91
B0054348	RC Chip	1.70	2.9	11.3	10.1	31	<0.1	4.7	7.7	426	2.15	14.4	2.8	4.0	14.9	44	0.3	1.3	0.4	26	0.87
DUP B0054348	QC		3.0	12.1	10.1	31	<0.1	4.9	8.0	437	2.23	15.2	2.9	2.0	14.6	43	0.3	1.3	0.4	27	0.88
Reference Materials																					
STD BVGE001	Standard		9.7	4179.5	181.9	1634	2.6	155.5	24.8	671	3.53	121.9	3.8	213.9	16.0	54	7.1	2.7	27.3	70	1.24
STD DS11	Standard		13.4	142.0	126.2	331	1.6	77.0	13.0	992	2.99	39.6	2.1	61.8	6.3	61	2.2	7.6	10.0	44	0.99
STD DS11	Standard		13.8	144.2	137.0	330	1.8	78.4	14.0	999	3.01	46.2	2.7	60.8	9.0	66	2.7	7.7	12.7	47	1.02
STD DS11	Standard		15.1	157.5	149.2	361	1.7	82.0	14.6	1085	3.29	48.2	2.7	73.2	9.0	67	2.5	7.6	12.9	48	1.10



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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
Pulp Duplicates																				
B695019	RC Chip	0.065	20	7	0.26	99	0.002	<20	1.10	0.022	0.33	0.6	<0.01	1.1	0.4	0.27	3	<0.5	<0.2	0.010
REP B695019	QC	0.067	19	7	0.26	97	0.002	<20	1.09	0.022	0.32	0.5	<0.01	1.1	0.4	0.26	3	<0.5	<0.2	
B695036	RC Chip	0.064	15	8	0.32	134	0.024	<20	0.93	0.035	0.22	1.2	<0.01	1.6	0.2	0.63	3	<0.5	0.2	0.077
REP B695036	QC																			0.073
B695053	RC Chip	0.040	9	6	0.23	75	0.001	<20	0.76	0.029	0.29	2.1	<0.01	0.4	0.3	2.54	3	<0.5	0.7	0.055
REP B695053	QC	0.040	9	6	0.22	76	0.001	<20	0.77	0.030	0.29	2.0	<0.01	0.4	0.3	2.47	3	<0.5	0.7	
B695069	RC Chip	0.068	16	18	0.65	67	0.108	<20	1.21	0.067	0.15	9.7	<0.01	2.7	0.2	0.68	5	<0.5	<0.2	0.031
REP B695069	QC																			0.016
B0054306	RC Chip	0.069	14	13	0.47	102	0.036	<20	1.45	0.062	0.13	1.1	<0.01	2.4	0.2	0.12	5	<0.5	0.8	0.011
REP B0054306	QC	0.073	15	12	0.48	107	0.033	<20	1.44	0.064	0.13	1.0	<0.01	2.4	0.2	0.12	5	<0.5	1.1	
B0054328	RC Chip	0.072	13	14	0.44	69	0.077	<20	1.07	0.043	0.14	2.5	<0.01	2.0	0.1	<0.05	5	<0.5	<0.2	<0.005
REP B0054328	QC																			0.008
B0054340	RC Chip	0.074	13	16	0.51	83	0.067	<20	1.26	0.053	0.17	5.0	<0.01	2.4	0.2	0.24	5	<0.5	<0.2	0.031
REP B0054340	QC	0.075	13	15	0.49	80	0.067	<20	1.23	0.051	0.17	3.6	<0.01	2.4	0.2	0.24	5	<0.5	<0.2	
B695009	RC Chip	0.077	15	16	0.46	73	0.042	<20	1.06	0.048	0.20	3.4	<0.01	2.5	0.3	0.37	5	<0.5	<0.2	0.026
REP B695009	QC																			0.018
Core Reject Duplicates																				
B695063	RC Chip	0.065	16	14	0.63	89	0.089	<20	1.79	0.063	0.22	2.3	<0.01	2.9	0.3	0.16	6	<0.5	<0.2	0.008
DUP B695063	QC	0.064	15	15	0.62	90	0.088	<20	1.77	0.065	0.22	2.4	<0.01	2.8	0.3	0.16	6	<0.5	<0.2	0.007
B0054314	RC Chip	0.068	16	10	0.26	81	0.005	<20	0.93	0.035	0.22	1.5	<0.01	2.6	0.3	1.03	3	<0.5	0.9	0.015
DUP B0054314	QC	0.072	17	9	0.26	83	0.005	<20	0.95	0.035	0.23	1.3	<0.01	2.5	0.3	0.94	3	<0.5	0.9	0.016
B0054348	RC Chip	0.073	13	15	0.45	93	0.062	<20	1.20	0.058	0.22	2.2	<0.01	2.4	0.2	0.11	4	<0.5	<0.2	0.010
DUP B0054348	QC	0.071	12	16	0.45	92	0.063	<20	1.20	0.057	0.21	2.0	<0.01	2.5	0.2	0.11	5	<0.5	<0.2	0.018
Reference Materials																				
STD BVGEO01	Standard	0.076	28	153	1.25	330	0.233	<20	2.14	0.183	0.85	4.0	0.11	5.8	0.6	0.66	7	4.8	1.1	
STD DS11	Standard	0.066	16	56	0.80	370	0.083	<20	1.08	0.068	0.38	2.8	0.22	3.0	4.7	0.26	5	2.1	4.5	
STD DS11	Standard	0.072	19	55	0.82	407	0.086	<20	1.10	0.072	0.39	2.4	0.26	3.1	4.9	0.28	5	2.0	4.6	
STD DS11	Standard	0.075	18	61	0.87	446	0.088	<20	1.17	0.075	0.42	3.2	0.29	3.2	5.2	0.29	5	2.0	4.5	



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QUALITY CONTROL REPORT

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		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
STD OREAS262	Standard		0.6	112.6	51.1	147	0.5	63.3	27.0	532	3.26	34.9	1.0	72.3	8.0	35	0.6	4.0	0.9	20	2.98	
STD OREAS262	Standard		0.7	111.7	50.8	144	0.5	61.9	26.0	514	3.19	34.0	1.0	70.1	8.3	34	0.6	3.6	0.9	20	2.88	
STD OREAS262	Standard		0.6	113.6	55.8	151	0.5	61.9	26.6	513	3.18	37.5	1.2	62.6	10.1	37	0.7	3.5	1.1	21	2.82	
STD OREAS262	Standard		0.5	113.1	55.3	151	0.5	62.6	27.2	518	3.23	36.7	1.2	56.6	9.9	35	0.6	3.2	1.1	21	2.82	
STD OREAS262	Standard		0.6	121.1	58.1	151	0.5	68.6	29.4	562	3.52	39.4	1.2	59.1	10.3	37	0.7	3.0	1.1	22	3.20	
STD OXB130	Standard																					
STD OXB130	Standard																					
STD OXB130	Standard																					
STD OXG141	Standard																					
STD OXG141	Standard																					
STD OXG141	Standard																					
STD OXN155	Standard																					
STD OXN155	Standard																					
STD OXN155	Standard																					
STD BVGEO01 Expected			10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	1.3219	
STD OXG141 Expected																						
STD OXN155 Expected																						
STD OXB130 Expected																						
STD DS11 Expected			13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98	
BLK	Blank																					
BLK	Blank																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank																					



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: February 02, 2021

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QUALITY CONTROL REPORT

WHI20000515.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
STD OREAS262	Standard	0.038	14	41	1.16	224	0.003	<20	1.17	0.067	0.29	0.1	0.17	3.1	0.4	0.25	4	<0.5	0.3		
STD OREAS262	Standard	0.038	15	41	1.12	227	0.002	<20	1.19	0.067	0.29	0.1	0.16	3.0	0.4	0.24	4	<0.5	0.2		
STD OREAS262	Standard	0.039	17	40	1.16	253	0.003	<20	1.17	0.068	0.29	0.1	0.15	3.7	0.5	0.26	4	<0.5	0.2		
STD OREAS262	Standard	0.041	17	39	1.17	254	0.003	<20	1.18	0.068	0.30	0.1	0.15	3.6	0.5	0.26	4	0.6	0.2		
STD OREAS262	Standard	0.043	16	45	1.24	274	0.003	<20	1.27	0.072	0.31	<0.1	0.17	3.1	0.5	0.27	4	<0.5	0.2		
STD OXB130	Standard																			0.124	
STD OXB130	Standard																				0.127
STD OXB130	Standard																				0.121
STD OXG141	Standard																				0.929
STD OXG141	Standard																				0.924
STD OXG141	Standard																				0.924
STD OXN155	Standard																				7.624
STD OXN155	Standard																				7.664
STD OXN155	Standard																				7.626
STD BVGEO01 Expected		0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02		
STD OXG141 Expected																					0.93
STD OXN155 Expected																					7.762
STD OXB130 Expected																					0.125
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56		
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23		
BLK	Blank																				<0.005
BLK	Blank																				<0.005
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				0.008
BLK	Blank																				0.007
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				<0.005



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Project: Rude Creek
Report Date: February 02, 2021

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QUALITY CONTROL REPORT

WHI20000515.1

		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	1	0.01
BLK	Blank																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																						
ROCK-WHI	Prep Blank		0.8	1.3	1.1	66	<0.1	1.0	3.0	398	1.73	1.1	0.4	1.4	2.1	18	0.2	0.1	<0.1	19	0.58	
ROCK-WHI	Prep Blank		0.8	2.7	0.9	44	<0.1	1.0	3.1	393	1.71	1.0	0.4	<0.5	2.2	21	<0.1	<0.1	<0.1	20	0.60	



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QUALITY CONTROL REPORT

WHI20000515.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	<0.005
Prep Wash																				
ROCK-WHI	Prep Blank	0.034	6	2	0.38	46	0.068	<20	0.77	0.072	0.08	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2	<0.005
ROCK-WHI	Prep Blank	0.034	6	2	0.37	51	0.075	<20	0.78	0.076	0.08	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2	<0.005



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
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Client: **0890763 B.C. Ltd**
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: January 29, 2021
Report Date: February 08, 2021
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI20000518.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	138	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
FA430	138	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
Report Date: February 08, 2021

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CERTIFICATE OF ANALYSIS

WHI20000518.1

Method Analyte	Unit MDL	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
B695082	RC Chip	3.42	1.3	4.9	9.8	26	<0.1	4.4	6.3	467	2.26	5.0	4.1	1.3	14.8	41	<0.1	0.6	0.2	34	0.91
B695081	RC Chip	3.25	1.6	6.4	32.8	29	0.1	4.8	8.2	460	2.47	6.9	3.8	1.5	14.8	47	0.1	0.8	0.2	40	0.84
B695080	RC Chip	2.84	5.6	50.8	3173.3	30	6.1	3.9	6.1	448	2.34	12.4	3.6	7.3	12.5	58	0.3	3.0	2.4	31	1.03
B695083	RC Chip	2.99	1.4	2.7	9.8	27	<0.1	4.9	7.9	571	2.47	5.1	2.4	<0.5	13.6	48	<0.1	0.6	<0.1	37	0.83
B695084	RC Chip	3.42	1.4	2.3	12.3	29	<0.1	4.9	7.2	673	2.55	5.9	1.9	1.5	13.9	58	<0.1	0.7	0.2	36	0.90
B695085	RC Chip	3.41	1.5	7.6	7.3	27	0.1	4.9	9.1	576	2.45	42.7	2.8	15.3	14.7	31	0.1	1.0	0.7	27	0.83
B695086	RC Chip	3.39	1.2	5.7	8.3	33	<0.1	4.6	8.1	674	2.57	8.0	2.0	1.2	14.8	51	0.2	1.1	0.2	32	0.96
B695087	RC Chip	3.22	1.3	10.2	8.4	34	0.1	4.5	7.5	657	2.38	6.0	2.5	2.3	15.7	62	0.1	1.0	0.4	28	0.82
B695088	RC Chip	2.59	1.7	7.9	10.1	33	0.1	3.8	7.2	439	2.23	15.6	2.6	3.9	15.4	48	<0.1	0.9	0.6	22	0.62
B695089	RC Chip	3.36	1.3	4.7	11.7	48	0.1	4.9	8.7	637	2.20	6.5	2.6	0.6	14.4	205	0.2	0.9	0.5	22	0.75
B695090	RC Chip	3.10	1.7	4.5	22.4	47	5.8	4.7	11.4	699	2.64	55.4	3.3	44.1	13.9	107	0.3	1.1	49.7	20	0.82
B695091	RC Chip	2.86	2.0	102.2	22.5	32	5.1	4.1	10.6	426	2.62	60.9	4.6	49.1	15.9	56	0.2	1.4	36.6	13	0.77
B695092	RC Chip	2.31	1.4	94.9	27.4	19	5.5	2.7	5.7	144	3.03	41.3	5.5	32.3	16.3	59	0.6	1.4	37.9	9	0.93
B695093	RC Chip	2.50	1.7	15.7	11.6	17	0.8	4.1	8.6	322	2.93	50.1	4.1	18.3	12.4	27	<0.1	1.0	5.0	12	1.11
B695094	RC Chip	3.12	1.3	50.5	8.1	32	0.3	4.4	6.4	403	2.77	9.4	2.4	10.2	13.8	45	<0.1	0.4	1.2	30	0.85
B695095	RC Chip	2.54	1.6	49.1	7.4	30	0.2	4.2	7.5	416	2.22	5.4	1.7	5.9	13.2	40	0.1	0.5	1.1	25	0.86
B695096	RC Chip	2.06	1.6	30.3	10.4	28	0.6	4.0	6.4	357	2.48	18.4	3.1	15.6	14.0	48	0.1	0.4	3.8	23	0.88
B695097	RC Chip	1.81	1.4	17.6	8.1	37	0.2	5.8	6.5	512	3.00	5.2	3.2	4.1	21.2	69	<0.1	0.7	1.3	42	0.92
B695098	RC Chip	1.89	1.4	11.5	9.6	45	0.2	6.6	11.9	747	3.71	15.7	5.1	3.8	21.1	84	0.2	0.6	1.4	52	1.53
B695099	RC Chip	2.39	1.6	85.3	9.4	37	0.4	6.0	11.9	518	2.82	7.5	4.1	4.6	19.7	53	0.2	0.5	3.7	37	0.98
B695100	RC Chip	2.17	1.5	109.9	14.1	60	0.7	9.3	17.0	770	4.89	12.1	2.5	16.8	35.5	47	0.3	0.9	7.9	74	1.30
B695101	RC Chip	2.15	1.2	43.0	8.7	48	0.2	8.5	14.2	730	4.10	10.4	3.4	5.3	39.0	45	<0.1	1.0	1.2	66	1.56
B695102	RC Chip	2.75	1.5	9.6	8.4	61	0.1	9.4	15.4	749	5.30	19.1	4.4	6.6	37.2	46	0.1	1.1	1.0	88	1.37
B695103	RC Chip	2.85	1.6	8.2	8.7	35	0.1	6.2	9.2	511	2.96	20.3	2.8	19.1	19.0	32	0.1	1.0	0.6	48	0.96
B695104	RC Chip	2.48	1.7	4.6	3.3	20	<0.1	4.1	5.9	362	1.97	13.1	3.6	4.4	19.8	26	<0.1	0.8	0.3	21	1.10
B695105	RC Chip	2.21	2.5	16.0	23.1	28	0.1	4.1	9.3	474	2.43	20.3	5.7	8.2	16.2	29	0.1	0.9	1.6	23	1.20
B695106	RC Chip	2.63	2.5	11.3	10.2	37	0.2	5.1	11.4	499	3.09	16.3	3.9	3.9	17.5	38	0.2	1.1	0.8	42	1.02
B695107	RC Chip	2.52	2.2	4.6	10.4	33	<0.1	5.3	8.4	377	2.68	10.1	3.1	1.8	15.6	49	0.1	0.9	0.3	43	0.81
B695108	RC Chip	2.56	2.1	5.9	11.1	39	<0.1	4.9	7.8	397	2.78	9.8	2.6	10.4	15.6	47	0.4	0.9	0.3	38	0.83
B695109	RC Chip	2.34	1.9	2.7	8.9	31	<0.1	4.6	5.5	404	2.24	5.0	2.9	6.3	15.9	32	0.2	0.7	0.2	31	1.02



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CERTIFICATE OF ANALYSIS

WHI20000518.1

Method Analyte Unit MDL	AQ200 P	AQ200 La	AQ200 Cr	AQ200 Mg	AQ200 Ba	AQ200 Ti	AQ200 B	AQ200 Al	AQ200 Na	AQ200 K	AQ200 W	AQ200 Hg	AQ200 Sc	AQ200 Ti	AQ200 S	AQ200 Ga	AQ200 Se	AQ200 Te	FA430 Au																				
																				%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
																				1	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005
																				0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005
B695082	RC Chip	0.069	16	11	0.46	66	0.036	<20	1.03	0.045	0.14	0.2	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2	0.006																			
B695081	RC Chip	0.068	14	13	0.52	52	0.072	<20	1.09	0.054	0.12	1.3	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2	<0.005																			
B695080	RC Chip	0.075	13	10	0.41	63	0.042	<20	1.15	0.049	0.18	1.0	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2	0.012																			
B695083	RC Chip	0.070	12	13	0.50	52	0.037	<20	1.08	0.051	0.12	0.2	<0.01	2.0	0.1	<0.05	4	<0.5	<0.2	<0.005																			
B695084	RC Chip	0.068	13	13	0.50	54	0.036	<20	1.08	0.047	0.12	0.3	<0.01	1.8	0.1	<0.05	5	<0.5	<0.2	<0.005																			
B695085	RC Chip	0.073	13	10	0.39	84	0.022	<20	1.12	0.048	0.20	0.3	<0.01	2.0	0.2	0.40	4	<0.5	<0.2	0.017																			
B695086	RC Chip	0.069	12	10	0.45	71	0.035	<20	1.27	0.069	0.18	0.2	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2	<0.005																			
B695087	RC Chip	0.073	17	10	0.40	86	0.017	<20	1.33	0.055	0.21	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2	<0.005																			
B695088	RC Chip	0.068	14	8	0.28	98	0.008	<20	1.15	0.042	0.25	0.2	<0.01	2.1	0.3	0.25	4	<0.5	<0.2	0.010																			
B695089	RC Chip	0.073	16	9	0.34	141	0.007	<20	1.11	0.037	0.19	<0.1	<0.01	1.6	0.2	0.08	4	<0.5	<0.2	0.006																			
B695090	RC Chip	0.070	14	9	0.47	129	0.007	<20	1.26	0.040	0.26	0.4	<0.01	1.8	0.3	0.73	4	<0.5	<0.2	0.051																			
B695091	RC Chip	0.069	14	6	0.31	81	0.004	<20	0.98	0.022	0.23	0.6	0.01	1.8	0.3	1.04	3	<0.5	<0.2	0.041																			
B695092	RC Chip	0.077	22	4	0.07	72	0.001	<20	1.01	0.033	0.25	0.5	<0.01	1.4	0.3	1.49	2	<0.5	<0.2	0.044																			
B695093	RC Chip	0.071	15	7	0.17	67	0.002	<20	0.65	0.015	0.24	0.9	<0.01	1.4	0.3	2.18	2	<0.5	0.3	0.080																			
B695094	RC Chip	0.068	15	10	0.40	55	0.005	<20	1.41	0.031	0.17	0.2	<0.01	2.8	0.2	0.23	5	<0.5	<0.2	0.020																			
B695095	RC Chip	0.075	18	10	0.36	50	0.002	<20	1.16	0.031	0.17	0.1	<0.01	2.4	0.2	0.11	4	<0.5	<0.2	0.021																			
B695096	RC Chip	0.073	19	8	0.29	77	0.002	<20	1.33	0.031	0.25	0.1	<0.01	2.4	0.3	0.66	4	<0.5	<0.2	0.014																			
B695097	RC Chip	0.092	28	12	0.55	67	0.011	<20	1.52	0.034	0.20	<0.1	<0.01	4.0	0.3	0.06	6	<0.5	<0.2	0.008																			
B695098	RC Chip	0.097	30	15	0.82	76	0.013	<20	2.01	0.036	0.20	<0.1	<0.01	5.2	0.3	0.25	7	<0.5	<0.2	0.010																			
B695099	RC Chip	0.086	25	12	0.49	58	0.004	<20	1.52	0.035	0.19	<0.1	<0.01	4.2	0.3	0.27	6	<0.5	<0.2	0.024																			
B695100	RC Chip	0.142	54	18	1.01	55	0.018	<20	2.26	0.030	0.23	<0.1	<0.01	7.5	0.4	0.37	10	<0.5	<0.2	0.016																			
B695101	RC Chip	0.138	62	16	0.76	52	0.016	<20	1.93	0.029	0.23	0.2	<0.01	7.2	0.4	0.44	8	<0.5	<0.2	0.012																			
B695102	RC Chip	0.153	56	22	1.23	55	0.139	<20	2.12	0.048	0.22	0.8	<0.01	7.2	0.3	0.60	10	<0.5	0.2	0.014																			
B695103	RC Chip	0.099	18	15	0.68	60	0.075	<20	1.34	0.046	0.17	0.8	<0.01	3.6	0.2	0.35	6	<0.5	<0.2	0.018																			
B695104	RC Chip	0.067	13	11	0.37	73	0.010	<20	0.93	0.036	0.25	0.6	<0.01	1.7	0.3	0.16	4	<0.5	<0.2	0.012																			
B695105	RC Chip	0.069	15	12	0.43	91	0.017	<20	1.13	0.036	0.33	0.7	<0.01	2.0	0.5	0.31	4	<0.5	<0.2	0.011																			
B695106	RC Chip	0.077	16	16	0.73	57	0.080	<20	1.38	0.053	0.18	1.1	<0.01	2.8	0.2	0.23	5	<0.5	<0.2	0.008																			
B695107	RC Chip	0.069	16	17	0.56	58	0.105	<20	1.20	0.059	0.13	1.9	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2	0.032																			
B695108	RC Chip	0.066	13	15	0.60	61	0.090	<20	1.30	0.064	0.16	1.8	<0.01	2.4	0.2	0.16	6	<0.5	<0.2	0.017																			
B695109	RC Chip	0.070	15	15	0.50	52	0.036	<20	1.11	0.054	0.13	0.5	<0.01	2.4	0.2	0.05	5	<0.5	<0.2	0.011																			



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Project: Rude Creek
Report Date: February 08, 2021

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CERTIFICATE OF ANALYSIS

WHI20000518.1

Method Analyte	Unit MDL	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt kg	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
B695110	RC Chip	2.38	1.8	4.3	7.7	23	<0.1	4.1	5.3	366	2.15	5.1	3.4	2.1	16.1	38	0.1	0.8	0.1	32	1.19
B695111	RC Chip	1.80	3.4	2.8	13.0	34	<0.1	5.3	7.2	449	2.61	5.8	2.7	1.2	16.5	36	0.2	0.7	0.2	39	1.11
B695112	RC Chip	2.62	2.1	4.2	8.7	28	<0.1	5.1	7.9	449	2.61	7.9	3.6	1.2	17.8	43	0.2	1.2	0.1	43	0.91
B695113	RC Chip	2.76	2.6	7.4	8.6	30	<0.1	5.2	7.7	413	2.97	8.8	5.1	0.7	15.4	41	0.1	1.2	0.2	52	0.76
B695114	RC Chip	2.39	2.3	13.3	11.0	40	0.2	5.1	9.8	374	2.58	10.9	2.9	1.3	17.0	58	0.3	1.0	0.7	46	0.83
B695115	RC Chip	2.25	2.7	10.9	9.3	38	0.2	5.6	10.9	433	3.35	10.5	3.9	4.0	21.8	42	0.2	0.9	1.5	57	0.90
B695116	RC Chip	2.13	2.3	10.0	9.8	30	<0.1	4.9	6.3	396	2.57	7.2	2.5	3.0	16.6	48	0.2	1.2	0.4	41	0.88
B695117	RC Chip	2.00	2.2	4.5	9.3	29	<0.1	4.8	7.0	370	2.43	5.6	2.6	2.0	16.0	42	0.2	0.9	0.2	36	0.88
B695118	RC Chip	2.46	2.6	5.0	6.0	26	<0.1	4.6	6.7	488	2.31	7.8	2.9	<0.5	16.4	34	<0.1	1.5	0.2	29	0.73
B695119	RC Chip	1.78	2.5	4.8	9.3	28	<0.1	4.3	6.1	421	2.22	8.1	2.6	<0.5	17.3	48	0.2	1.4	0.1	30	0.77
B695120	RC Chip	2.35	2.7	7.5	12.5	28	0.1	4.3	6.5	439	2.18	13.0	2.8	31.8	16.0	29	0.2	1.1	0.3	30	0.84
B695121	RC Chip	2.91	12.1	52.5	19.7	45	0.7	6.5	22.6	618	4.63	60.5	3.4	33.9	15.1	36	0.4	1.6	1.1	46	0.95
B695122	RC Chip	2.13	4.0	23.2	10.2	33	0.2	4.5	5.7	531	2.70	13.5	2.4	6.6	14.1	44	0.3	1.3	0.5	35	0.92
B695123	RC Chip	1.86	3.0	44.2	7.7	49	1.4	8.4	23.9	610	5.13	60.9	3.4	58.5	14.5	34	0.4	1.3	0.9	49	0.95
B695124	RC Chip	1.81	2.3	27.4	4.6	36	0.2	6.2	12.0	568	3.28	23.2	2.2	9.4	12.0	35	0.2	1.1	0.5	35	1.04
B695125	RC Chip	1.83	2.0	11.2	9.0	31	0.2	4.9	6.5	475	2.19	15.6	2.2	3.5	13.8	37	0.2	1.5	0.5	31	0.74
B695126	RC Chip	2.14	2.6	5.1	10.6	31	<0.1	4.6	7.2	475	2.40	11.7	1.9	5.3	12.7	40	0.1	1.7	0.3	33	0.72
B695127	RC Chip	2.25	2.5	5.5	14.2	37	0.1	4.8	7.7	523	2.39	10.9	2.0	4.2	13.5	72	0.3	1.6	0.4	38	0.84
B695128	RC Chip	2.02	2.4	7.3	9.0	34	0.1	4.8	8.3	609	2.57	8.9	1.3	<0.5	11.0	34	<0.1	1.3	0.2	32	0.92
B695129	RC Chip	2.10	2.2	6.4	6.7	29	<0.1	4.7	7.3	606	2.41	8.7	1.6	<0.5	11.7	40	<0.1	1.5	0.1	28	0.89
B695130	RC Chip	2.00	2.4	4.1	6.0	27	<0.1	4.1	5.9	513	1.96	9.8	2.6	2.7	18.9	48	<0.1	1.2	0.1	20	0.93
B695131	RC Chip	1.88	3.2	5.4	11.2	35	0.1	4.7	8.9	608	2.63	17.6	1.9	2.8	12.9	35	0.2	1.3	0.2	34	0.94
B695132	RC Chip	1.95	2.7	3.6	12.4	30	<0.1	5.0	8.3	485	2.52	11.4	1.6	0.8	12.5	60	<0.1	1.4	0.1	36	0.81
B695133	RC Chip	2.19	2.5	2.6	10.7	32	<0.1	5.0	7.9	512	2.74	9.2	2.1	<0.5	13.6	61	0.1	1.4	0.1	49	0.94
B695134	RC Chip	2.22	3.9	4.5	12.3	31	<0.1	5.4	7.1	428	2.75	9.1	2.5	<0.5	21.6	65	0.2	1.4	0.1	43	0.90
B695135	RC Chip	2.05	2.8	2.8	14.6	38	<0.1	5.4	8.4	407	2.55	12.0	2.0	0.9	16.2	59	0.2	1.4	0.2	39	0.91
B695136	RC Chip	2.49	2.6	18.0	12.6	32	0.1	5.2	11.7	375	2.90	20.4	2.3	8.5	14.0	48	0.2	1.0	2.2	42	0.97
B695137	RC Chip	1.85	2.8	14.5	9.1	29	<0.1	4.9	8.9	289	2.73	10.2	3.2	7.6	13.1	70	0.1	0.8	1.1	46	0.84
B695138	RC Chip	2.73	2.9	11.9	85.3	29	0.5	4.8	11.2	324	2.57	87.1	2.9	8.1	15.0	45	0.3	1.0	2.0	34	1.37
B695139	RC Chip	2.32	2.8	11.2	11.4	30	<0.1	4.9	4.0	309	2.64	7.8	3.2	1.0	14.1	44	0.1	0.9	0.4	44	0.85



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CERTIFICATE OF ANALYSIS

WHI20000518.1

Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B695110	RC Chip	0.071	18	13	0.41	62	0.017	<20	1.12	0.046	0.16	<0.1	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2	<0.005
B695111	RC Chip	0.077	15	18	0.58	49	0.039	<20	1.22	0.044	0.12	0.5	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2	<0.005
B695112	RC Chip	0.072	19	16	0.59	80	0.096	<20	1.31	0.062	0.18	0.8	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2	<0.005
B695113	RC Chip	0.075	21	22	0.63	100	0.125	<20	1.18	0.072	0.18	1.8	<0.01	3.6	0.2	<0.05	6	<0.5	<0.2	0.006
B695114	RC Chip	0.070	13	19	0.61	68	0.113	<20	1.22	0.070	0.16	2.1	<0.01	3.0	0.2	0.17	6	<0.5	0.2	0.007
B695115	RC Chip	0.080	24	22	0.77	155	0.129	<20	1.28	0.069	0.23	2.1	<0.01	4.4	0.3	0.42	6	<0.5	0.6	0.006
B695116	RC Chip	0.073	15	19	0.55	74	0.078	<20	1.13	0.065	0.18	1.0	<0.01	3.1	0.2	0.11	5	<0.5	<0.2	<0.005
B695117	RC Chip	0.071	15	17	0.49	61	0.027	<20	1.24	0.058	0.16	0.2	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2	<0.005
B695118	RC Chip	0.071	13	18	0.47	78	0.062	<20	1.13	0.055	0.19	0.7	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2	<0.005
B695119	RC Chip	0.068	14	18	0.44	93	0.071	<20	1.07	0.063	0.17	1.0	<0.01	2.2	0.2	<0.05	5	<0.5	<0.2	<0.005
B695120	RC Chip	0.069	13	18	0.45	78	0.056	<20	0.99	0.049	0.14	0.8	<0.01	2.4	0.1	0.16	5	<0.5	<0.2	0.008
B695121	RC Chip	0.070	14	14	0.80	81	0.041	<20	1.59	0.055	0.19	1.2	<0.01	3.5	0.3	0.83	7	<0.5	<0.2	0.049
B695122	RC Chip	0.072	13	17	0.54	70	0.048	<20	1.23	0.048	0.16	0.6	<0.01	2.6	0.2	0.13	5	<0.5	<0.2	0.012
B695123	RC Chip	0.069	17	16	0.79	61	0.014	<20	1.86	0.049	0.19	0.5	<0.01	4.4	0.2	0.62	8	<0.5	<0.2	0.101
B695124	RC Chip	0.069	15	15	0.65	49	0.016	<20	1.43	0.045	0.18	0.4	<0.01	3.3	0.2	0.22	6	<0.5	<0.2	0.021
B695125	RC Chip	0.076	15	21	0.39	91	0.068	<20	1.08	0.060	0.23	1.2	<0.01	2.4	0.2	0.07	5	<0.5	<0.2	0.012
B695126	RC Chip	0.072	14	20	0.39	68	0.085	<20	1.01	0.051	0.16	2.2	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2	0.009
B695127	RC Chip	0.074	16	20	0.46	75	0.088	<20	1.14	0.058	0.15	1.6	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2	0.008
B695128	RC Chip	0.068	13	18	0.53	53	0.049	<20	1.13	0.044	0.14	0.7	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2	<0.005
B695129	RC Chip	0.063	12	18	0.46	78	0.035	<20	1.16	0.050	0.20	0.4	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2	<0.005
B695130	RC Chip	0.060	14	15	0.39	72	0.011	<20	1.05	0.041	0.16	0.2	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2	0.008
B695131	RC Chip	0.078	15	17	0.55	71	0.059	<20	1.29	0.051	0.17	0.7	<0.01	2.7	0.1	0.13	5	<0.5	<0.2	0.007
B695132	RC Chip	0.074	15	18	0.48	82	0.088	<20	1.17	0.058	0.18	1.9	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2	0.006
B695133	RC Chip	0.093	15	19	0.58	65	0.104	<20	1.32	0.065	0.17	1.5	<0.01	3.6	0.2	<0.05	6	<0.5	<0.2	<0.005
B695134	RC Chip	0.080	18	25	0.51	59	0.106	<20	1.21	0.059	0.13	2.4	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2	<0.005
B695135	RC Chip	0.076	16	20	0.54	89	0.101	<20	1.30	0.060	0.16	2.1	<0.01	2.8	0.2	0.10	6	<0.5	<0.2	<0.005
B695136	RC Chip	0.078	15	20	0.55	78	0.084	<20	1.16	0.051	0.14	2.5	<0.01	2.9	0.2	0.45	6	<0.5	<0.2	0.014
B695137	RC Chip	0.070	15	22	0.55	54	0.103	<20	1.22	0.067	0.12	3.9	<0.01	3.2	0.1	0.35	6	<0.5	<0.2	0.021
B695138	RC Chip	0.077	20	19	0.46	84	0.033	<20	1.07	0.044	0.18	2.8	<0.01	3.0	0.2	0.54	5	<0.5	0.4	0.026
B695139	RC Chip	0.074	17	22	0.53	86	0.096	<20	1.14	0.069	0.17	2.0	<0.01	3.3	0.2	0.08	5	<0.5	<0.2	0.014



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B695140	RC Chip	3.30	2.8	16.0	4.2	35	<0.1	5.0	8.3	440	3.24	5.0	5.0	<0.5	14.2	33	<0.1	0.6	0.1	58	0.52
B695141	RC Chip	2.32	2.8	19.0	4.1	38	<0.1	5.7	8.4	515	3.35	5.5	4.5	<0.5	13.4	39	<0.1	0.6	0.2	62	0.65
B695142	RC Chip	1.81	2.7	33.2	4.7	33	0.1	5.2	11.1	325	3.32	7.0	6.7	46.4	18.8	70	<0.1	0.5	1.3	59	0.60
B695143	RC Chip	1.78	3.6	15.1	7.2	26	<0.1	5.1	4.7	271	2.80	6.7	2.9	4.5	14.0	60	<0.1	0.9	0.6	48	0.85
B695144	RC Chip	1.98	3.0	8.9	7.7	27	<0.1	5.0	6.0	329	2.48	5.9	3.1	2.5	13.0	41	0.1	0.9	1.3	38	0.93
B695145	RC Chip	2.56	2.4	17.8	6.6	24	0.1	4.5	8.8	323	2.45	46.7	3.6	90.5	13.1	49	<0.1	0.7	5.8	28	1.55
B695146	RC Chip	2.18	2.8	23.6	11.4	26	0.2	4.4	5.3	306	2.47	12.3	2.7	134.5	12.6	38	0.2	0.6	11.5	28	1.24
B695147	RC Chip	1.99	2.7	20.5	8.3	23	0.1	4.5	6.4	290	2.43	14.6	3.1	30.1	15.9	33	0.1	0.7	9.6	25	1.11
B695148	RC Chip	2.00	3.2	29.4	7.8	23	0.1	4.2	6.8	305	2.50	24.1	4.2	20.5	29.4	36	0.1	0.7	12.6	28	1.21
B695149	RC Chip	2.05	3.2	13.7	7.3	24	<0.1	4.5	6.5	290	2.69	11.2	4.6	10.4	25.7	40	<0.1	0.8	2.6	41	0.98
B695150	RC Chip	1.79	2.9	44.9	13.0	22	0.3	4.3	8.0	286	2.57	63.3	5.0	41.2	20.3	43	0.2	1.3	19.6	29	1.36
B695151	RC Chip	2.33	2.1	63.0	21.7	26	0.6	4.3	10.5	260	2.75	100.0	5.7	21.7	18.2	34	0.4	1.5	44.4	16	1.75
B695152	RC Chip	2.48	2.1	44.8	10.9	28	0.2	4.2	7.7	328	2.80	28.0	5.6	26.1	17.8	40	0.1	1.3	8.8	32	1.38
B695153	RC Chip	2.03	2.7	53.7	11.4	24	0.3	4.5	7.4	315	2.71	20.7	4.5	53.0	17.3	48	0.1	1.4	18.9	31	1.48
B695154	RC Chip	2.35	3.0	90.3	7.3	26	0.4	5.0	13.1	318	2.86	31.4	3.1	56.7	16.2	41	0.1	1.0	6.9	28	1.20
B695155	RC Chip	2.64	2.8	19.2	7.4	25	0.1	4.6	7.4	315	2.70	7.3	3.4	1.3	16.0	41	0.1	0.8	3.6	33	1.03
B695156	RC Chip	3.54	1.9	23.1	8.1	24	0.4	4.1	9.8	338	2.59	12.3	4.0	30.2	16.1	56	<0.1	0.3	7.5	31	1.75
B695157	RC Chip	3.28	2.3	21.2	6.9	26	0.1	4.6	10.0	334	2.68	18.8	2.6	7.5	15.4	42	0.1	0.5	1.7	31	1.40
B695158	RC Chip	3.45	1.7	28.7	7.7	26	0.1	4.1	7.7	322	2.63	28.2	2.9	29.3	16.2	47	0.2	0.6	3.2	30	1.13
B695159	RC Chip	3.52	3.8	17.0	6.0	30	<0.1	4.4	6.7	357	2.75	12.2	2.7	6.9	16.7	36	0.1	0.8	1.9	32	1.06
B695160	RC Chip	3.50	2.3	8.0	4.1	24	<0.1	4.5	6.1	325	2.37	5.8	2.7	<0.5	15.9	48	0.1	0.6	0.6	26	1.16
B695161	RC Chip	3.22	2.3	14.5	8.4	26	0.1	4.4	6.0	324	2.54	15.9	2.3	16.8	16.2	37	0.2	0.6	3.3	29	1.20
B695162	RC Chip	1.54	1.9	15.4	8.2	24	0.1	4.3	4.5	282	2.22	13.3	1.7	78.6	13.9	33	0.3	0.4	2.6	26	1.11
B695163	RC Chip	3.43	1.7	34.0	7.0	17	0.2	3.7	10.6	238	2.22	37.2	2.2	108.2	15.8	25	0.1	0.3	3.8	17	1.26
B695164	RC Chip	3.02	1.8	47.6	17.2	30	0.4	4.6	7.8	319	2.81	99.6	3.4	50.3	23.2	30	0.7	0.4	7.5	37	1.33
B695336	Rock DUP		1.8	45.5	16.9	28	0.4	4.2	7.3	315	2.80	96.7	3.3	26.4	21.6	28	0.6	0.4	7.5	36	1.29
B695165	RC Chip	2.99	1.5	55.6	15.8	47	0.5	7.9	12.7	587	4.76	45.2	4.9	91.5	34.5	44	0.4	0.3	7.6	82	2.69
B695166	RC Chip	2.49	1.3	18.7	15.4	25	0.4	4.3	9.3	447	2.44	22.4	5.3	48.8	24.4	47	0.5	0.3	7.8	28	3.28
B695167	RC Chip	3.63	2.0	24.9	11.2	29	0.3	4.8	4.7	372	2.73	12.3	3.4	14.1	27.5	38	0.4	0.4	5.9	34	1.63
B695168	RC Chip	3.59	2.2	14.8	10.3	27	0.1	4.3	5.2	342	2.53	8.8	2.5	10.7	16.4	33	0.2	0.7	3.2	35	1.11



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Project: Rude Creek
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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B695140	RC Chip	0.067	28	23	0.70	386	0.194	<20	1.21	0.106	0.57	1.9	<0.01	4.6	0.6	<0.05	5	<0.5	<0.2	<0.005
B695141	RC Chip	0.076	26	24	0.81	413	0.209	<20	1.39	0.127	0.60	1.7	<0.01	4.9	0.7	<0.05	6	<0.5	<0.2	<0.005
B695142	RC Chip	0.068	25	22	0.76	369	0.195	<20	1.33	0.108	0.53	18.4	<0.01	5.0	0.6	0.21	6	<0.5	0.4	0.061
B695143	RC Chip	0.070	18	24	0.57	82	0.121	<20	1.20	0.067	0.15	3.2	<0.01	3.2	0.2	0.08	6	<0.5	<0.2	0.007
B695144	RC Chip	0.072	15	20	0.52	83	0.066	<20	1.16	0.053	0.16	1.4	<0.01	3.0	0.2	0.12	6	<0.5	<0.2	0.011
B695145	RC Chip	0.069	20	15	0.40	100	0.007	<20	1.06	0.042	0.22	0.8	<0.01	2.5	0.3	0.49	5	<0.5	1.0	0.142
B695146	RC Chip	0.067	19	17	0.43	94	0.006	<20	1.03	0.042	0.18	1.0	<0.01	2.6	0.2	0.51	5	<0.5	2.6	0.236
B695147	RC Chip	0.072	19	18	0.40	102	0.008	<20	1.05	0.046	0.21	0.9	<0.01	2.3	0.2	0.51	4	<0.5	1.3	0.083
B695148	RC Chip	0.065	17	20	0.42	91	0.018	<20	1.08	0.048	0.20	1.7	<0.01	2.6	0.2	0.48	4	<0.5	1.9	0.033
B695149	RC Chip	0.075	18	21	0.53	86	0.074	<20	1.25	0.060	0.16	1.8	<0.01	3.2	0.2	0.23	5	<0.5	0.3	0.014
B695150	RC Chip	0.075	19	17	0.35	100	0.019	<20	1.04	0.044	0.25	3.0	<0.01	2.6	0.3	0.74	4	<0.5	3.7	0.038
B695151	RC Chip	0.066	16	12	0.29	86	0.005	<20	0.98	0.023	0.22	2.1	<0.01	1.9	0.3	1.26	3	0.6	11.0	0.037
B695152	RC Chip	0.071	19	15	0.47	101	0.008	<20	1.25	0.040	0.19	0.6	<0.01	3.1	0.4	0.59	5	<0.5	0.5	0.035
B695153	RC Chip	0.069	20	17	0.45	95	0.011	<20	1.10	0.042	0.20	1.8	<0.01	2.8	0.3	0.64	5	<0.5	0.8	0.037
B695154	RC Chip	0.065	17	18	0.51	90	0.016	<20	1.18	0.040	0.19	1.4	<0.01	2.7	0.2	0.61	5	<0.5	1.3	0.058
B695155	RC Chip	0.071	16	20	0.47	64	0.031	<20	1.03	0.040	0.13	1.4	<0.01	2.7	0.2	0.14	5	<0.5	0.2	0.008
B695156	RC Chip	0.076	20	15	0.43	96	0.010	<20	1.20	0.041	0.20	0.9	<0.01	2.8	0.2	0.55	5	<0.5	1.4	0.027
B695157	RC Chip	0.065	17	17	0.45	82	0.019	<20	1.20	0.039	0.17	0.7	<0.01	2.8	0.2	0.35	5	<0.5	<0.2	0.015
B695158	RC Chip	0.065	17	14	0.48	99	0.013	<20	1.24	0.049	0.18	0.3	<0.01	3.0	0.2	0.43	5	<0.5	0.4	0.020
B695159	RC Chip	0.070	16	16	0.59	81	0.017	<20	1.37	0.050	0.15	0.3	<0.01	2.9	0.2	0.29	6	<0.5	0.3	0.014
B695160	RC Chip	0.071	16	17	0.48	113	0.011	<20	1.31	0.055	0.18	0.9	<0.01	2.6	0.2	0.08	5	<0.5	<0.2	0.007
B695161	RC Chip	0.070	16	16	0.45	80	0.013	<20	1.18	0.050	0.15	0.4	<0.01	2.6	0.2	0.39	5	<0.5	0.3	0.018
B695162	RC Chip	0.067	16	14	0.40	90	0.005	<20	1.11	0.039	0.16	0.2	<0.01	2.3	0.2	0.29	5	<0.5	0.3	0.026
B695163	RC Chip	0.065	23	11	0.34	81	0.002	<20	0.97	0.027	0.17	0.4	<0.01	1.8	0.2	0.73	4	<0.5	0.4	0.034
B695164	RC Chip	0.074	27	12	0.53	61	0.002	<20	1.41	0.028	0.16	0.3	<0.01	3.5	0.2	0.51	6	<0.5	0.7	0.073
B695336	Rock DUP	0.073	26	12	0.52	61	0.003	<20	1.40	0.029	0.16	0.2	<0.01	3.9	0.2	0.50	6	<0.5	0.7	0.085
B695165	RC Chip	0.120	50	18	0.96	40	0.004	<20	2.16	0.017	0.12	<0.1	<0.01	8.9	0.2	1.07	11	<0.5	0.4	0.106
B695166	RC Chip	0.075	39	10	0.32	44	0.001	<20	1.22	0.014	0.13	0.1	<0.01	4.9	0.2	0.74	5	0.6	1.4	0.066
B695167	RC Chip	0.072	27	15	0.53	71	0.010	<20	1.31	0.042	0.16	0.5	<0.01	3.8	0.2	0.42	6	<0.5	0.9	0.031
B695168	RC Chip	0.063	13	16	0.53	62	0.050	<20	1.25	0.049	0.13	1.8	<0.01	2.7	0.2	0.27	6	<0.5	<0.2	0.035



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CERTIFICATE OF ANALYSIS

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Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B695169	RC Chip	3.17	2.4	16.5	14.8	25	0.3	4.0	6.4	304	2.32	12.8	4.3	45.2	15.2	26	0.3	0.5	5.1	29	0.97
B695170	RC Chip	3.44	2.8	29.5	13.2	33	0.2	5.3	6.3	367	3.31	57.5	3.1	18.2	16.9	37	0.2	0.4	2.9	55	0.87
B695171	RC Chip	1.83	2.3	15.9	9.3	30	0.2	5.0	5.4	348	2.96	17.6	3.1	8.4	21.4	32	0.1	0.5	3.7	48	1.05
B695172	RC Chip	2.69	3.0	22.6	10.6	27	0.2	4.2	4.1	299	2.57	23.6	4.9	11.9	17.6	32	0.2	0.5	5.6	35	0.91
B695173	RC Chip	2.99	2.2	22.5	13.8	36	0.2	4.2	4.6	317	2.65	89.1	4.2	25.7	16.5	24	0.6	0.5	4.0	39	0.99
B695174	RC Chip	2.99	2.8	28.1	36.1	33	0.5	4.2	4.3	304	2.40	42.2	6.3	39.4	16.2	21	0.6	0.4	6.3	30	1.00
B695176	RC Chip	2.62	2.5	41.5	34.9	44	0.7	8.0	8.9	442	2.47	19.6	3.3	10.5	12.8	59	1.0	1.2	4.5	33	0.52
B695177	RC Chip	3.25	2.9	23.0	25.3	39	0.7	10.6	15.9	425	2.66	51.4	5.1	66.9	15.6	56	0.5	1.2	7.2	39	0.92
B695337	Rock DUP		2.8	22.8	23.3	37	0.7	9.0	15.7	422	2.63	48.6	4.5	25.8	13.6	51	0.5	1.2	12.5	38	0.91
B695178	RC Chip	6.04	1.7	12.1	15.8	32	0.3	5.9	8.0	374	2.50	15.8	3.6	3.8	15.2	58	0.3	1.1	1.4	41	0.94
B695179	RC Chip	2.96	1.4	10.6	11.3	29	0.2	4.9	7.5	368	2.44	15.0	3.3	6.0	15.5	77	0.2	1.1	0.8	42	0.89
B695180	RC Chip	3.08	0.9	24.6	9.2	27	0.3	4.5	6.7	351	2.33	9.1	3.2	28.1	14.5	58	0.1	0.9	1.3	36	0.83
B695181	RC Chip	2.94	1.1	10.1	8.2	26	0.1	4.0	6.0	358	2.28	7.4	3.8	24.2	15.3	45	0.2	0.9	0.4	36	0.82
B695182	RC Chip	3.72	2.2	12.2	11.2	26	0.4	4.5	9.3	320	2.55	13.3	3.9	13.3	13.9	44	0.2	0.8	2.3	29	0.90
B695183	RC Chip	3.63	1.4	6.7	8.2	26	0.1	4.8	6.8	482	2.21	9.1	2.3	1.0	13.5	37	<0.1	1.1	0.4	29	0.82
B695184	RC Chip	3.53	1.5	6.0	8.5	29	<0.1	4.4	6.8	598	2.46	7.0	2.8	0.7	13.1	76	0.1	1.1	0.2	34	0.97
B695185	RC Chip	3.01	1.4	9.6	9.3	31	0.2	4.7	7.0	574	2.48	8.3	2.2	3.1	11.9	41	0.2	1.0	0.5	36	0.99
B695186	RC Chip	2.22	1.5	7.7	9.8	30	0.3	4.5	7.1	520	2.37	9.1	1.9	<0.5	12.1	47	0.2	1.0	0.7	34	0.93
B695187	RC Chip	4.04	1.4	7.5	7.7	33	0.1	3.9	6.1	513	2.39	8.2	2.1	<0.5	11.8	47	0.3	0.9	0.3	33	1.08
B695188	RC Chip	3.83	1.5	5.8	7.7	33	0.1	5.3	10.5	525	3.14	24.1	4.3	4.6	15.3	72	0.2	1.2	0.5	41	1.04
B695189	RC Chip	3.67	1.1	9.1	6.2	30	0.2	6.1	13.7	466	2.95	62.4	9.5	25.2	22.0	75	0.2	1.2	1.0	32	0.81
B695190	RC Chip	3.55	1.5	15.8	14.3	29	0.3	4.0	5.1	437	1.80	9.8	3.0	8.6	15.0	33	0.6	0.7	2.6	23	1.05
B695191	RC Chip	3.24	1.5	6.7	48.0	143	0.6	4.1	6.8	375	2.23	41.0	5.8	46.8	16.1	40	4.2	0.9	0.8	26	0.90
B695192	RC Chip	3.34	1.7	9.8	7.0	37	<0.1	5.2	6.2	523	2.44	7.4	3.7	<0.5	16.0	41	0.4	1.0	0.2	38	0.89
B695193	RC Chip	3.67	1.5	3.4	7.0	27	<0.1	4.3	6.5	635	2.38	7.8	3.1	<0.5	15.6	68	0.2	0.7	0.1	33	1.06
B695194	RC Chip	3.40	1.7	10.4	8.7	30	0.1	4.1	7.4	565	2.49	10.6	3.2	0.9	15.0	146	0.1	0.6	0.3	40	1.05
B695195	RC Chip	4.39	1.8	20.5	7.4	28	0.2	4.7	14.4	395	2.61	22.7	4.7	152.2	15.9	145	<0.1	0.4	2.1	32	1.68
B695196	RC Chip	3.44	1.3	22.8	20.9	26	0.5	3.9	6.6	432	2.38	7.1	5.0	187.0	14.9	151	0.1	0.6	2.1	30	1.43
B695197	RC Chip	4.29	1.3	14.7	10.0	24	0.3	2.9	6.1	361	2.01	7.0	2.3	11.0	8.3	76	<0.1	0.8	1.3	13	1.13
B695198	RC Chip	3.78	1.6	13.8	4.4	25	0.1	2.8	4.4	407	2.23	6.0	2.7	56.1	10.5	93	0.1	0.9	1.1	22	1.14



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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
B695169	RC Chip	0.053	12	16	0.44	66	0.035	<20	1.07	0.047	0.15	2.0	<0.01	2.5	0.2	0.35	5	<0.5	<0.2	0.055
B695170	RC Chip	0.076	14	20	0.79	79	0.075	<20	1.49	0.049	0.12	2.5	<0.01	4.0	0.1	0.39	8	<0.5	<0.2	0.020
B695171	RC Chip	0.071	19	18	0.65	67	0.070	<20	1.40	0.047	0.13	2.3	<0.01	3.8	0.2	0.31	7	<0.5	<0.2	0.025
B695172	RC Chip	0.057	15	17	0.52	56	0.051	<20	1.08	0.042	0.13	3.3	<0.01	2.8	0.2	0.35	6	<0.5	0.5	0.024
B695173	RC Chip	0.061	15	16	0.58	58	0.058	<20	1.23	0.045	0.15	2.4	<0.01	3.4	0.2	0.36	6	<0.5	0.3	0.061
B695174	RC Chip	0.055	13	17	0.52	54	0.033	<20	1.07	0.033	0.15	3.0	<0.01	2.6	0.2	0.26	5	<0.5	0.2	0.046
B695176	RC Chip	0.071	15	12	0.41	123	0.034	<20	1.33	0.038	0.20	0.7	<0.01	2.5	0.2	0.06	5	<0.5	<0.2	0.031
B695177	RC Chip	0.081	17	15	0.52	86	0.031	<20	1.24	0.040	0.19	0.7	<0.01	3.2	0.3	0.41	5	<0.5	0.4	0.041
B695337	Rock DUP	0.074	16	15	0.51	83	0.033	<20	1.24	0.038	0.19	0.7	<0.01	3.1	0.2	0.41	5	<0.5	0.4	0.028
B695178	RC Chip	0.075	16	12	0.47	73	0.066	<20	1.22	0.053	0.15	1.4	<0.01	2.9	0.2	0.11	5	<0.5	<0.2	0.078
B695179	RC Chip	0.083	13	10	0.47	72	0.079	<20	1.24	0.057	0.15	2.0	<0.01	2.8	0.2	0.14	6	<0.5	<0.2	0.006
B695180	RC Chip	0.070	12	10	0.49	54	0.071	<20	1.13	0.047	0.11	1.7	<0.01	2.4	0.1	0.09	5	<0.5	<0.2	0.014
B695181	RC Chip	0.069	13	11	0.46	48	0.059	<20	1.05	0.046	0.10	1.5	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2	0.015
B695182	RC Chip	0.062	13	11	0.37	77	0.040	<20	1.03	0.058	0.17	4.0	<0.01	2.3	0.2	0.68	4	<0.5	0.3	0.014
B695183	RC Chip	0.066	13	11	0.42	70	0.065	<20	1.13	0.055	0.16	1.1	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2	0.005
B695184	RC Chip	0.065	15	13	0.47	91	0.061	<20	1.22	0.059	0.17	1.5	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2	<0.005
B695185	RC Chip	0.076	13	12	0.50	72	0.070	<20	1.27	0.052	0.16	1.3	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2	0.008
B695186	RC Chip	0.070	12	12	0.48	79	0.067	<20	1.24	0.056	0.17	1.4	<0.01	2.2	0.2	0.07	5	<0.5	<0.2	0.008
B695187	RC Chip	0.069	15	12	0.49	80	0.061	<20	1.28	0.056	0.18	1.2	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2	0.011
B695188	RC Chip	0.072	16	12	0.63	102	0.071	<20	1.55	0.055	0.24	1.4	<0.01	2.9	0.3	0.19	6	<0.5	<0.2	0.008
B695189	RC Chip	0.079	16	10	0.59	108	0.056	<20	1.36	0.049	0.25	1.3	<0.01	2.6	0.2	0.67	5	<0.5	<0.2	0.025
B695190	RC Chip	0.066	15	11	0.38	71	0.020	<20	0.97	0.043	0.19	0.6	<0.01	1.9	0.2	0.16	4	<0.5	<0.2	0.012
B695191	RC Chip	0.065	17	11	0.35	78	0.016	<20	1.08	0.046	0.23	0.5	0.01	2.1	0.3	0.38	4	<0.5	<0.2	0.043
B695192	RC Chip	0.071	20	14	0.52	92	0.053	<20	1.14	0.064	0.20	0.3	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2	<0.005
B695193	RC Chip	0.070	16	13	0.50	66	0.024	<20	1.34	0.054	0.15	0.2	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2	<0.005
B695194	RC Chip	0.067	16	14	0.55	99	0.052	<20	1.46	0.066	0.19	0.4	<0.01	2.9	0.2	<0.05	5	<0.5	<0.2	<0.005
B695195	RC Chip	0.064	20	11	0.46	96	0.008	<20	1.15	0.046	0.19	0.5	<0.01	3.2	0.2	0.98	5	<0.5	0.8	0.058
B695196	RC Chip	0.062	18	10	0.45	103	0.016	<20	1.21	0.048	0.23	0.5	<0.01	2.7	0.2	0.53	5	<0.5	0.7	0.163
B695197	RC Chip	0.044	14	9	0.37	79	0.020	<20	1.05	0.050	0.27	0.5	<0.01	1.2	0.4	0.28	4	<0.5	0.2	0.027
B695198	RC Chip	0.048	19	9	0.47	99	0.024	<20	1.22	0.051	0.28	0.3	<0.01	1.7	0.4	0.10	5	<0.5	<0.2	0.015



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Project: Rude Creek
Report Date: February 08, 2021

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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
B695199	RC Chip	2.84	2.6	3.6	134.3	232	4.4	2.5	3.3	552	1.67	9.2	3.6	95.3	10.6	40	7.7	0.8	3.5	5	1.61
B695200	RC Chip	2.03	2.7	31.5	53.5	173	1.0	2.1	3.7	471	1.62	100.4	3.1	493.4	10.2	54	5.9	2.3	4.8	6	1.84
B695201	RC Chip	1.70	2.4	119.6	15.3	28	0.5	1.7	2.7	384	1.60	62.4	3.3	102.9	10.0	44	0.7	5.6	3.3	3	2.27
B695202	RC Chip	1.74	2.7	287.0	38.8	43	2.2	2.5	3.8	361	1.86	73.9	4.2	99.3	10.7	37	1.1	1.6	24.8	4	2.09
B695203	RC Chip	1.46	1.6	65.4	16.2	41	0.6	4.0	4.5	364	2.37	18.0	3.6	18.1	14.0	34	0.7	1.6	4.6	34	1.13
B695204	RC Chip	1.68	2.1	27.4	12.0	36	0.3	4.6	5.6	344	2.41	10.9	3.6	3.8	14.9	63	0.6	1.2	1.4	38	0.99
B695205	RC Chip	1.46	1.2	11.3	9.9	43	0.2	4.9	9.3	374	2.60	9.9	2.1	42.3	14.3	36	0.5	0.7	2.9	39	0.91
B695206	RC Chip	1.58	1.7	26.0	32.1	76	1.2	4.0	6.5	555	2.32	8.7	2.5	78.7	15.5	35	2.6	1.4	2.7	32	1.34
B695207	RC Chip	1.72	1.5	11.0	25.3	86	0.5	4.1	7.1	557	2.33	5.3	2.6	85.2	15.5	35	2.4	1.0	0.9	30	1.63
B695208	RC Chip	2.17	1.7	3.9	15.2	57	0.2	4.1	7.1	476	2.39	7.0	2.0	<0.5	13.9	35	1.3	0.8	0.3	35	1.06
B695209	RC Chip	1.57	1.5	6.3	11.1	37	0.1	4.4	7.7	423	2.46	9.5	1.3	2.1	13.1	36	0.4	0.8	0.6	35	0.95
B695210	RC Chip	1.33	1.6	13.9	8.4	32	0.2	4.1	5.6	470	2.56	6.7	2.0	18.2	13.2	51	0.3	0.7	0.7	40	1.06
B695211	RC Chip	1.75	1.4	8.2	7.4	36	0.1	4.6	7.3	565	2.90	7.3	4.3	<0.5	18.0	57	0.4	0.8	0.6	47	0.98
B695212	RC Chip	1.88	1.9	11.3	8.5	27	0.1	4.1	5.6	388	2.40	10.9	3.1	6.7	14.3	44	0.2	0.8	0.6	39	0.85
B695213	RC Chip	1.88	1.7	16.7	8.7	29	0.1	3.9	8.0	346	2.67	11.9	3.0	17.6	13.8	60	0.2	0.8	1.3	37	0.91
B695214	RC Chip	1.39	1.4	11.9	7.8	21	<0.1	2.8	4.6	270	1.93	22.9	4.0	16.7	10.3	38	0.2	0.9	1.0	23	0.93
B695215	RC Chip	1.42	1.9	6.6	7.1	17	<0.1	3.3	3.7	246	1.79	9.6	3.1	0.5	12.2	72	0.1	0.8	0.4	27	0.87
B695216	RC Chip	2.03	1.6	14.0	16.2	49	0.2	4.1	5.7	461	2.37	8.2	3.5	5.4	13.2	111	1.3	0.6	1.5	30	1.75



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.005	
B695199	RC Chip	0.044	17	6	0.16	67	0.002	<20	0.72	0.030	0.32	0.9	0.01	0.9	0.3	0.40	2	<0.5	1.6	0.090
B695200	RC Chip	0.045	17	5	0.20	78	0.003	<20	0.80	0.031	0.31	0.6	<0.01	1.0	0.3	0.46	2	<0.5	0.4	0.090
B695201	RC Chip	0.044	14	4	0.09	81	0.001	<20	0.62	0.033	0.26	0.5	<0.01	1.0	0.2	0.67	1	<0.5	0.2	0.048
B695202	RC Chip	0.044	15	6	0.11	97	0.002	<20	0.71	0.039	0.27	1.1	<0.01	1.1	0.3	0.68	2	<0.5	0.2	0.199
B695203	RC Chip	0.059	14	12	0.46	64	0.059	<20	1.07	0.048	0.18	1.5	<0.01	2.2	0.2	0.20	5	<0.5	<0.2	0.053
B695204	RC Chip	0.066	14	14	0.47	68	0.087	<20	1.18	0.060	0.18	2.4	<0.01	2.3	0.2	0.08	6	<0.5	<0.2	0.012
B695205	RC Chip	0.067	11	11	0.58	49	0.079	<20	1.19	0.050	0.14	2.3	<0.01	3.0	0.2	0.55	6	<0.5	1.0	0.060
B695206	RC Chip	0.069	15	11	0.49	66	0.040	<20	1.10	0.044	0.22	1.5	<0.01	2.4	0.3	0.33	5	<0.5	0.3	0.074
B695207	RC Chip	0.069	19	10	0.53	56	0.016	<20	1.10	0.038	0.24	0.8	<0.01	2.4	0.4	0.14	5	<0.5	<0.2	0.039
B695208	RC Chip	0.069	11	12	0.54	52	0.072	<20	1.25	0.048	0.17	1.6	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2	0.006
B695209	RC Chip	0.064	12	12	0.56	47	0.089	<20	1.33	0.048	0.14	1.8	<0.01	2.2	0.2	0.11	6	<0.5	<0.2	0.007
B695210	RC Chip	0.065	15	12	0.58	50	0.076	<20	1.28	0.055	0.17	1.3	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2	0.014
B695211	RC Chip	0.073	17	13	0.66	57	0.075	<20	1.39	0.054	0.14	0.9	<0.01	2.9	0.2	<0.05	6	<0.5	<0.2	0.005
B695212	RC Chip	0.061	12	13	0.53	63	0.097	<20	1.24	0.062	0.15	2.3	<0.01	2.5	0.2	0.13	5	0.5	<0.2	0.015
B695213	RC Chip	0.059	10	13	0.62	44	0.088	<20	1.34	0.054	0.12	2.6	<0.01	2.2	0.2	0.37	6	<0.5	<0.2	0.035
B695214	RC Chip	0.034	5	10	0.42	41	0.049	<20	1.11	0.054	0.11	2.4	<0.01	1.5	0.1	0.25	5	<0.5	<0.2	0.024
B695215	RC Chip	0.045	6	12	0.37	64	0.049	<20	1.07	0.048	0.12	2.5	<0.01	1.6	0.1	0.08	4	<0.5	<0.2	0.009
B695216	RC Chip	0.065	12	11	0.52	87	0.027	<20	1.31	0.041	0.20	1.6	<0.01	2.3	0.3	0.39	5	<0.5	<0.2	0.021



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Project: Rude Creek
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QUALITY CONTROL REPORT

WHI20000518.1

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
B695088	RC Chip	2.59	1.7	7.9	10.1	33	0.1	3.8	7.2	439	2.23	15.6	2.6	3.9	15.4	48	<0.1	0.9	0.6	22	0.62
REP B695088	QC		1.7	7.5	9.7	30	0.1	3.6	6.9	436	2.20	15.6	2.5	2.6	14.6	46	0.1	0.9	0.6	21	0.62
B695091	RC Chip	2.86	2.0	102.2	22.5	32	5.1	4.1	10.6	426	2.62	60.9	4.6	49.1	15.9	56	0.2	1.4	36.6	13	0.77
REP B695091	QC		2.0	105.0	21.7	32	5.1	4.1	10.5	432	2.67	61.6	3.9	30.2	15.4	55	0.2	1.2	35.1	13	0.76
B695120	RC Chip	2.35	2.7	7.5	12.5	28	0.1	4.3	6.5	439	2.18	13.0	2.8	31.8	16.0	29	0.2	1.1	0.3	30	0.84
REP B695120	QC																				
B695122	RC Chip	2.13	4.0	23.2	10.2	33	0.2	4.5	5.7	531	2.70	13.5	2.4	6.6	14.1	44	0.3	1.3	0.5	35	0.92
REP B695122	QC		4.0	24.9	10.6	36	0.2	4.9	5.9	537	2.73	15.1	2.8	5.1	14.9	45	0.3	1.4	0.5	36	0.92
B695157	RC Chip	3.28	2.3	21.2	6.9	26	0.1	4.6	10.0	334	2.68	18.8	2.6	7.5	15.4	42	0.1	0.5	1.7	31	1.40
REP B695157	QC		2.5	22.6	7.2	25	0.1	4.5	10.0	345	2.76	18.8	3.2	5.9	17.3	45	<0.1	0.6	1.9	32	1.42
B695191	RC Chip	3.24	1.5	6.7	48.0	143	0.6	4.1	6.8	375	2.23	41.0	5.8	46.8	16.1	40	4.2	0.9	0.8	26	0.90
REP B695191	QC		1.4	6.2	45.1	137	0.6	4.1	6.6	375	2.23	38.8	5.1	43.2	15.2	40	4.3	0.7	0.8	26	0.89
B695192	RC Chip	3.34	1.7	9.8	7.0	37	<0.1	5.2	6.2	523	2.44	7.4	3.7	<0.5	16.0	41	0.4	1.0	0.2	38	0.89
REP B695192	QC																				
B695193	RC Chip	3.67	1.5	3.4	7.0	27	<0.1	4.3	6.5	635	2.38	7.8	3.1	<0.5	15.6	68	0.2	0.7	0.1	33	1.06
REP B695193	QC																				
Core Reject Duplicates																					
B695112	RC Chip	2.62	2.1	4.2	8.7	28	<0.1	5.1	7.9	449	2.61	7.9	3.6	1.2	17.8	43	0.2	1.2	0.1	43	0.91
DUP B695112	QC		1.6	3.4	8.8	28	<0.1	5.0	7.7	439	2.50	7.4	3.6	<0.5	17.7	40	0.2	1.3	0.1	42	0.89
B695146	RC Chip	2.18	2.8	23.6	11.4	26	0.2	4.4	5.3	306	2.47	12.3	2.7	134.5	12.6	38	0.2	0.6	11.5	28	1.24
DUP B695146	QC		2.4	22.6	11.3	26	0.2	4.7	5.4	306	2.44	12.6	2.7	299.8	12.5	39	0.2	0.6	11.6	28	1.23
B695179	RC Chip	2.96	1.4	10.6	11.3	29	0.2	4.9	7.5	368	2.44	15.0	3.3	6.0	15.5	77	0.2	1.1	0.8	42	0.89
DUP B695179	QC		1.5	10.4	11.4	28	0.2	4.7	7.4	358	2.39	14.3	3.4	2.8	15.1	78	0.2	1.0	0.8	41	0.88
B695213	RC Chip	1.88	1.7	16.7	8.7	29	0.1	3.9	8.0	346	2.67	11.9	3.0	17.6	13.8	60	0.2	0.8	1.3	37	0.91
DUP B695213	QC		1.8	17.5	9.0	30	0.1	4.1	8.0	344	2.67	12.8	2.9	26.9	13.6	64	0.2	0.8	1.4	37	0.90
Reference Materials																					
STD BVGE001	Standard		10.3	4514.0	183.9	1722	2.7	167.8	25.3	708	3.98	127.6	3.7	222.4	15.1	52	6.8	3.0	25.9	76	1.31
STD BVGE001	Standard		9.6	4468.3	176.3	1734	2.8	162.6	24.6	708	3.73	120.6	3.4	251.2	15.1	49	6.8	2.3	24.9	74	1.32



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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
Pulp Duplicates																				
B695088	RC Chip	0.068	14	8	0.28	98	0.008	<20	1.15	0.042	0.25	0.2	<0.01	2.1	0.3	0.25	4	<0.5	<0.2	0.010
REP B695088	QC	0.069	14	8	0.28	94	0.008	<20	1.14	0.042	0.24	0.1	<0.01	1.9	0.2	0.25	4	<0.5	<0.2	
B695091	RC Chip	0.069	14	6	0.31	81	0.004	<20	0.98	0.022	0.23	0.6	0.01	1.8	0.3	1.04	3	<0.5	<0.2	0.041
REP B695091	QC	0.068	14	6	0.32	81	0.003	<20	0.97	0.022	0.23	0.5	<0.01	1.7	0.3	1.07	3	<0.5	<0.2	
B695120	RC Chip	0.069	13	18	0.45	78	0.056	<20	0.99	0.049	0.14	0.8	<0.01	2.4	0.1	0.16	5	<0.5	<0.2	0.008
REP B695120	QC																			0.011
B695122	RC Chip	0.072	13	17	0.54	70	0.048	<20	1.23	0.048	0.16	0.6	<0.01	2.6	0.2	0.13	5	<0.5	<0.2	0.012
REP B695122	QC	0.075	14	17	0.55	72	0.050	<20	1.24	0.049	0.16	0.8	<0.01	2.9	0.2	0.14	6	<0.5	<0.2	
B695157	RC Chip	0.065	17	17	0.45	82	0.019	<20	1.20	0.039	0.17	0.7	<0.01	2.8	0.2	0.35	5	<0.5	<0.2	0.015
REP B695157	QC	0.073	18	17	0.47	85	0.021	<20	1.22	0.039	0.18	0.8	<0.01	3.0	0.2	0.35	5	<0.5	<0.2	
B695191	RC Chip	0.065	17	11	0.35	78	0.016	<20	1.08	0.046	0.23	0.5	0.01	2.1	0.3	0.38	4	<0.5	<0.2	0.043
REP B695191	QC	0.064	16	11	0.34	73	0.015	<20	1.07	0.045	0.23	0.4	<0.01	2.0	0.2	0.37	4	<0.5	<0.2	
B695192	RC Chip	0.071	20	14	0.52	92	0.053	<20	1.14	0.064	0.20	0.3	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2	<0.005
REP B695192	QC																			<0.005
B695193	RC Chip	0.070	16	13	0.50	66	0.024	<20	1.34	0.054	0.15	0.2	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2	<0.005
REP B695193	QC																			<0.005
Core Reject Duplicates																				
B695112	RC Chip	0.072	19	16	0.59	80	0.096	<20	1.31	0.062	0.18	0.8	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2	<0.005
DUP B695112	QC	0.073	17	14	0.57	73	0.095	<20	1.27	0.059	0.17	0.7	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2	<0.005
B695146	RC Chip	0.067	19	17	0.43	94	0.006	<20	1.03	0.042	0.18	1.0	<0.01	2.6	0.2	0.51	5	<0.5	2.6	0.236
DUP B695146	QC	0.067	20	17	0.43	96	0.006	<20	1.02	0.044	0.18	1.0	<0.01	2.5	0.2	0.48	5	<0.5	2.9	0.321
B695179	RC Chip	0.083	13	10	0.47	72	0.079	<20	1.24	0.057	0.15	2.0	<0.01	2.8	0.2	0.14	6	<0.5	<0.2	0.006
DUP B695179	QC	0.081	12	10	0.46	72	0.076	<20	1.23	0.056	0.15	2.3	<0.01	2.7	0.2	0.13	5	<0.5	<0.2	0.007
B695213	RC Chip	0.059	10	13	0.62	44	0.088	<20	1.34	0.054	0.12	2.6	<0.01	2.2	0.2	0.37	6	<0.5	<0.2	0.035
DUP B695213	QC	0.061	11	13	0.62	45	0.087	<20	1.33	0.054	0.12	2.9	<0.01	2.2	0.2	0.37	6	<0.5	<0.2	0.028
Reference Materials																				
STD BVGE001	Standard	0.078	28	169	1.31	357	0.248	<20	2.31	0.197	0.91	3.9	0.11	6.2	0.6	0.72	7	5.0	1.0	
STD BVGE001	Standard	0.070	27	155	1.31	325	0.226	<20	2.31	0.196	0.90	4.0	0.14	5.7	0.6	0.68	7	4.4	1.0	



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Project: Rude Creek
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QUALITY CONTROL REPORT

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		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
STD DS11	Standard		14.4	148.6	138.2	336	2.7	86.2	14.4	964	3.11	43.5	2.5	57.0	8.2	61	2.3	8.2	12.3	48	1.00
STD DS11	Standard		14.2	147.2	142.6	346	1.8	76.3	13.9	1045	3.12	48.8	2.5	74.7	8.7	66	2.7	7.2	11.9	48	1.06
STD DS11	Standard		12.1	137.5	132.7	329	1.7	70.6	12.2	972	2.98	43.5	2.3	49.3	8.3	59	2.5	7.6	11.2	42	0.97
STD OREAS262	Standard		0.6	120.6	56.0	161	0.5	68.0	28.8	535	3.42	39.2	1.2	72.5	9.6	34	0.7	3.8	1.1	21	3.03
STD OREAS262	Standard		0.7	121.5	61.8	153	0.5	68.2	29.5	548	3.43	38.1	1.3	74.2	10.3	35	0.8	3.3	1.2	22	2.88
STD OREAS262	Standard		0.6	114.4	56.9	155	0.5	63.2	27.4	544	3.40	39.5	1.2	79.3	9.8	34	0.7	2.8	1.1	21	2.97
STD OREAS262	Standard		0.7	114.6	55.4	155	0.5	64.2	27.8	557	3.42	39.2	1.2	84.5	9.4	33	0.6	2.8	1.0	21	3.01
STD OREAS262	Standard		0.6	113.2	55.5	153	0.5	60.6	26.2	528	3.32	38.7	1.2	60.1	10.9	36	0.6	3.7	1.0	20	3.04
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD BVGEO01 Expected			10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	1.3219
STD DS11 Expected			13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01



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Project: Rude Creek
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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
STD DS11	Standard	0.068	18	63	0.80	431	0.088	<20	1.04	0.067	0.38	3.0	0.26	2.9	4.9	0.28	4	1.9	4.8		
STD DS11	Standard	0.071	18	57	0.84	432	0.091	<20	1.14	0.073	0.41	2.8	0.26	3.1	4.8	0.29	5	2.5	4.7		
STD DS11	Standard	0.067	15	53	0.78	403	0.079	<20	1.01	0.067	0.37	2.6	0.25	2.9	4.7	0.26	5	1.7	4.3		
STD OREAS262	Standard	0.040	16	44	1.20	253	0.003	<20	1.20	0.070	0.30	0.2	0.16	3.3	0.5	0.28	4	0.7	0.3		
STD OREAS262	Standard	0.040	19	46	1.21	268	0.003	<20	1.31	0.071	0.33	0.2	0.18	3.3	0.5	0.28	4	0.9	0.2		
STD OREAS262	Standard	0.038	17	42	1.23	260	0.003	<20	1.24	0.070	0.31	0.1	0.18	3.6	0.5	0.28	4	0.7	0.3		
STD OREAS262	Standard	0.035	15	41	1.21	241	0.003	<20	1.19	0.071	0.30	0.1	0.20	3.2	0.5	0.27	4	0.6	0.2		
STD OREAS262	Standard	0.039	15	39	1.15	262	0.003	<20	1.13	0.069	0.28	0.1	0.17	3.4	0.5	0.26	4	0.5	0.2		
STD OXB130	Standard																			0.121	
STD OXB130	Standard																				0.122
STD OXB130	Standard																				0.120
STD OXG141	Standard																				0.916
STD OXG141	Standard																				0.915
STD OXG141	Standard																				0.925
STD OXN155	Standard																				7.337
STD OXN155	Standard																				7.857
STD OXN155	Standard																				7.486
STD BVGEO01 Expected		0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02		
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56		
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23		
STD OXG141 Expected																					0.93
STD OXN155 Expected																					7.762
STD OXB130 Expected																					0.125
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				<0.005



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QUALITY CONTROL REPORT

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		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	1.2	1.3	22	<0.1	0.7	3.5	385	1.70	1.0	0.5	3.6	2.5	19	<0.1	<0.1	<0.1	21	0.54
ROCK-WHI	Prep Blank		0.7	1.5	1.1	23	<0.1	0.7	3.8	398	1.78	1.3	0.4	2.2	2.6	19	<0.1	0.1	<0.1	24	0.52



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
BLK	Blank																			<0.005	
BLK	Blank																				0.006
BLK	Blank																				<0.005
BLK	Blank																				<0.005
BLK	Blank																				0.007
Prep Wash																					
ROCK-WHI	Prep Blank	0.036	7	2	0.38	65	0.076	<20	0.78	0.087	0.10	0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	0.010	
ROCK-WHI	Prep Blank	0.039	7	2	0.40	57	0.079	<20	0.76	0.073	0.08	0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2	<0.005	



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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: December 18, 2020
Report Date: January 18, 2021
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CERTIFICATE OF ANALYSIS

WHI20000519.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	131	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	131	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	131	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	131	Per sample shipping charges for branch shipments			VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI20000519.1

Method Analyte Unit MDL	WGHT Wgt kg	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	ppm
B695221	RC Chip	1.53	0.132	1.0	298.6	2836.7	363	12.4	6.2	7.5	323	3.77	95.2	8.0	62.2	20.6	34	12.9	4.1	7.1	17
B695217	RC Chip	1.35	0.017	2.0	9.7	21.4	47	0.2	3.8	3.4	305	2.09	6.0	3.0	6.7	10.9	46	1.2	0.9	1.8	22
B695218	RC Chip	2.43	0.041	2.0	13.6	21.0	27	0.5	3.8	4.8	303	2.23	11.1	3.2	22.0	10.6	63	0.4	0.8	1.7	22
B695219	RC Chip	1.68	0.062	1.2	19.6	16.1	33	0.5	4.1	8.6	223	2.59	34.1	6.2	49.8	17.0	121	0.8	0.8	2.5	20
B695220	RC Chip	1.86	0.076	1.0	52.9	39.6	58	1.3	5.1	12.5	402	3.29	27.3	4.8	95.6	20.4	64	1.0	0.6	4.2	23
B695222	RC Chip	2.66	0.082	1.2	15.2	73.2	35	0.7	3.7	6.7	145	2.73	17.6	6.4	47.4	17.8	82	1.1	0.5	5.1	13
B695223	RC Chip	2.96	0.175	1.6	77.4	25.8	24	0.9	4.2	3.7	236	2.73	14.0	3.7	79.3	13.2	115	0.6	3.4	20.0	15
B695224	RC Chip	2.07	0.202	1.1	88.3	141.4	246	3.4	4.9	5.5	350	3.05	15.8	5.7	1308.2	20.2	153	11.0	2.9	11.3	32
B695225	RC Chip	2.56	0.069	1.3	39.3	11.2	26	0.3	5.3	7.4	276	3.14	21.0	6.4	86.3	21.9	252	0.2	0.7	7.8	40
B695226	RC Chip	2.90	0.145	1.3	79.2	14.6	23	0.4	4.7	8.1	216	2.69	32.6	6.8	106.9	18.1	78	0.2	0.6	15.5	27
B695227	RC Chip	2.19	0.127	1.7	39.8	14.4	28	0.3	4.8	7.6	250	2.59	20.6	6.9	51.0	20.7	88	0.2	0.8	4.7	40
B695228	RC Chip	2.34	0.073	1.5	30.7	10.5	32	0.2	5.2	10.7	259	3.04	12.6	7.7	46.5	19.9	126	0.3	0.7	3.5	44
B695229	RC Chip	2.80	0.024	1.7	28.4	10.0	24	0.2	4.5	7.1	232	2.25	10.0	6.0	11.8	17.7	215	0.2	0.7	3.9	36
B695230	RC Chip	2.30	0.023	1.5	13.3	7.9	23	0.1	4.2	6.8	284	2.33	10.4	7.4	16.4	19.5	231	0.1	0.5	1.5	36
B695231	RC Chip	2.98	0.060	1.8	22.5	8.9	27	0.2	4.1	6.3	271	2.32	7.4	6.7	41.0	15.6	138	<0.1	0.8	2.4	37
B695232	RC Chip	2.92	0.074	1.5	20.7	8.6	25	0.2	4.1	7.0	242	2.61	7.8	7.4	40.1	15.9	165	0.1	0.6	7.1	35
B695233	RC Chip	2.79	0.098	1.9	31.6	9.8	21	0.3	4.4	6.4	194	2.51	12.7	6.2	46.1	16.5	59	0.2	0.7	5.8	29
B695234	RC Chip	3.57	0.110	1.5	36.9	21.7	95	0.8	3.9	4.9	192	2.90	31.3	5.2	90.4	15.6	52	3.2	2.5	9.1	16
B695235	RC Chip	3.14	0.049	1.7	25.0	10.5	27	0.2	4.5	9.3	285	2.41	22.7	5.0	19.6	16.3	173	0.2	0.6	3.1	30
B695236	RC Chip	3.37	0.030	1.5	39.8	9.5	25	0.4	4.3	5.7	276	2.40	32.1	7.7	36.0	17.0	208	0.1	0.7	3.8	38
B695237	RC Chip	2.96	0.026	1.7	15.5	10.0	22	0.2	4.0	5.0	255	2.09	29.8	5.2	10.8	15.4	305	0.1	0.7	2.1	33
B695238	RC Chip	3.33	0.072	1.8	43.9	51.1	112	2.6	4.2	6.6	280	2.00	32.7	6.7	58.8	16.4	100	2.5	5.9	10.5	20
B695239	RC Chip	2.87	0.020	6.1	19.1	9.0	25	0.2	3.9	5.6	287	2.13	13.1	5.7	32.2	15.5	63	0.1	1.4	1.7	38
B695240	RC Chip	1.52	0.011	5.4	9.5	5.6	24	<0.1	4.0	6.1	326	2.13	6.2	6.9	9.3	16.8	144	<0.1	1.3	0.8	38
B695241	RC Chip	2.70	0.010	2.6	15.7	4.9	26	<0.1	4.3	6.1	316	2.39	5.4	7.0	2.2	14.9	86	<0.1	0.8	1.2	43
B695242	RC Chip	3.19	0.045	2.3	52.1	7.4	26	0.2	5.6	6.7	293	2.76	20.9	5.5	29.7	16.4	150	<0.1	0.9	8.7	39
B695243	RC Chip	2.77	0.025	2.0	49.3	9.5	25	0.2	4.6	5.0	248	2.45	25.7	4.3	22.5	15.4	129	0.1	1.3	4.1	41
B695244	RC Chip	2.58	0.106	3.5	102.6	11.7	25	0.5	5.4	8.2	238	2.62	82.9	7.6	117.2	18.3	55	0.2	3.3	11.2	33
B695245	RC Chip	3.67	0.031	2.5	58.3	7.5	23	0.3	4.9	6.8	227	2.47	18.9	5.3	13.5	16.8	79	<0.1	0.9	5.2	40
B695246	RC Chip	3.06	0.008	2.6	10.5	5.1	23	<0.1	4.8	6.6	287	2.49	7.5	5.0	3.8	16.0	42	<0.1	0.8	1.1	42



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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
MDL		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B695221	RC Chip	0.97	0.091	19	5	0.20	56	0.002	<20	1.21	0.011	0.33	0.8	<0.01	1.7	0.4	2.89	3	<0.5	1.2
B695217	RC Chip	1.26	0.074	11	11	0.44	73	0.041	<20	0.96	0.045	0.20	2.8	<0.01	1.8	0.3	0.84	4	<0.5	0.3
B695218	RC Chip	1.51	0.085	15	8	0.46	96	0.015	<20	1.43	0.042	0.30	0.7	<0.01	1.8	0.4	0.55	4	<0.5	<0.2
B695219	RC Chip	1.19	0.064	14	7	0.33	81	0.005	<20	1.77	0.043	0.21	1.1	<0.01	1.4	0.3	1.33	3	<0.5	0.4
B695220	RC Chip	1.24	0.080	18	7	0.32	67	0.003	<20	1.52	0.025	0.29	0.7	<0.01	2.0	0.4	1.85	4	<0.5	0.6
B695222	RC Chip	1.01	0.076	13	5	0.13	82	0.001	<20	1.11	0.016	0.29	1.0	<0.01	0.9	0.3	2.21	2	<0.5	0.8
B695223	RC Chip	1.77	0.065	11	8	0.22	98	0.003	<20	1.00	0.033	0.27	1.8	<0.01	1.2	0.3	2.08	3	0.5	3.4
B695224	RC Chip	1.95	0.077	17	8	0.38	88	0.009	<20	1.51	0.032	0.23	0.6	<0.01	2.6	0.3	1.79	4	<0.5	1.3
B695225	RC Chip	1.30	0.082	22	12	0.61	127	0.024	<20	1.41	0.040	0.22	0.9	<0.01	3.2	0.3	1.41	6	<0.5	0.6
B695226	RC Chip	1.35	0.064	18	10	0.50	62	0.005	<20	0.99	0.035	0.19	1.6	<0.01	2.7	0.3	1.56	5	<0.5	0.6
B695227	RC Chip	1.03	0.069	20	14	0.56	59	0.027	<20	1.27	0.048	0.16	1.3	<0.01	3.6	0.2	0.85	6	<0.5	0.4
B695228	RC Chip	0.95	0.069	20	14	0.60	83	0.063	<20	1.32	0.055	0.17	1.6	<0.01	4.0	0.2	1.00	6	<0.5	0.4
B695229	RC Chip	0.99	0.061	15	14	0.50	89	0.042	<20	1.40	0.055	0.14	1.3	<0.01	3.0	0.2	0.45	5	<0.5	0.3
B695230	RC Chip	1.46	0.059	18	12	0.54	138	0.045	<20	1.29	0.048	0.19	1.6	<0.01	3.2	0.2	0.46	5	<0.5	<0.2
B695231	RC Chip	0.90	0.057	16	14	0.56	198	0.097	<20	1.11	0.059	0.29	3.0	<0.01	3.1	0.4	0.34	4	<0.5	<0.2
B695232	RC Chip	1.13	0.058	19	13	0.56	134	0.047	<20	1.06	0.048	0.19	2.3	<0.01	3.1	0.3	1.17	5	<0.5	0.7
B695233	RC Chip	0.98	0.060	14	13	0.41	60	0.012	<20	0.85	0.045	0.15	3.8	<0.01	2.6	0.2	1.47	4	<0.5	0.6
B695234	RC Chip	1.47	0.061	10	9	0.30	46	0.002	<20	0.70	0.026	0.17	2.4	<0.01	1.5	0.2	2.34	3	<0.5	0.9
B695235	RC Chip	1.38	0.073	17	12	0.49	91	0.009	<20	1.20	0.051	0.20	1.3	<0.01	2.8	0.3	0.92	5	<0.5	0.3
B695236	RC Chip	0.99	0.063	17	13	0.51	100	0.029	<20	1.20	0.047	0.13	1.1	<0.01	3.3	0.2	0.66	5	<0.5	0.3
B695237	RC Chip	1.19	0.061	18	13	0.40	110	0.015	<20	1.12	0.055	0.14	2.0	<0.01	2.8	0.2	0.57	5	<0.5	0.2
B695238	RC Chip	1.53	0.063	17	11	0.25	64	0.005	<20	1.07	0.042	0.17	1.5	<0.01	2.2	0.3	0.87	3	<0.5	0.8
B695239	RC Chip	1.23	0.060	14	14	0.50	67	0.056	<20	1.31	0.052	0.14	1.9	<0.01	2.9	0.2	0.28	5	<0.5	<0.2
B695240	RC Chip	0.81	0.058	18	15	0.58	267	0.113	<20	1.29	0.075	0.36	2.2	<0.01	2.8	0.5	0.13	4	<0.5	<0.2
B695241	RC Chip	0.60	0.057	18	16	0.63	304	0.133	<20	1.09	0.069	0.46	2.8	<0.01	3.2	0.6	0.13	4	<0.5	<0.2
B695242	RC Chip	1.00	0.059	21	18	0.59	220	0.072	<20	1.30	0.056	0.34	3.3	<0.01	3.4	0.5	0.61	5	<0.5	1.5
B695243	RC Chip	0.98	0.063	13	14	0.56	95	0.059	<20	1.31	0.052	0.15	3.3	<0.01	3.4	0.3	0.59	5	<0.5	0.3
B695244	RC Chip	1.06	0.062	18	17	0.45	128	0.050	<20	0.92	0.051	0.28	6.4	<0.01	2.9	0.4	0.95	4	<0.5	1.0
B695245	RC Chip	0.87	0.062	15	17	0.49	86	0.079	<20	1.03	0.058	0.18	6.6	<0.01	3.2	0.2	0.61	5	<0.5	1.2
B695246	RC Chip	0.63	0.057	18	19	0.55	216	0.132	<20	1.00	0.076	0.37	5.6	<0.01	3.0	0.5	0.15	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B695247	RC Chip	2.75	0.011	2.7	27.1	6.7	26	0.2	6.6	7.0	324	2.47	93.7	5.6	5.1	16.6	33	<0.1	2.6	2.9	40
B695248	RC Chip	2.08	0.061	2.6	102.8	10.0	23	0.5	5.3	7.8	235	2.63	71.0	4.8	30.2	15.6	51	0.1	2.2	13.2	33
B695249	RC Chip	3.16	0.088	2.1	61.0	7.2	25	0.3	4.8	7.7	232	2.74	17.3	4.7	19.2	15.5	40	<0.1	0.8	7.0	42
B695250	RC Chip	2.59	0.059	2.0	44.3	7.1	23	0.2	4.2	6.2	217	2.51	15.9	5.7	44.0	16.1	86	0.2	0.7	7.9	38
B695251	RC Chip	2.59	0.070	2.3	61.0	7.0	24	0.3	4.7	6.8	214	2.60	23.5	4.8	35.9	15.5	80	<0.1	0.7	11.2	41
B695252	RC Chip	3.31	0.038	3.5	41.8	7.1	28	0.2	5.3	7.9	237	2.74	18.7	4.6	30.2	15.8	73	0.1	0.8	5.3	48
B695253	RC Chip	2.68	0.023	2.0	26.1	7.1	19	0.1	5.0	7.0	239	2.22	9.9	3.0	39.1	15.1	47	<0.1	0.7	3.9	30
B695254	RC Chip	3.25	0.014	2.4	14.0	7.6	24	0.1	4.9	8.7	281	2.85	7.1	4.2	7.2	15.3	105	<0.1	1.0	2.7	39
B695255	RC Chip	2.67	0.009	3.3	8.0	5.7	25	<0.1	5.8	7.1	346	2.52	5.3	4.1	1.6	16.5	89	<0.1	0.8	0.6	45
B695256	RC Chip	1.85	0.006	2.7	5.7	6.6	28	<0.1	4.6	6.4	367	2.42	4.7	5.5	2.3	17.5	79	<0.1	0.7	0.3	47
B695257	RC Chip	3.08	0.026	1.8	37.9	36.5	38	0.6	7.0	8.3	470	2.52	15.0	4.0	12.3	14.9	107	0.6	1.3	4.7	39
B695258	RC Chip	2.66	0.025	1.6	28.4	30.7	30	0.5	5.6	9.5	384	2.10	94.1	4.2	17.1	15.1	94	0.7	0.8	1.9	31
B695259	RC Chip	2.99	0.028	1.9	33.1	12.7	26	0.3	5.8	8.9	321	2.79	60.6	6.2	23.2	15.3	74	0.2	1.4	1.9	32
B695260	RC Chip	3.61	0.025	1.4	34.9	8.3	28	0.1	4.6	7.7	295	2.39	28.0	4.7	7.9	15.4	48	<0.1	1.3	3.9	33
B695261	RC Chip	3.41	0.041	1.6	9.2	37.0	65	0.8	5.1	15.1	442	2.84	17.3	2.6	30.0	14.8	29	1.3	0.7	1.6	39
B695262	RC Chip	2.90	0.012	1.4	12.4	9.5	31	0.1	4.4	9.1	315	2.19	13.3	2.5	4.4	14.7	123	0.2	1.2	0.9	31
B695263	RC Chip	3.56	0.012	1.4	15.4	11.2	30	0.2	4.5	6.6	367	2.36	9.9	2.5	4.2	16.1	57	0.1	1.2	1.7	35
B695264	RC Chip	2.63	0.014	1.3	18.1	10.9	30	0.2	4.5	6.6	389	2.35	17.3	2.5	11.9	16.3	119	0.2	0.8	4.2	36
B695265	RC Chip	2.06	0.033	1.2	18.2	19.3	34	0.5	5.4	11.5	336	2.69	79.8	3.1	72.4	14.4	93	0.4	1.1	5.4	29
B695266	RC Chip	3.30	0.057	3.2	81.4	13.3	66	0.7	17.6	17.4	635	4.50	39.9	3.4	20.0	11.7	61	0.3	2.0	11.4	79
B695267	RC Chip	4.06	0.033	2.8	31.9	11.5	61	0.3	15.1	12.4	643	4.16	76.0	3.2	123.8	12.5	66	0.1	1.8	6.4	72
B695268	RC Chip	3.49	0.075	1.7	14.5	16.1	36	0.3	4.9	13.9	410	3.17	452.6	2.7	18.0	12.6	82	0.2	1.3	2.0	51
B695269	RC Chip	3.84	0.029	1.7	29.5	12.2	37	0.3	4.9	15.1	426	3.03	231.6	4.3	10.6	12.7	74	0.2	1.3	2.3	48
B695270	RC Chip	3.28	0.026	1.7	34.9	8.9	44	0.3	5.1	13.1	477	2.90	146.5	3.7	58.3	14.6	66	0.2	1.4	4.0	48
B695271	RC Chip	3.54	0.111	1.7	33.5	132.9	271	2.4	4.6	14.0	320	5.36	83.5	3.0	32.9	11.7	31	11.3	1.1	8.6	30
B695272	RC Chip	3.32	0.048	2.0	17.5	126.8	188	2.0	5.3	15.9	381	5.56	104.6	2.9	45.7	12.3	37	5.0	1.4	6.6	32
B695273	RC Chip	3.26	0.009	1.3	10.1	4.3	31	0.1	3.4	6.9	496	2.05	15.8	1.9	5.6	11.0	28	0.3	1.7	0.8	21
B695274	RC Chip	3.13	0.017	1.9	10.0	8.0	42	0.1	5.4	24.3	548	2.40	29.8	2.7	10.9	11.8	48	0.3	1.8	0.8	28
B695275	RC Chip	2.56	0.024	2.8	10.9	10.3	47	0.4	8.9	9.4	543	3.20	51.4	2.8	27.6	11.7	69	0.3	1.7	4.9	44
B695276	RC Chip	3.57	0.018	1.9	11.2	7.7	27	0.2	5.1	9.7	307	2.12	112.2	3.7	12.4	13.2	45	0.6	1.4	1.4	27



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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B695247	RC Chip	0.74	0.060	21	19	0.53	243	0.123	<20	0.92	0.068	0.38	5.8	<0.01	2.8	0.4	0.39	4	<0.5	0.4
B695248	RC Chip	1.18	0.061	16	17	0.50	88	0.051	<20	0.97	0.046	0.21	5.7	<0.01	2.6	0.3	1.01	4	<0.5	4.0
B695249	RC Chip	0.84	0.063	18	16	0.62	129	0.104	<20	1.02	0.049	0.23	5.3	<0.01	3.4	0.4	1.01	5	<0.5	1.1
B695250	RC Chip	0.85	0.065	17	15	0.56	111	0.069	<20	1.06	0.059	0.21	3.9	<0.01	3.2	0.3	0.82	4	<0.5	1.5
B695251	RC Chip	0.75	0.067	17	15	0.59	106	0.096	<20	1.19	0.067	0.18	5.1	<0.01	3.4	0.3	0.82	5	<0.5	2.2
B695252	RC Chip	0.81	0.071	18	18	0.62	145	0.124	20	1.23	0.075	0.25	5.5	<0.01	3.9	0.4	0.57	5	<0.5	0.8
B695253	RC Chip	1.00	0.071	12	15	0.53	42	0.029	<20	1.01	0.045	0.11	4.6	<0.01	2.4	0.2	0.78	4	<0.5	0.3
B695254	RC Chip	0.97	0.069	15	17	0.66	149	0.095	<20	1.25	0.073	0.22	6.3	<0.01	2.9	0.3	1.21	5	<0.5	0.2
B695255	RC Chip	0.85	0.072	23	23	0.60	309	0.148	<20	1.37	0.101	0.43	5.7	0.01	2.8	0.5	0.18	4	<0.5	<0.2
B695256	RC Chip	0.96	0.071	26	20	0.58	323	0.153	<20	1.59	0.124	0.45	4.1	<0.01	3.1	0.5	0.08	5	<0.5	<0.2
B695257	RC Chip	0.78	0.080	18	12	0.46	121	0.028	<20	1.58	0.045	0.20	0.4	0.01	2.8	0.2	0.06	5	<0.5	0.4
B695258	RC Chip	0.97	0.074	18	9	0.39	70	0.021	<20	1.32	0.036	0.18	0.7	<0.01	2.4	0.2	0.08	4	<0.5	0.2
B695259	RC Chip	0.79	0.077	12	10	0.39	87	0.059	<20	1.20	0.051	0.17	2.7	0.01	2.4	0.2	0.52	4	<0.5	<0.2
B695260	RC Chip	0.72	0.075	11	10	0.40	85	0.069	<20	0.99	0.053	0.18	1.8	<0.01	2.3	0.2	0.40	5	<0.5	0.4
B695261	RC Chip	1.17	0.075	12	11	0.57	61	0.052	<20	1.16	0.042	0.17	2.4	<0.01	3.1	0.2	0.63	6	<0.5	0.4
B695262	RC Chip	0.96	0.075	11	10	0.44	104	0.068	<20	1.24	0.053	0.15	1.6	<0.01	2.4	0.2	0.33	5	<0.5	<0.2
B695263	RC Chip	1.19	0.079	14	11	0.47	95	0.057	<20	1.14	0.054	0.18	1.8	<0.01	2.4	0.2	0.35	5	<0.5	0.2
B695264	RC Chip	1.34	0.083	17	11	0.50	98	0.036	<20	1.20	0.048	0.18	1.3	0.01	2.4	0.2	0.32	5	<0.5	<0.2
B695265	RC Chip	1.41	0.078	14	10	0.47	77	0.020	<20	1.32	0.057	0.16	1.7	0.01	2.4	0.2	1.12	4	<0.5	0.4
B695266	RC Chip	1.19	0.107	12	55	1.68	128	0.131	<20	2.44	0.051	0.82	0.6	0.01	5.7	1.4	1.14	9	<0.5	0.6
B695267	RC Chip	1.24	0.097	13	47	1.35	89	0.117	<20	2.20	0.052	0.41	1.9	<0.01	5.3	0.6	0.76	9	<0.5	<0.2
B695268	RC Chip	0.92	0.073	14	15	0.66	67	0.083	<20	1.51	0.067	0.15	3.3	0.01	3.9	0.2	0.92	6	<0.5	<0.2
B695269	RC Chip	0.95	0.072	13	14	0.63	61	0.083	<20	1.51	0.065	0.14	3.2	0.01	3.6	0.2	0.77	7	<0.5	<0.2
B695270	RC Chip	0.83	0.080	21	18	0.69	152	0.110	<20	1.37	0.072	0.23	2.5	<0.01	3.7	0.3	0.40	6	<0.5	0.2
B695271	RC Chip	0.77	0.072	11	11	0.54	76	0.048	<20	1.06	0.049	0.21	2.0	0.02	2.3	0.2	4.06	5	<0.5	0.5
B695272	RC Chip	0.97	0.074	12	13	0.56	82	0.048	<20	1.22	0.056	0.22	2.3	0.02	2.6	0.3	4.17	5	0.9	0.4
B695273	RC Chip	0.85	0.091	12	7	0.46	118	0.045	<20	1.30	0.050	0.29	3.7	<0.01	1.8	0.3	0.21	4	<0.5	<0.2
B695274	RC Chip	1.08	0.080	12	12	0.50	100	0.055	<20	1.34	0.059	0.21	45.1	<0.01	1.9	0.2	0.26	5	<0.5	<0.2
B695275	RC Chip	1.02	0.090	12	27	0.85	91	0.066	<20	1.48	0.053	0.30	2.7	0.01	3.2	0.4	0.95	6	<0.5	0.6
B695276	RC Chip	0.95	0.078	12	14	0.38	82	0.052	<20	1.09	0.052	0.22	5.6	<0.01	2.3	0.2	0.70	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V		
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1		
B695277	RC Chip	3.34	0.051	2.0	32.6	20.0	56	0.4	4.9	9.1	412	2.41	31.1	2.0	7.8	12.4	71	0.7	1.8	2.0	36	
B695278	RC Chip	2.82	0.018	2.6	22.4	81.2	135	1.4	4.3	21.3	512	2.67	101.0	4.0	8.4	12.9	82	4.0	1.5	3.2	31	
B695279	RC Chip	3.35	0.011	1.7	36.4	69.6	94	0.9	4.4	11.6	689	2.28	29.3	2.5	6.3	13.2	321	2.4	1.0	1.4	32	
B695280	RC Chip	3.11	0.026	3.2	37.4	36.3	84	0.7	4.3	15.9	510	2.02	23.7	5.9	9.9	14.0	80	2.7	1.1	1.4	23	
B695281	RC Chip	3.12	0.027	1.9	45.3	56.8	78	0.4	4.2	4.9	559	1.98	9.8	3.0	10.9	15.4	39	1.2	1.2	3.6	25	
B695282	RC Chip	3.05	0.025	2.0	68.2	36.7	58	0.7	4.6	8.3	834	2.21	14.9	2.4	8.1	12.8	56	2.0	1.5	4.7	33	
B695283	RC Chip	2.54	0.021	2.5	15.2	15.6	44	0.2	4.6	7.6	530	2.38	16.1	2.0	7.3	12.9	85	1.0	1.5	1.0	39	
B695284	RC Chip	3.94	0.025	1.8	17.5	10.7	55	0.2	6.2	10.4	594	3.04	17.6	1.4	9.5	18.9	78	0.6	1.8	1.1	52	
B695285	RC Chip	3.23	0.011	1.7	8.3	6.3	31	<0.1	5.3	14.4	473	3.07	26.7	2.4	2.2	17.5	110	<0.1	1.9	0.3	45	
B695286	RC Chip	3.27	0.026	2.0	13.5	5.7	36	0.1	4.7	9.0	503	2.22	15.2	1.9	300.7	12.7	40	0.5	1.7	0.6	29	
B695287	RC Chip	2.83	0.021	1.8	5.9	9.0	32	<0.1	4.5	7.6	414	2.18	11.8	2.4	2.2	13.0	44	0.4	1.7	0.3	27	
B695288	RC Chip	3.20	0.008	1.9	6.6	8.9	30	<0.1	5.1	8.0	429	2.62	13.1	2.8	<0.5	17.7	75	0.1	1.9	0.2	37	
B695289	RC Chip	2.78	0.014	2.1	11.7	14.5	37	0.2	5.3	9.2	505	2.53	9.3	4.3	5.3	18.1	76	0.7	1.0	1.8	28	
B695290	RC Chip	2.53	0.036	1.8	6.6	9.7	27	0.3	4.6	9.8	481	2.22	19.5	3.4	7.1	13.7	105	0.3	0.7	2.2	21	
B695291	RC Chip	3.05	0.012	1.7	10.3	68.6	117	0.2	4.4	8.8	496	2.13	9.7	4.2	3.7	13.7	83	5.5	1.0	0.7	25	
B695292	RC Chip	3.21	0.025	2.7	10.8	11.1	40	0.1	5.8	12.6	427	2.91	25.2	6.3	3.1	16.4	54	0.2	1.2	0.5	42	
B695293	RC Chip	4.40	0.006	2.0	8.5	9.3	29	<0.1	4.4	5.6	346	1.98	8.4	3.1	<0.5	17.8	60	0.2	1.2	0.1	31	
B695294	RC Chip	3.36	0.026	1.5	18.5	9.0	35	0.1	4.8	8.0	451	2.51	7.5	4.6	5.0	21.7	95	0.3	0.8	1.2	43	
B695295	RC Chip	2.67	0.016	6.0	12.4	1225.7	262	7.3	2.9	5.6	1088	1.96	17.9	4.3	10.8	13.5	298	9.2	1.4	7.6	23	
B695338	Rock DUP		0.023	6.3	12.6	1180.8	258	4.9	3.2	5.8	1057	1.97	18.0	4.2	7.6	13.2	288	8.8	1.4	7.2	22	
B695296	RC Chip	2.81	0.006	1.8	5.7	632.8	81	2.1	3.4	4.8	455	1.86	7.9	4.5	<0.5	17.3	54	1.9	1.3	2.9	19	
B695297	RC Chip	3.12	0.006	2.0	13.6	50.0	38	0.3	6.1	6.8	481	2.69	9.6	3.0	4.3	21.0	35	0.3	1.5	0.5	39	
B695298	RC Chip	3.87	0.006	11.0	9.2	19.4	35	0.1	5.0	7.3	559	2.48	11.2	3.6	<0.5	22.3	60	0.3	1.8	0.2	33	
B695299	RC Chip	3.48	0.019	2.2	11.4	23.2	25	0.1	4.3	7.8	380	1.94	14.2	4.5	1.4	19.1	72	0.1	1.8	0.2	25	
B695300	RC Chip	3.90	0.010	1.9	3.2	11.1	28	<0.1	5.2	11.5	456	2.14	9.5	2.6	3.5	16.0	33	<0.1	1.3	0.2	26	
B695301	RC Chip	2.72	0.007	1.7	23.4	11.2	29	0.1	4.7	6.6	402	2.16	12.7	2.2	0.8	15.3	44	<0.1	1.3	0.5	25	
B695302	RC Chip	3.14	0.007	1.4	32.6	10.9	31	0.2	4.7	8.7	405	2.56	14.3	4.0	2.6	18.4	58	<0.1	1.0	0.2	31	
B695303	RC Chip	2.93	0.010	1.1	14.7	8.6	24	0.2	4.1	10.7	390	2.32	14.8	4.6	3.1	12.1	75	0.1	0.8	0.8	23	
B695304	RC Chip	3.72	0.010	1.8	8.7	8.0	30	0.1	5.3	9.9	492	2.79	11.2	2.4	1.6	15.4	112	<0.1	2.1	0.6	33	
B695305	RC Chip	3.25	0.008	1.4	3.1	6.9	21	<0.1	4.1	4.1	322	1.55	21.5	4.4	0.5	13.9	78	0.1	1.5	0.1	16	



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B695277	RC Chip	0.91	0.075	12	15	0.53	63	0.086	<20	1.23	0.056	0.14	15.3	<0.01	2.2	0.1	0.37	6	<0.5	<0.2
B695278	RC Chip	1.53	0.084	19	11	0.44	83	0.011	<20	1.12	0.049	0.22	44.7	<0.01	2.5	0.2	1.11	5	<0.5	0.4
B695279	RC Chip	1.40	0.079	17	13	0.51	153	0.010	<20	1.64	0.055	0.17	1.2	0.02	2.5	0.2	0.25	6	<0.5	<0.2
B695280	RC Chip	1.00	0.077	21	10	0.30	107	0.012	<20	1.14	0.046	0.27	44.4	<0.01	2.0	0.3	0.27	4	<0.5	<0.2
B695281	RC Chip	1.47	0.082	24	12	0.31	87	0.005	<20	0.92	0.037	0.24	5.0	<0.01	2.1	0.3	0.16	4	<0.5	<0.2
B695282	RC Chip	1.24	0.079	18	12	0.44	77	0.039	<20	1.22	0.046	0.21	2.2	<0.01	2.5	0.2	0.17	5	<0.5	<0.2
B695283	RC Chip	0.96	0.076	16	14	0.49	83	0.070	<20	1.33	0.061	0.18	4.0	0.01	2.7	0.2	0.07	5	<0.5	<0.2
B695284	RC Chip	0.81	0.097	18	16	0.77	65	0.113	<20	1.58	0.055	0.17	2.0	<0.01	3.6	0.2	0.18	8	<0.5	<0.2
B695285	RC Chip	0.83	0.081	15	14	0.62	120	0.109	<20	1.58	0.093	0.26	2.8	<0.01	3.8	0.4	0.29	6	<0.5	<0.2
B695286	RC Chip	0.86	0.066	11	11	0.45	73	0.051	<20	1.15	0.049	0.19	1.3	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
B695287	RC Chip	0.84	0.071	11	13	0.42	73	0.072	<20	1.17	0.049	0.16	2.9	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
B695288	RC Chip	0.80	0.079	15	14	0.50	80	0.094	<20	1.23	0.048	0.15	1.9	<0.01	2.7	0.1	<0.05	6	<0.5	<0.2
B695289	RC Chip	0.86	0.072	17	12	0.39	123	0.027	<20	1.20	0.043	0.23	1.0	<0.01	2.5	0.3	0.55	4	<0.5	0.5
B695290	RC Chip	1.36	0.077	17	9	0.34	112	0.006	<20	1.36	0.040	0.20	0.8	<0.01	2.3	0.2	0.83	4	<0.5	0.7
B695291	RC Chip	1.95	0.072	18	12	0.35	86	0.008	<20	1.24	0.043	0.23	1.0	<0.01	2.2	0.3	0.36	4	<0.5	0.3
B695292	RC Chip	0.94	0.094	16	16	0.69	64	0.109	27	1.28	0.046	0.13	1.7	<0.01	2.8	0.2	0.28	6	<0.5	<0.2
B695293	RC Chip	0.89	0.067	13	15	0.47	66	0.089	<20	1.19	0.059	0.13	1.5	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
B695294	RC Chip	1.41	0.082	23	14	0.69	72	0.060	<20	1.36	0.040	0.16	5.1	<0.01	3.8	0.2	0.40	6	<0.5	0.2
B695295	RC Chip	1.69	0.074	19	8	0.25	131	0.009	<20	1.84	0.050	0.25	0.5	<0.01	2.1	0.3	0.23	4	<0.5	0.5
B695338	Rock DUP	1.63	0.070	18	8	0.25	125	0.009	<20	1.79	0.049	0.24	2.4	<0.01	2.0	0.3	0.22	4	<0.5	0.5
B695296	RC Chip	1.20	0.060	14	11	0.36	60	0.021	<20	1.02	0.031	0.21	1.6	0.01	2.0	0.3	0.11	4	<0.5	<0.2
B695297	RC Chip	0.90	0.083	14	15	0.59	74	0.077	<20	1.48	0.043	0.16	1.1	<0.01	3.3	0.2	<0.05	6	<0.5	<0.2
B695298	RC Chip	0.87	0.081	13	14	0.52	115	0.075	<20	1.43	0.054	0.19	1.2	<0.01	3.0	0.2	<0.05	6	<0.5	<0.2
B695299	RC Chip	0.73	0.072	10	12	0.41	112	0.070	<20	1.16	0.053	0.19	1.3	<0.01	2.3	0.2	0.08	4	<0.5	<0.2
B695300	RC Chip	1.13	0.072	15	13	0.44	71	0.035	<20	1.13	0.049	0.21	0.6	<0.01	2.7	0.2	0.07	5	<0.5	<0.2
B695301	RC Chip	1.03	0.071	12	12	0.42	68	0.022	<20	1.16	0.041	0.18	0.3	<0.01	2.6	0.2	<0.05	5	<0.5	<0.2
B695302	RC Chip	0.88	0.078	21	11	0.50	126	0.010	<20	2.22	0.042	0.32	0.2	<0.01	4.4	0.3	0.08	7	<0.5	<0.2
B695303	RC Chip	0.98	0.069	15	10	0.44	70	0.005	<20	1.42	0.035	0.18	0.2	<0.01	2.8	0.2	0.23	5	<0.5	<0.2
B695304	RC Chip	0.95	0.082	15	13	0.55	85	0.049	<20	1.36	0.049	0.17	0.9	0.01	3.0	0.2	0.22	5	<0.5	<0.2
B695305	RC Chip	0.67	0.046	9	8	0.34	105	0.029	<20	1.25	0.094	0.25	0.6	<0.01	1.7	0.3	<0.05	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B695306	RC Chip	2.76	0.011	2.6	6.4	7.3	26	<0.1	4.0	6.0	344	1.90	18.0	3.5	0.9	16.0	108	<0.1	2.6	0.1	22
B695307	RC Chip	2.76	0.006	1.6	3.7	10.1	30	<0.1	4.5	7.5	450	2.15	12.9	3.0	<0.5	19.6	66	<0.1	2.7	<0.1	29
B695308	RC Chip	2.15	<0.005	1.8	1.7	9.6	33	<0.1	4.1	6.0	485	2.21	11.8	2.4	<0.5	15.9	103	0.2	2.7	0.1	30
B695309	RC Chip	2.44	0.019	1.8	13.8	10.4	31	0.1	4.7	9.9	415	2.27	21.7	2.3	3.4	14.1	75	<0.1	2.0	0.6	26
B695310	RC Chip	2.41	0.014	1.4	11.2	6.4	30	0.2	4.4	8.4	432	2.33	9.6	2.5	3.2	14.9	46	0.1	1.4	2.8	30
B695311	RC Chip	2.77	0.011	1.7	4.5	6.1	26	<0.1	4.6	7.7	433	2.62	8.9	3.3	11.3	16.3	62	<0.1	1.2	0.4	44
B695312	RC Chip	3.34	0.009	2.0	10.1	8.0	26	<0.1	4.9	8.5	430	2.77	11.5	3.8	2.9	16.9	73	<0.1	1.2	0.4	47
B695313	RC Chip	3.02	0.121	1.9	9.9	8.9	24	0.1	5.2	11.6	312	3.07	17.7	3.2	49.5	15.7	81	0.1	1.4	2.8	36
B695314	RC Chip	3.76	0.051	2.2	9.0	7.3	25	<0.1	4.6	16.3	355	2.58	9.5	3.3	21.2	17.0	78	0.1	0.9	0.6	40
B695315	RC Chip	3.43	0.050	1.3	29.2	33.6	112	1.6	3.7	10.0	518	2.38	16.9	4.5	30.4	16.5	104	2.4	3.8	3.6	30
B695316	RC Chip	2.33	0.221	1.6	63.0	8.6	26	0.3	4.5	9.3	393	2.60	16.9	4.5	64.2	17.6	157	0.2	0.7	4.9	34
B695317	RC Chip	4.09	0.164	2.0	62.0	25.3	23	0.3	4.7	6.2	331	2.68	28.8	4.0	119.1	17.8	112	0.2	0.7	8.4	34
B695318	RC Chip	3.84	0.078	2.4	26.0	34.1	38	0.8	3.6	6.3	282	2.55	45.1	4.4	22.7	13.2	107	0.6	2.9	4.4	20
B695319	RC Chip	2.66	0.341	3.2	79.5	139.7	45	2.9	2.6	4.0	325	1.54	164.1	3.7	177.3	9.5	41	1.1	13.9	17.9	3
B695320	RC Chip	2.62	0.364	3.3	38.6	73.5	19	1.7	2.4	4.3	362	1.96	60.2	2.9	715.5	9.1	44	0.4	3.0	12.9	2
B695321	RC Chip	3.54	0.083	2.4	50.3	28.4	28	0.8	4.6	6.9	382	2.26	37.5	3.6	19.3	12.8	39	0.1	0.9	8.8	23
B695322	RC Chip	4.23	0.021	1.8	10.5	4.7	28	0.1	4.7	5.8	347	2.56	18.4	2.9	11.9	14.9	44	<0.1	0.8	1.3	35
B0053769	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053770	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053771	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053772	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B695325	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053773	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053774	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053775	RC Chip	2.38	<0.005	1.5	11.0	6.2	34	<0.1	4.5	5.1	445	2.44	8.5	3.3	1.0	18.5	27	0.1	1.7	0.2	42
B0053776	RC Chip	2.50	<0.005	1.4	13.2	10.2	36	<0.1	4.2	4.9	465	2.12	6.9	2.4	0.8	13.1	27	0.2	2.2	0.4	33
B0053777	RC Chip	2.67	0.014	1.6	13.5	9.6	37	0.2	4.6	8.0	451	2.42	15.4	3.0	13.0	14.2	38	0.2	2.1	0.7	38
B0053778	RC Chip	2.78	0.006	1.5	8.6	11.4	36	0.1	4.2	7.2	458	2.14	16.5	5.7	3.9	22.3	30	0.2	2.6	0.4	30
B0053779	RC Chip	2.45	0.020	1.5	10.4	6.9	34	0.1	4.7	8.6	580	1.87	31.7	5.4	17.9	16.7	15	0.2	1.9	1.1	18
B0053780	RC Chip	2.93	0.011	1.5	9.4	8.2	44	0.2	4.6	7.9	661	2.19	24.8	4.0	3.2	15.5	29	0.2	1.5	0.7	30



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B695306	RC Chip	0.64	0.051	9	12	0.38	96	0.053	<20	1.13	0.068	0.17	1.6	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2
B695307	RC Chip	0.72	0.069	11	12	0.46	82	0.078	<20	1.29	0.075	0.18	1.2	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
B695308	RC Chip	0.80	0.068	13	13	0.49	60	0.087	<20	1.23	0.056	0.14	1.5	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
B695309	RC Chip	0.76	0.068	10	12	0.42	71	0.066	<20	1.05	0.043	0.16	9.8	<0.01	2.2	0.2	0.18	4	<0.5	<0.2
B695310	RC Chip	0.98	0.074	13	11	0.46	65	0.070	<20	1.13	0.046	0.18	1.2	<0.01	2.2	0.2	0.11	5	<0.5	<0.2
B695311	RC Chip	0.73	0.069	14	14	0.52	46	0.085	<20	1.12	0.054	0.10	4.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
B695312	RC Chip	1.00	0.075	16	17	0.56	80	0.100	<20	1.40	0.072	0.14	1.9	<0.01	3.5	0.2	0.06	6	<0.5	<0.2
B695313	RC Chip	0.76	0.076	11	15	0.53	86	0.090	<20	1.17	0.056	0.24	10.4	0.01	2.9	0.4	1.07	5	<0.5	<0.2
B695314	RC Chip	1.03	0.075	13	16	0.59	61	0.075	<20	1.32	0.057	0.12	37.2	0.02	2.9	0.1	0.24	6	<0.5	<0.2
B695315	RC Chip	2.11	0.076	23	11	0.42	60	0.009	<20	1.35	0.038	0.18	5.3	0.02	3.2	0.2	0.39	5	<0.5	<0.2
B695316	RC Chip	1.41	0.074	21	13	0.49	81	0.011	<20	1.32	0.037	0.16	0.9	<0.01	3.1	0.2	0.45	5	<0.5	<0.2
B695317	RC Chip	1.37	0.078	22	13	0.48	73	0.014	<20	1.44	0.038	0.19	2.1	<0.01	3.3	0.3	0.59	6	<0.5	<0.2
B695318	RC Chip	1.59	0.059	14	8	0.25	81	0.008	<20	1.08	0.030	0.23	1.1	0.01	2.1	0.3	1.32	3	<0.5	0.3
B695319	RC Chip	1.91	0.047	14	5	0.09	66	<0.001	<20	0.66	0.015	0.30	2.5	<0.01	0.5	0.3	0.82	2	<0.5	0.6
B695320	RC Chip	2.04	0.046	12	5	0.09	57	<0.001	<20	0.60	0.015	0.25	1.0	<0.01	0.4	0.3	1.24	1	<0.5	1.4
B695321	RC Chip	1.55	0.064	15	10	0.42	62	0.016	<20	1.12	0.039	0.30	3.3	<0.01	2.4	0.4	0.59	5	<0.5	<0.2
B695322	RC Chip	1.07	0.067	13	13	0.56	51	0.040	<20	1.16	0.055	0.20	2.6	<0.01	2.7	0.3	0.53	5	<0.5	<0.2
B0053769	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053770	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053771	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053772	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B695325	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053773	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053774	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053775	RC Chip	0.51	0.057	19	14	0.65	202	0.121	<20	0.98	0.064	0.29	2.7	<0.01	2.7	0.4	0.06	4	<0.5	<0.2
B0053776	RC Chip	0.54	0.061	14	12	0.59	130	0.086	<20	0.96	0.042	0.19	2.1	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2
B0053777	RC Chip	0.58	0.062	17	14	0.68	80	0.095	<20	1.04	0.050	0.12	3.5	<0.01	2.6	0.1	0.35	5	<0.5	<0.2
B0053778	RC Chip	0.60	0.057	13	12	0.58	89	0.081	<20	1.03	0.043	0.14	2.4	<0.01	2.1	0.1	0.22	4	<0.5	<0.2
B0053779	RC Chip	0.59	0.069	11	10	0.50	80	0.047	<20	1.09	0.032	0.22	1.8	<0.01	1.5	0.2	0.30	4	<0.5	<0.2
B0053780	RC Chip	1.00	0.064	17	12	0.67	54	0.052	<20	1.20	0.037	0.15	2.1	<0.01	2.2	0.2	0.32	4	<0.5	<0.2



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0053781	RC Chip	2.16	0.046	6.3	45.2	275.6	40	2.3	5.0	17.6	1099	2.64	130.4	8.7	50.2	15.6	28	0.4	1.3	4.7	8	
B0053782	RC Chip	1.97	0.024	2.3	46.3	227.2	23	1.8	2.4	2.8	213	2.46	86.3	8.6	22.5	14.9	88	0.2	1.3	3.7	15	
B0053783	RC Chip	1.52	0.017	1.5	51.8	14.0	39	0.3	4.0	5.2	496	2.38	38.5	12.8	22.2	21.7	126	0.5	1.1	1.1	35	
B0053784	RC Chip	1.22	0.035	1.9	46.3	38.3	33	0.5	3.7	5.8	302	2.03	44.2	7.7	7.8	14.7	278	0.3	0.9	1.8	17	
B0053785	RC Chip	2.24	0.028	2.7	39.1	57.2	24	1.1	2.4	2.9	229	2.82	55.1	9.0	22.9	14.3	58	0.2	1.2	3.5	9	
B0053786	RC Chip	1.73	0.049	1.3	16.7	37.1	32	1.7	3.8	6.4	388	3.11	68.7	10.7	51.5	16.1	26	0.2	1.3	6.8	8	
B0053787	RC Chip	1.71	0.031	0.9	6.5	14.4	20	0.8	3.5	6.9	516	2.28	70.4	7.6	22.9	14.4	23	0.2	0.6	3.8	4	
B0053788	RC Chip	1.70	0.034	4.5	17.0	6.8	23	0.4	3.5	6.5	333	2.43	75.3	6.8	27.5	14.9	36	<0.1	1.1	3.0	15	
B0053789	RC Chip	2.20	0.008	1.9	10.6	8.1	41	0.1	4.6	4.9	515	2.55	13.8	5.3	1.4	14.7	45	0.1	1.6	0.7	41	
B0053790	RC Chip	1.82	0.019	1.7	13.4	5.2	36	0.1	4.3	4.6	557	2.26	18.0	5.3	6.5	15.9	43	<0.1	1.0	1.0	28	
B0053791	RC Chip	1.81	0.034	2.1	20.1	10.9	32	0.5	4.1	7.6	622	2.74	38.6	7.7	20.7	15.8	382	<0.1	0.5	3.3	32	
B0053792	RC Chip	2.18	0.016	2.0	13.0	4.9	33	0.2	4.1	7.0	545	2.33	25.8	6.7	98.4	15.7	57	0.1	0.8	2.8	25	
B0053793	RC Chip	1.58	0.006	2.1	17.0	10.0	38	0.2	4.5	6.0	479	2.48	65.5	6.7	3.1	15.6	119	0.2	2.0	1.1	38	
B0053794	RC Chip	1.87	0.009	2.0	16.5	12.2	43	0.4	4.5	4.5	535	2.52	38.7	5.0	12.0	14.1	47	0.3	2.2	3.6	34	
B0053795	RC Chip	1.95	0.014	2.4	21.3	8.7	49	0.2	4.8	8.4	520	2.53	23.8	4.1	7.8	13.9	33	0.2	4.1	1.7	31	
B0053796	RC Chip	1.87	0.020	2.3	33.3	8.6	42	0.2	4.7	5.6	467	2.57	13.6	5.2	4.1	15.2	69	0.2	2.4	2.7	42	
B0053797	RC Chip	2.24	0.005	2.3	15.9	6.8	38	0.2	4.5	6.1	448	2.46	9.9	5.3	1.1	15.2	70	0.1	1.6	1.6	44	
B0053798	RC Chip	1.90	0.019	2.1	33.0	20.3	51	1.3	4.5	6.0	588	2.62	120.5	4.3	5.0	13.8	39	0.4	3.7	8.8	32	



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0053781	RC Chip	1.33	0.068	13	7	0.30	78	0.002	<20	0.85	0.029	0.25	1.7	<0.01	0.9	0.2	1.24	2	<0.5	0.5
B0053782	RC Chip	1.16	0.066	16	7	0.27	106	0.006	<20	0.88	0.051	0.24	0.9	<0.01	1.4	0.2	1.27	3	<0.5	0.3
B0053783	RC Chip	0.99	0.075	14	10	0.59	164	0.047	<20	1.70	0.044	0.20	0.7	<0.01	2.9	0.3	0.71	5	<0.5	<0.2
B0053784	RC Chip	1.30	0.061	16	6	0.31	189	0.003	<20	1.26	0.033	0.22	0.8	<0.01	1.7	0.3	1.23	3	<0.5	<0.2
B0053785	RC Chip	0.54	0.051	16	6	0.25	171	0.002	<20	0.86	0.062	0.32	1.7	<0.01	0.9	0.2	0.89	3	<0.5	0.3
B0053786	RC Chip	1.19	0.063	12	7	0.16	81	0.001	<20	0.64	0.033	0.26	1.9	<0.01	0.8	0.2	1.93	2	0.5	0.7
B0053787	RC Chip	1.44	0.060	11	4	0.11	77	<0.001	<20	0.52	0.020	0.25	2.1	<0.01	0.6	0.2	1.71	2	<0.5	0.4
B0053788	RC Chip	0.94	0.058	17	8	0.31	101	0.005	<20	0.74	0.042	0.23	2.2	<0.01	1.3	0.2	1.07	3	<0.5	0.3
B0053789	RC Chip	0.84	0.065	18	15	0.72	74	0.074	<20	1.23	0.047	0.14	1.7	<0.01	3.0	0.2	0.20	5	<0.5	<0.2
B0053790	RC Chip	1.13	0.066	15	13	0.59	65	0.018	<20	1.13	0.039	0.16	1.0	<0.01	2.2	0.2	0.25	5	<0.5	<0.2
B0053791	RC Chip	1.65	0.065	21	12	0.60	257	0.005	<20	1.38	0.039	0.21	1.0	<0.01	2.7	0.2	1.07	5	<0.5	0.4
B0053792	RC Chip	1.43	0.062	17	12	0.58	79	0.018	<20	1.10	0.034	0.18	1.3	<0.01	2.0	0.2	0.50	4	<0.5	<0.2
B0053793	RC Chip	0.86	0.064	16	16	0.68	148	0.099	<20	1.22	0.055	0.16	2.5	<0.01	2.9	0.2	0.27	5	<0.5	<0.2
B0053794	RC Chip	1.12	0.061	14	15	0.74	85	0.088	<20	1.36	0.053	0.14	2.1	<0.01	2.3	0.1	0.23	5	<0.5	<0.2
B0053795	RC Chip	0.79	0.063	12	16	0.78	49	0.083	<20	1.32	0.045	0.10	2.4	<0.01	1.9	<0.1	0.31	5	<0.5	<0.2
B0053796	RC Chip	0.71	0.063	18	17	0.73	161	0.126	<20	1.23	0.066	0.22	2.3	<0.01	2.9	0.2	0.09	5	<0.5	<0.2
B0053797	RC Chip	0.68	0.063	20	17	0.67	248	0.138	<20	1.17	0.073	0.33	2.2	<0.01	3.0	0.4	0.07	5	<0.5	<0.2
B0053798	RC Chip	0.93	0.062	11	15	0.78	61	0.086	<20	1.40	0.049	0.12	2.1	<0.01	2.1	0.1	0.20	6	<0.5	<0.2



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Project: Rude Creek
Report Date: January 18, 2021

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QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B695226	RC Chip	2.90	0.145	1.3	79.2	14.6	23	0.4	4.7	8.1	216	2.69	32.6	6.8	106.9	18.1	78	0.2	0.6	15.5	27
REP B695226	QC			1.3	76.9	14.6	22	0.4	4.5	7.8	213	2.68	32.4	6.4	200.0	18.3	75	0.2	0.6	15.0	26
B695259	RC Chip	2.99	0.028	1.9	33.1	12.7	26	0.3	5.8	8.9	321	2.79	60.6	6.2	23.2	15.3	74	0.2	1.4	1.9	32
REP B695259	QC			2.0	31.6	13.5	27	0.3	5.7	8.6	322	2.81	61.2	5.8	15.4	15.0	76	0.3	1.4	1.9	32
REP B695280	QC		0.019																		
B695294	RC Chip	3.36	0.026	1.5	18.5	9.0	35	0.1	4.8	8.0	451	2.51	7.5	4.6	5.0	21.7	95	0.3	0.8	1.2	43
REP B695294	QC			1.7	17.9	8.4	35	0.1	5.1	8.7	442	2.46	7.5	4.4	3.5	21.4	95	0.3	0.8	1.2	42
B695297	RC Chip	3.12	0.006	2.0	13.6	50.0	38	0.3	6.1	6.8	481	2.69	9.6	3.0	4.3	21.0	35	0.3	1.5	0.5	39
REP B695297	QC		0.007																		
B0053775	RC Chip	2.38	<0.005	1.5	11.0	6.2	34	<0.1	4.5	5.1	445	2.44	8.5	3.3	1.0	18.5	27	0.1	1.7	0.2	42
REP B0053775	QC		<0.005																		
B0053780	RC Chip	2.93	0.011	1.5	9.4	8.2	44	0.2	4.6	7.9	661	2.19	24.8	4.0	3.2	15.5	29	0.2	1.5	0.7	30
REP B0053780	QC			1.5	10.0	8.4	44	0.1	4.8	8.0	670	2.22	24.6	4.1	4.5	16.2	30	0.2	1.5	0.7	30
B0053782	RC Chip	1.97	0.024	2.3	46.3	227.2	23	1.8	2.4	2.8	213	2.46	86.3	8.6	22.5	14.9	88	0.2	1.3	3.7	15
REP B0053782	QC		0.027																		
Core Reject Duplicates																					
B695246	RC Chip	3.06	0.008	2.6	10.5	5.1	23	<0.1	4.8	6.6	287	2.49	7.5	5.0	3.8	16.0	42	<0.1	0.8	1.1	42
DUP B695246	QC		0.007	2.6	10.6	4.9	23	<0.1	4.7	6.6	284	2.44	7.4	5.4	2.6	16.3	40	<0.1	0.7	1.1	42
B695280	RC Chip	3.11	0.026	3.2	37.4	36.3	84	0.7	4.3	15.9	510	2.02	23.7	5.9	9.9	14.0	80	2.7	1.1	1.4	23
DUP B695280	QC		0.020	3.2	36.7	35.8	85	0.7	4.3	18.4	504	1.99	23.5	5.8	9.6	14.8	80	3.0	1.2	1.5	23
B695313	RC Chip	3.02	0.121	1.9	9.9	8.9	24	0.1	5.2	11.6	312	3.07	17.7	3.2	49.5	15.7	81	0.1	1.4	2.8	36
DUP B695313	QC		0.103	1.9	11.2	8.0	23	0.1	4.8	9.8	306	3.05	17.5	3.2	25.8	16.1	82	<0.1	1.3	2.9	35
B0053792	RC Chip	2.18	0.016	2.0	13.0	4.9	33	0.2	4.1	7.0	545	2.33	25.8	6.7	98.4	15.7	57	0.1	0.8	2.8	25
DUP B0053792	QC		0.021	2.3	15.0	5.2	35	0.2	4.4	7.4	575	2.39	26.5	6.9	8.6	15.1	58	<0.1	0.8	3.5	26
Reference Materials																					
STD BVGEO01	Standard			10.5	4412.8	189.0	1751	2.7	164.7	25.8	707	3.70	128.3	3.7	228.6	14.8	57	7.4	2.9	26.8	75
STD BVGEO01	Standard			10.5	4444.9	180.3	1738	2.6	166.3	24.3	740	3.69	116.3	3.5	212.4	13.0	53	6.4	2.5	23.6	75
STD DS11	Standard			13.8	144.0	130.0	334	1.8	76.9	13.6	1008	3.06	41.1	2.3	45.3	7.2	61	2.3	7.3	11.1	48



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QUALITY CONTROL REPORT

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
B695226	RC Chip	1.35	0.064	18	10	0.50	62	0.005	<20	0.99	0.035	0.19	1.6	<0.01	2.7	0.3	1.56	5	<0.5	0.6
REP B695226	QC	1.29	0.062	19	10	0.49	61	0.005	<20	0.97	0.034	0.18	1.7	<0.01	2.7	0.3	1.53	5	<0.5	0.6
B695259	RC Chip	0.79	0.077	12	10	0.39	87	0.059	<20	1.20	0.051	0.17	2.7	0.01	2.4	0.2	0.52	4	<0.5	<0.2
REP B695259	QC	0.77	0.074	12	10	0.38	87	0.058	<20	1.18	0.053	0.17	2.8	<0.01	2.4	0.2	0.52	4	<0.5	<0.2
REP B695280	QC																			
B695294	RC Chip	1.41	0.082	23	14	0.69	72	0.060	<20	1.36	0.040	0.16	5.1	<0.01	3.8	0.2	0.40	6	<0.5	0.2
REP B695294	QC	1.37	0.080	23	14	0.67	71	0.058	<20	1.34	0.039	0.16	5.5	<0.01	3.7	0.2	0.39	6	<0.5	0.3
B695297	RC Chip	0.90	0.083	14	15	0.59	74	0.077	<20	1.48	0.043	0.16	1.1	<0.01	3.3	0.2	<0.05	6	<0.5	<0.2
REP B695297	QC																			
B0053775	RC Chip	0.51	0.057	19	14	0.65	202	0.121	<20	0.98	0.064	0.29	2.7	<0.01	2.7	0.4	0.06	4	<0.5	<0.2
REP B0053775	QC																			
B0053780	RC Chip	1.00	0.064	17	12	0.67	54	0.052	<20	1.20	0.037	0.15	2.1	<0.01	2.2	0.2	0.32	4	<0.5	<0.2
REP B0053780	QC	1.03	0.066	17	12	0.68	56	0.051	<20	1.23	0.035	0.15	2.1	<0.01	2.2	0.2	0.32	5	<0.5	<0.2
B0053782	RC Chip	1.16	0.066	16	7	0.27	106	0.006	<20	0.88	0.051	0.24	0.9	<0.01	1.4	0.2	1.27	3	<0.5	0.3
REP B0053782	QC																			
Core Reject Duplicates																				
B695246	RC Chip	0.63	0.057	18	19	0.55	216	0.132	<20	1.00	0.076	0.37	5.6	<0.01	3.0	0.5	0.15	4	<0.5	<0.2
DUP B695246	QC	0.63	0.059	18	18	0.56	216	0.130	<20	0.97	0.066	0.36	5.7	<0.01	2.9	0.5	0.15	4	<0.5	<0.2
B695280	RC Chip	1.00	0.077	21	10	0.30	107	0.012	<20	1.14	0.046	0.27	44.4	<0.01	2.0	0.3	0.27	4	<0.5	<0.2
DUP B695280	QC	1.01	0.082	21	11	0.30	110	0.013	<20	1.15	0.044	0.27	46.7	<0.01	2.0	0.3	0.28	4	<0.5	<0.2
B695313	RC Chip	0.76	0.076	11	15	0.53	86	0.090	<20	1.17	0.056	0.24	10.4	0.01	2.9	0.4	1.07	5	<0.5	<0.2
DUP B695313	QC	0.75	0.076	12	13	0.52	86	0.089	<20	1.15	0.053	0.23	5.9	<0.01	2.7	0.4	1.10	5	<0.5	0.2
B0053792	RC Chip	1.43	0.062	17	12	0.58	79	0.018	<20	1.10	0.034	0.18	1.3	<0.01	2.0	0.2	0.50	4	<0.5	<0.2
DUP B0053792	QC	1.46	0.064	17	13	0.60	85	0.018	<20	1.13	0.036	0.19	1.4	<0.01	2.0	0.2	0.51	4	<0.5	<0.2
Reference Materials																				
STD BVGEO01	Standard	1.31	0.078	28	167	1.33	353	0.233	<20	2.30	0.194	0.90	3.9	0.10	6.3	0.6	0.66	7	4.8	1.2
STD BVGEO01	Standard	1.34	0.071	25	157	1.31	322	0.232	<20	2.24	0.175	0.87	3.9	0.09	5.9	0.6	0.67	7	4.8	1.0
STD DS11	Standard	1.03	0.068	16	58	0.84	383	0.087	<20	1.11	0.068	0.40	2.4	0.26	3.1	4.6	0.27	5	2.2	4.5



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Project: Rude Creek
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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	ppm	
STD DS11	Standard			15.1	141.1	140.3	338	1.6	79.8	14.4	1031	3.15	43.9	2.7	74.9	8.3	67	2.6	7.6	12.4	47	
STD OREAS262	Standard			0.6	115.4	58.3	153	0.5	62.8	27.8	535	3.27	37.2	1.2	66.8	9.5	37	0.7	3.4	1.1	21	
STD OREAS262	Standard			0.6	116.5	56.0	153	0.5	63.7	28.1	560	3.30	36.4	1.2	63.7	8.9	35	0.7	3.0	1.0	21	
STD OREAS262	Standard			0.6	118.5	59.7	157	0.5	65.9	28.4	547	3.40	38.1	1.3	60.7	9.9	38	0.6	3.0	1.1	22	
STD OREAS262	Standard			0.6	115.4	51.6	147	0.5	63.5	27.0	549	3.19	35.2	1.1	58.5	8.0	34	0.6	3.6	0.9	20	
STD OXB130	Standard		0.121																			
STD OXB130	Standard		0.126																			
STD OXB130	Standard		0.120																			
STD OXB130	Standard		0.124																			
STD OXG141	Standard		0.900																			
STD OXG141	Standard		0.929																			
STD OXG141	Standard		0.903																			
STD OXG141	Standard		0.939																			
STD OXN155	Standard		7.483																			
STD OXN155	Standard		7.482																			
STD OXN155	Standard		7.475																			
STD OXN155	Standard		7.793																			
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD BVGE001 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
STD OXG141 Expected			0.93																			
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank		0.006																			
BLK	Blank		<0.005																			



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2
STD DS11	Standard	1.05	0.073	19	59	0.84	418	0.092	<20	1.13	0.075	0.40	2.3	0.24	3.4	4.8	0.28	5	2.5	4.5
STD OREAS262	Standard	2.88	0.041	15	41	1.20	249	0.003	<20	1.17	0.071	0.29	0.2	0.16	3.4	0.4	0.26	4	0.5	0.2
STD OREAS262	Standard	2.97	0.040	16	43	1.19	246	0.003	<20	1.31	0.067	0.32	0.1	0.14	3.2	0.5	0.27	4	<0.5	0.2
STD OREAS262	Standard	3.13	0.043	17	43	1.20	264	0.003	<20	1.26	0.073	0.30	0.1	0.15	3.5	0.5	0.26	4	0.6	0.3
STD OREAS262	Standard	2.96	0.038	13	39	1.16	229	0.003	<20	1.16	0.066	0.28	0.1	0.15	3.0	0.4	0.25	4	<0.5	0.2
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																			
BLK	Blank																			



Bureau Veritas Commodities Canada Ltd.

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Client: **0890763 B.C. Ltd**
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885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: January 18, 2021

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QUALITY CONTROL REPORT

WHI20000519.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
BLK	Blank		0.007																			
BLK	Blank		0.005																			
BLK	Blank		0.006																			
BLK	Blank		0.009																			
BLK	Blank		0.005																			
Prep Wash																						
ROCK-WHI	Prep Blank		<0.005	0.6	2.6	2.5	27	<0.1	1.0	3.6	411	1.77	1.2	0.4	2.2	2.4	21	<0.1	0.1	<0.1	22	
ROCK-WHI	Prep Blank		0.007	0.6	2.3	1.4	24	<0.1	0.9	4.1	400	1.79	1.1	0.4	1.1	2.3	23	<0.1	<0.1	<0.1	22	



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Project: Rude Creek
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QUALITY CONTROL REPORT

WHI20000519.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.58	0.039	7	4	0.43	55	0.075	<20	0.84	0.076	0.08	0.4	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.58	0.037	6	4	0.41	54	0.078	<20	0.86	0.082	0.08	1.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
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Client: **0890763 B.C. Ltd**
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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: January 23, 2021
Report Date: March 05, 2021
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI20000520.2

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 139

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	139	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	139	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	139	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	139	Per sample shipping charges for branch shipments			VAN
AQ370-X	1	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS

Version 2: AQ370-Pb included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
Report Date: March 05, 2021

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CERTIFICATE OF ANALYSIS

WHI20000520.2

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0053805	RC Chip	2.07	0.435	5.3	215.7	817.9	56	52.2	3.5	7.0	535	3.10	119.5	5.8	622.2	15.0	36	1.2	16.0	99.5	16
B0053799	RC Chip	1.54	0.040	1.9	22.1	11.8	33	0.4	3.9	8.8	424	2.01	38.3	5.6	24.9	16.8	25	0.2	2.3	2.6	21
B0053800	RC Chip	1.85	0.054	1.8	45.8	5.7	33	0.7	4.3	10.6	563	2.47	46.9	5.7	16.7	16.3	27	<0.1	1.6	6.6	22
B0053801	RC Chip	2.22	0.005	1.6	16.5	7.7	37	0.2	4.0	3.8	500	2.11	9.9	3.7	1.8	14.8	27	0.1	2.0	1.2	25
B0053802	RC Chip	2.39	0.011	2.2	59.9	13.0	45	0.6	4.7	10.1	507	2.37	20.2	3.5	33.1	16.7	40	0.2	2.3	4.7	32
B0053803	RC Chip	1.83	0.017	2.1	40.0	5.8	40	0.2	4.1	6.2	526	2.31	24.7	5.2	3.8	17.4	54	0.2	1.7	5.0	30
B0053804	RC Chip	1.42	0.019	1.9	157.5	89.3	65	0.8	4.2	8.2	599	2.76	51.9	5.2	53.5	16.0	69	1.5	1.8	3.7	23
B0053806	RC Chip	2.51	0.015	1.8	35.6	39.4	38	1.8	4.6	7.0	607	2.31	30.0	5.5	5.4	17.7	31	0.1	1.4	5.0	23
B0053807	RC Chip	1.11	0.011	1.8	32.2	9.1	26	0.4	3.5	10.8	494	1.85	17.6	4.5	2.0	16.8	23	<0.1	1.5	3.0	20
B0053808	RC Chip	1.59	0.008	1.3	12.5	9.1	40	0.4	4.3	4.0	743	2.39	19.6	5.2	5.5	18.4	44	<0.1	0.7	29.4	20
B0053809	RC Chip	2.56	0.007	2.1	27.4	6.0	33	0.3	4.4	4.3	583	2.14	11.8	4.3	1.7	16.7	47	<0.1	1.0	5.4	23
B0053810	RC Chip	2.14	0.006	2.0	48.1	4.7	35	0.4	4.5	3.9	516	2.29	10.4	3.9	16.8	16.4	40	<0.1	2.1	4.3	28
B0053811	RC Chip	2.51	<0.005	2.1	13.9	10.5	36	0.2	4.0	4.6	432	2.00	10.2	3.9	1.3	14.7	23	0.1	2.5	1.4	26
B0053812	RC Chip	2.26	<0.005	2.0	13.7	14.6	44	0.2	4.1	5.9	473	2.12	10.6	3.3	3.0	14.2	30	0.3	2.7	0.9	29
B0053813	RC Chip	1.98	<0.005	1.8	17.3	10.7	39	0.6	4.0	4.5	481	2.07	7.9	2.6	1.9	15.3	26	<0.1	2.0	4.5	25
B0053814	RC Chip	3.40	<0.005	1.9	11.7	9.9	42	0.3	4.1	3.5	526	2.28	10.8	3.4	1.0	15.9	41	0.3	2.3	2.2	27
B0053815	RC Chip	2.85	0.011	2.9	15.6	9.9	41	0.5	4.0	4.4	553	2.36	9.9	3.1	1.1	15.8	28	0.1	2.1	5.5	27
B0053816	RC Chip	1.99	<0.005	2.4	47.0	14.9	46	0.5	4.4	4.1	496	2.23	26.3	3.7	2.9	15.6	30	0.4	3.7	4.3	25
B0053817	RC Chip	2.29	0.169	2.1	37.0	18.1	44	1.0	4.5	3.4	568	2.47	20.5	3.7	1.6	15.2	29	0.2	2.6	11.3	26
B0053818	RC Chip	2.43	0.006	4.6	13.4	11.9	47	0.2	4.7	5.1	504	2.27	20.1	3.6	1.8	13.9	35	0.3	2.9	1.2	29
B0053819	RC Chip	1.90	0.006	2.2	11.3	7.2	37	<0.1	4.5	4.7	473	2.23	14.9	4.2	<0.5	16.9	34	0.2	3.3	0.2	28
B0053820	RC Chip	2.23	0.005	6.8	18.9	11.3	39	0.2	4.6	5.4	469	2.29	18.4	5.0	2.4	16.9	45	0.2	2.6	0.7	30
B0053821	RC Chip	2.74	0.007	2.1	40.2	13.7	42	0.8	4.7	12.5	494	2.39	22.7	4.7	1.3	16.8	59	0.2	2.0	6.9	32
B0053822	RC Chip	2.28	0.011	2.5	8.8	9.0	41	0.2	4.4	9.4	511	2.39	42.3	3.6	1.9	15.3	30	0.1	2.2	1.0	28
B0053823	RC Chip	2.38	<0.005	3.3	9.1	8.8	40	<0.1	4.5	6.2	489	2.23	12.9	3.9	<0.5	15.7	37	0.1	2.8	0.4	28
B0053824	RC Chip	2.34	0.012	9.7	47.0	13.2	35	0.4	4.5	9.9	376	2.10	23.2	5.3	8.1	16.2	56	0.2	3.4	0.7	27
B0053825	RC Chip	3.26	0.030	17.8	14.9	19.9	31	0.6	4.8	17.3	333	2.23	56.9	7.4	22.6	15.8	40	0.2	2.4	1.5	25
B0053826	RC Chip	2.91	<0.005	3.5	7.8	8.7	35	<0.1	4.2	5.3	411	2.12	12.8	4.2	0.8	15.2	62	<0.1	3.1	0.2	26
B0053827	RC Chip	4.01	<0.005	3.3	3.1	10.0	47	<0.1	4.8	4.1	494	2.33	10.4	4.3	<0.5	13.9	56	0.1	3.0	0.2	32
B0053828	RC Chip	1.97	0.006	2.6	2.5	10.0	43	<0.1	4.5	6.1	426	2.09	11.5	3.7	<0.5	12.9	56	0.1	2.8	0.2	29



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Project: Rude Creek
Report Date: March 05, 2021

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CERTIFICATE OF ANALYSIS

WHI20000520.2

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01	
B0053805	RC Chip	1.26	0.070	18	11	0.42	115	0.004	<20	1.06	0.022	0.32	1.2	<0.01	1.6	0.3	0.76	4	<0.5	0.6	
B0053799	RC Chip	0.97	0.068	13	12	0.43	79	0.061	<20	1.04	0.039	0.24	1.9	<0.01	1.9	0.3	0.30	4	<0.5	0.3	
B0053800	RC Chip	1.18	0.070	18	13	0.53	69	0.013	<20	1.14	0.028	0.22	1.0	<0.01	2.1	0.2	0.37	5	<0.5	<0.2	
B0053801	RC Chip	0.91	0.064	12	13	0.58	63	0.062	<20	1.18	0.048	0.17	1.3	<0.01	2.1	0.2	0.07	5	<0.5	<0.2	
B0053802	RC Chip	0.98	0.067	20	17	0.63	53	0.055	<20	1.15	0.037	0.12	1.7	<0.01	2.6	0.1	0.19	4	<0.5	<0.2	
B0053803	RC Chip	1.10	0.071	20	16	0.59	73	0.019	<20	1.16	0.040	0.18	1.0	<0.01	2.7	0.2	0.17	4	<0.5	<0.2	
B0053804	RC Chip	1.16	0.064	18	12	0.63	96	0.006	<20	1.44	0.024	0.25	1.1	<0.01	2.1	0.3	0.40	5	<0.5	<0.2	
B0053806	RC Chip	1.46	0.071	19	13	0.55	89	0.006	<20	1.27	0.032	0.28	1.2	<0.01	2.2	0.3	0.32	4	<0.5	<0.2	
B0053807	RC Chip	0.95	0.058	13	13	0.43	65	0.035	<20	1.08	0.038	0.20	1.0	<0.01	1.9	0.3	0.09	4	<0.5	<0.2	
B0053808	RC Chip	2.12	0.082	25	12	0.60	90	0.004	<20	1.37	0.020	0.32	0.9	<0.01	1.9	0.4	0.15	5	<0.5	<0.2	
B0053809	RC Chip	1.55	0.073	19	14	0.52	80	0.013	<20	1.20	0.026	0.24	1.7	<0.01	2.0	0.3	0.11	4	<0.5	<0.2	
B0053810	RC Chip	1.22	0.072	16	16	0.55	66	0.071	<20	1.19	0.036	0.19	2.7	<0.01	2.4	0.2	0.10	5	<0.5	<0.2	
B0053811	RC Chip	0.90	0.066	13	15	0.48	60	0.071	<20	1.04	0.038	0.17	2.2	<0.01	2.0	0.2	0.07	4	<0.5	<0.2	
B0053812	RC Chip	0.93	0.070	11	16	0.55	63	0.075	<20	1.16	0.042	0.16	2.2	0.01	2.3	0.2	0.06	5	<0.5	<0.2	
B0053813	RC Chip	0.97	0.068	10	15	0.55	68	0.078	<20	1.22	0.041	0.17	1.4	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2	
B0053814	RC Chip	0.92	0.070	11	15	0.62	81	0.086	<20	1.33	0.044	0.20	1.7	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2	
B0053815	RC Chip	1.04	0.075	10	16	0.68	60	0.082	<20	1.38	0.040	0.17	1.8	<0.01	2.4	0.3	0.07	6	<0.5	<0.2	
B0053816	RC Chip	0.82	0.073	10	17	0.58	75	0.077	<20	1.22	0.035	0.19	3.7	<0.01	2.0	0.2	0.05	5	<0.5	<0.2	
B0053817	RC Chip	0.94	0.067	11	16	0.70	63	0.079	<20	1.37	0.040	0.17	1.8	<0.01	2.2	0.2	0.07	5	<0.5	<0.2	
B0053818	RC Chip	0.84	0.077	13	16	0.62	70	0.086	<20	1.32	0.046	0.17	2.2	<0.01	2.2	0.2	0.06	5	<0.5	<0.2	
B0053819	RC Chip	0.69	0.072	13	16	0.61	72	0.086	<20	1.30	0.047	0.16	1.6	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2	
B0053820	RC Chip	0.78	0.066	11	18	0.61	48	0.089	<20	1.23	0.043	0.11	2.2	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2	
B0053821	RC Chip	0.78	0.065	14	16	0.70	46	0.092	<20	1.27	0.045	0.11	1.9	<0.01	2.2	0.2	0.22	5	<0.5	<0.2	
B0053822	RC Chip	0.76	0.069	11	16	0.73	40	0.081	<20	1.27	0.045	0.11	2.2	<0.01	2.2	0.2	0.10	5	<0.5	<0.2	
B0053823	RC Chip	0.85	0.075	12	18	0.70	49	0.092	<20	1.30	0.048	0.14	2.3	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2	
B0053824	RC Chip	0.67	0.078	12	14	0.61	91	0.088	<20	1.44	0.080	0.30	2.2	<0.01	2.6	0.4	0.18	5	<0.5	<0.2	
B0053825	RC Chip	0.66	0.069	13	13	0.53	80	0.080	<20	1.27	0.076	0.24	2.8	<0.01	2.2	0.4	0.55	4	<0.5	<0.2	
B0053826	RC Chip	0.82	0.076	11	16	0.58	68	0.087	<20	1.40	0.072	0.22	2.3	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2	
B0053827	RC Chip	0.94	0.072	12	17	0.72	52	0.097	<20	1.43	0.055	0.16	2.7	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2	
B0053828	RC Chip	0.82	0.072	11	17	0.61	57	0.100	<20	1.24	0.052	0.17	2.2	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	



Bureau Veritas Commodities Canada Ltd.

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Project: Rude Creek
Report Date: March 05, 2021

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CERTIFICATE OF ANALYSIS

WHI20000520.2

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0053829	RC Chip	1.91	<0.005	3.1	3.1	9.0	43	<0.1	4.6	3.6	514	2.47	8.3	4.2	<0.5	20.9	33	0.1	3.1	0.2	30	
B0053830	RC Chip	1.82	<0.005	3.3	12.6	9.2	36	0.1	4.4	3.9	402	2.32	10.4	4.6	<0.5	16.1	34	<0.1	2.4	0.4	30	
B0053831	RC Chip	1.80	<0.005	2.9	13.5	7.4	43	0.1	4.3	3.8	432	2.51	10.6	3.8	0.7	15.4	33	0.1	2.5	0.6	34	
B0053832	RC Chip	2.55	0.005	2.1	16.7	7.4	41	0.2	4.5	3.7	434	2.51	10.7	3.2	<0.5	16.0	32	0.2	2.6	3.4	35	
B0053833	RC Chip	2.11	0.051	2.7	251.8	18.0	46	1.1	4.7	3.2	452	2.70	11.3	3.5	20.9	17.0	31	0.2	1.9	17.9	34	
B0053834	RC Chip	2.47	0.010	2.1	28.5	6.6	46	0.2	4.2	3.1	466	2.46	5.8	4.4	2.2	16.2	29	0.1	1.4	4.5	32	
B0053835	RC Chip	1.74	<0.005	2.2	33.3	13.3	51	1.2	4.9	2.2	636	3.10	4.6	4.5	<0.5	14.7	22	0.2	1.7	13.5	35	
B0053836	RC Chip	1.77	<0.005	1.5	4.6	4.0	48	<0.1	4.5	2.1	602	2.72	4.3	2.9	1.1	15.6	35	<0.1	1.1	0.8	33	
B0053837	RC Chip	1.61	0.013	1.6	84.7	7.9	50	0.3	4.3	7.0	514	2.88	9.2	3.5	1.1	16.1	32	0.1	1.0	10.8	38	
B0053838	RC Chip	1.53	0.007	2.4	12.3	7.9	50	0.2	4.8	6.4	435	3.20	17.6	4.3	2.5	19.4	36	<0.1	1.2	3.5	45	
B0053839	RC Chip	1.22	0.074	3.5	111.5	11.3	51	0.7	3.7	11.1	544	2.94	31.9	4.7	48.2	14.8	39	0.2	1.8	15.9	30	
B0053840	RC Chip	1.67	0.016	2.5	5.1	9.0	42	0.1	3.0	2.9	567	2.15	7.7	4.6	2.8	18.8	46	<0.1	0.6	1.8	16	
B0053841	RC Chip	1.71	2.132	2.6	208.2	71.4	40	1.0	3.0	3.0	556	2.08	16.3	6.0	471.7	20.7	43	0.2	9.3	56.0	15	
B0053842	RC Chip	1.51	0.038	2.1	11.9	38.2	37	0.5	3.2	3.2	630	2.02	11.0	4.0	63.4	19.5	39	0.1	0.9	5.2	13	
B0053843	RC Chip	1.51	0.009	1.0	7.0	10.4	38	0.2	2.9	2.5	638	1.77	5.9	5.1	6.3	16.9	51	<0.1	0.5	1.2	10	
B0053844	RC Chip	1.63	0.008	2.2	15.0	12.1	43	0.1	3.3	2.2	622	1.99	5.9	6.9	6.1	21.4	55	0.1	0.9	0.8	11	
B0053845	RC Chip	1.48	0.025	2.3	6.9	16.8	42	0.2	3.3	4.3	590	1.98	10.4	4.3	6.6	20.8	48	0.1	1.0	1.0	12	
B0053846	RC Chip	1.59	0.010	1.9	2.7	10.1	39	0.1	3.1	3.5	564	1.95	5.7	4.7	3.0	20.8	48	<0.1	0.4	0.6	12	
B0053847	RC Chip	1.50	0.013	1.2	34.8	12.4	42	0.1	3.0	1.7	618	2.03	5.7	2.8	2.4	22.4	42	<0.1	0.5	0.6	12	
B0053848	RC Chip	1.62	0.028	1.3	82.5	19.4	43	0.5	3.5	5.1	649	2.37	18.9	4.4	15.0	21.3	39	0.1	1.3	2.5	10	
B0053849	RC Chip	1.72	0.068	1.7	102.2	17.3	39	0.7	3.0	4.7	596	2.16	16.2	4.4	17.9	21.0	38	0.1	1.8	4.0	12	
B0053850	RC Chip	1.86	0.007	7.2	8.2	8.6	39	<0.1	2.9	2.1	545	1.91	4.2	7.9	2.4	21.5	53	<0.1	0.5	0.6	13	
B0053993	RC Chip	1.83	0.468	4.3	22.2	1399.1	19	8.6	4.4	3.0	180	2.80	194.4	5.2	1132.4	16.7	95	0.2	15.2	10.8	30	
B0053994	RC Chip	1.99	0.307	6.5	27.6	1542.0	25	6.4	4.2	3.0	191	3.13	224.9	4.6	95.1	15.6	86	0.3	12.1	10.1	26	
B0053995	RC Chip	2.60	0.057	1.7	38.4	402.3	36	2.0	3.9	4.3	150	2.86	168.4	3.7	43.8	19.5	22	0.2	2.7	4.1	12	
B0053996	RC Chip	2.97	0.043	1.9	27.3	140.5	29	1.3	2.2	3.1	91	2.71	224.3	2.3	39.3	13.8	16	0.2	1.9	3.2	9	
B0053997	RC Chip	2.97	0.061	20.2	22.6	366.8	29	2.5	2.3	3.1	79	2.40	204.6	1.3	44.7	15.5	15	0.3	2.2	5.6	7	
B0053998	RC Chip	3.37	0.177	9.3	22.3	2343.8	9	9.6	1.7	1.6	47	2.47	335.8	1.2	172.3	19.7	10	0.3	14.2	17.2	5	
B0053999	RC Chip	1.12	0.188	2.4	41.1	378.1	9	3.3	1.7	3.9	37	2.26	188.8	0.6	663.5	7.4	3	0.3	2.5	10.7	4	
B0054000	RC Chip	1.56	1.055	2.8	247.7	629.9	51	7.0	4.2	21.2	48	7.51	644.2	1.6	946.9	13.5	3	1.9	6.5	18.9	5	



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01		
B0053829	RC Chip	0.90	0.073	11	17	0.74	44	0.094	<20	1.33	0.042	0.14	2.2	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2	
B0053830	RC Chip	0.76	0.072	11	18	0.55	52	0.091	<20	1.13	0.052	0.17	2.3	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2	
B0053831	RC Chip	0.78	0.066	12	20	0.68	49	0.111	<20	1.23	0.055	0.20	2.4	<0.01	2.3	0.4	<0.05	5	<0.5	<0.2	
B0053832	RC Chip	0.81	0.068	13	17	0.70	52	0.122	<20	1.26	0.056	0.22	1.9	<0.01	2.5	0.4	0.08	5	<0.5	<0.2	
B0053833	RC Chip	0.78	0.066	13	20	0.68	38	0.099	<20	1.23	0.045	0.16	2.7	<0.01	2.3	0.3	0.10	5	<0.5	<0.2	
B0053834	RC Chip	0.82	0.065	11	15	0.71	45	0.094	<20	1.29	0.046	0.18	2.2	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2	
B0053835	RC Chip	0.86	0.061	10	16	0.93	35	0.092	<20	1.61	0.049	0.17	2.4	<0.01	2.6	0.3	0.05	7	<0.5	<0.2	
B0053836	RC Chip	0.99	0.064	10	13	0.86	54	0.071	<20	1.58	0.039	0.19	1.2	<0.01	2.3	0.3	<0.05	6	<0.5	<0.2	
B0053837	RC Chip	0.92	0.063	11	13	0.78	61	0.089	<20	1.37	0.044	0.19	2.0	<0.01	2.5	0.3	0.18	6	<0.5	<0.2	
B0053838	RC Chip	0.68	0.065	16	18	0.71	60	0.102	<20	1.18	0.052	0.23	2.9	<0.01	3.1	0.4	0.25	5	<0.5	<0.2	
B0053839	RC Chip	1.33	0.087	17	12	0.62	53	0.040	<20	1.27	0.037	0.26	1.7	<0.01	2.2	0.3	0.50	7	<0.5	<0.2	
B0053840	RC Chip	1.47	0.074	25	10	0.45	71	0.006	<20	1.10	0.033	0.27	0.5	<0.01	1.4	0.3	0.13	7	<0.5	<0.2	
B0053841	RC Chip	1.50	0.066	21	11	0.41	69	0.004	<20	1.00	0.033	0.25	0.8	<0.01	1.4	0.3	0.38	6	<0.5	<0.2	
B0053842	RC Chip	1.28	0.067	24	10	0.37	69	0.003	<20	0.99	0.030	0.25	0.8	<0.01	1.2	0.3	0.17	5	<0.5	<0.2	
B0053843	RC Chip	1.74	0.067	26	7	0.36	53	0.003	<20	1.03	0.025	0.28	0.4	<0.01	1.0	0.3	0.09	4	<0.5	<0.2	
B0053844	RC Chip	1.68	0.066	26	9	0.41	54	0.003	<20	1.10	0.025	0.27	0.7	<0.01	1.1	0.3	0.11	5	<0.5	<0.2	
B0053845	RC Chip	1.34	0.069	29	10	0.41	59	0.003	<20	1.05	0.026	0.26	0.7	<0.01	1.2	0.3	<0.05	5	<0.5	<0.2	
B0053846	RC Chip	1.41	0.066	27	8	0.40	56	0.004	<20	0.99	0.031	0.25	0.5	<0.01	1.1	0.3	0.12	5	<0.5	<0.2	
B0053847	RC Chip	1.25	0.070	32	8	0.42	64	0.004	<20	1.09	0.030	0.28	0.3	<0.01	1.2	0.3	<0.05	6	<0.5	<0.2	
B0053848	RC Chip	1.29	0.068	22	8	0.41	50	0.003	<20	1.05	0.027	0.27	0.7	<0.01	1.1	0.3	0.18	5	<0.5	<0.2	
B0053849	RC Chip	1.15	0.064	24	9	0.39	57	0.003	<20	0.99	0.024	0.26	0.8	<0.01	1.0	0.3	0.13	5	<0.5	<0.2	
B0053850	RC Chip	1.51	0.069	28	8	0.42	65	0.003	<20	1.02	0.032	0.25	0.7	<0.01	1.3	0.3	0.15	6	<0.5	<0.2	
B0053993	RC Chip	0.19	0.068	15	10	0.18	256	0.019	<20	0.86	0.031	0.48	0.6	0.01	1.7	0.4	0.66	3	<0.5	0.6	
B0053994	RC Chip	0.18	0.079	17	9	0.19	240	0.016	<20	0.89	0.037	0.47	0.6	0.02	2.0	0.4	0.64	4	<0.5	0.6	
B0053995	RC Chip	0.05	0.062	18	5	0.09	132	0.003	<20	0.63	0.040	0.37	0.8	<0.01	2.1	0.3	0.49	3	<0.5	0.3	
B0053996	RC Chip	0.03	0.053	19	3	0.04	141	0.002	<20	0.54	0.109	0.40	0.8	0.01	1.1	0.4	0.70	5	<0.5	0.3	
B0053997	RC Chip	0.04	0.040	17	4	0.03	175	0.002	<20	0.48	0.042	0.47	1.0	<0.01	0.9	0.4	0.69	3	<0.5	0.9	
B0053998	RC Chip	0.02	0.067	11	4	0.03	176	0.004	<20	0.42	0.014	0.53	1.2	<0.01	0.9	0.5	1.11	2	1.2	1.0	
B0053999	RC Chip	0.02	0.015	9	3	0.03	173	0.003	<20	0.47	0.009	0.51	1.8	<0.01	0.7	0.4	1.21	2	0.5	0.3	
B0054000	RC Chip	0.02	0.021	4	4	0.04	76	0.002	<20	0.71	0.010	0.42	1.6	<0.01	1.3	0.3	8.23	2	6.0	1.1	



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B695329	Rock DUP	1.158	2.3	241.2	650.4	51	7.1	4.3	21.0	48	7.76	656.5	1.7	499.5	13.1	3	1.9	7.5	19.7	5	
B0054001	RC Chip	1.59	3.151	8.4	680.7	>10000	64	76.4	2.1	8.9	45	5.56	659.5	6.6	2362.1	18.3	8	4.5	644.9	25.8	6
B0054002	RC Chip	2.13	0.127	38.7	136.1	7408.5	18	16.5	1.8	2.2	63	2.02	1498.9	5.4	50.0	14.2	14	0.9	19.1	6.2	7
B0054003	RC Chip	0.71	0.022	19.7	62.9	621.7	46	1.7	3.8	6.3	466	2.27	133.0	7.4	10.3	17.1	19	0.6	4.3	4.0	17
B0054004	RC Chip	1.74	0.026	2.9	39.9	164.1	52	0.8	4.0	5.4	554	2.31	61.9	4.5	15.3	16.8	34	0.3	3.0	3.0	25
B0054005	RC Chip	2.01	0.047	7.6	65.1	151.4	62	1.0	3.8	5.7	352	2.40	88.6	11.6	13.3	19.8	32	1.4	2.5	3.1	15
B0054006	RC Chip	1.85	0.080	1.4	27.6	57.9	76	0.8	4.6	8.5	518	3.19	44.2	16.1	109.0	18.7	13	1.9	1.6	4.0	5
B0054007	RC Chip	2.02	0.028	2.4	6.2	41.4	31	0.4	4.4	6.2	482	2.89	92.9	5.3	35.4	16.1	29	0.1	0.8	4.5	13
B0054008	RC Chip	1.86	0.037	28.4	9.5	50.6	31	0.5	3.9	7.1	496	2.85	103.2	6.7	101.3	15.8	30	0.2	1.1	5.3	11
B0054009	RC Chip	2.02	0.048	6.6	10.4	73.2	31	0.8	3.5	4.0	481	2.42	77.9	5.8	32.8	16.8	29	0.1	1.7	3.5	12
B0054010	RC Chip	1.77	0.045	2.1	10.5	106.7	20	0.7	3.3	10.0	339	2.23	189.4	7.1	27.8	16.2	24	0.2	3.5	3.6	9
B0054011	RC Chip	2.02	0.026	1.4	19.1	22.9	31	0.3	4.2	7.6	450	2.32	130.3	9.4	21.0	23.1	26	0.2	1.2	2.3	14
B0054012	RC Chip	1.94	0.093	4.8	30.5	24.9	24	0.5	7.5	15.8	349	2.96	321.8	12.7	86.8	17.3	17	0.3	1.5	3.1	9
B0054013	RC Chip	2.42	0.155	5.2	58.7	24.8	19	0.5	6.1	6.4	307	1.98	111.7	10.6	42.8	18.7	14	0.1	4.0	5.2	7
B0054014	RC Chip	2.06	0.031	1.2	14.5	17.3	18	0.3	3.4	6.0	424	1.77	57.9	4.5	11.5	20.2	18	<0.1	0.9	2.8	10
B0054015	RC Chip	1.89	0.027	2.6	14.6	16.4	26	0.3	4.6	8.4	467	2.60	113.2	8.9	20.4	21.4	33	<0.1	1.3	3.9	18
B0054016	RC Chip	2.07	0.029	2.8	21.1	18.9	31	0.2	4.1	5.1	481	2.30	53.0	3.5	9.6	18.1	19	<0.1	2.6	0.5	26
B0054017	RC Chip	2.25	0.008	1.6	6.0	17.0	30	0.1	4.2	4.5	512	2.44	119.2	3.0	6.8	16.8	43	0.1	3.5	0.4	32
B0054018	RC Chip	2.37	0.005	1.1	8.8	20.2	33	0.2	4.0	6.3	459	2.33	131.3	2.9	0.9	17.0	44	0.1	3.7	0.3	34
B0054019	RC Chip	2.31	0.016	2.5	16.7	250.7	32	0.9	3.7	7.0	447	2.41	114.0	4.1	7.5	17.5	21	0.2	6.7	0.7	31
B0054020	RC Chip	2.92	0.010	2.4	12.3	13.5	31	0.1	3.3	5.3	431	2.25	52.2	2.9	0.9	15.3	72	0.2	2.7	0.2	33
B0054021	RC Chip	2.46	0.006	1.4	12.7	12.8	37	0.1	4.0	5.9	433	2.29	26.5	2.9	1.2	16.5	43	0.1	2.1	0.5	37
B0054022	RC Chip	2.41	0.041	1.6	93.0	24.1	35	1.2	3.6	4.7	628	2.29	31.6	4.8	15.2	17.9	25	0.1	4.1	4.9	27
B0054023	RC Chip	3.27	0.023	13.1	16.6	23.0	27	0.4	4.4	11.1	470	2.51	45.3	5.6	21.0	18.1	30	0.1	1.5	1.4	27
B0054024	RC Chip	2.23	0.015	1.5	16.7	14.8	35	0.1	3.8	3.6	683	2.30	17.6	6.4	5.9	19.4	30	<0.1	1.3	0.5	30
B0054025	RC Chip	2.12	0.028	16.6	23.8	11.1	29	0.3	5.1	8.2	469	1.96	40.2	7.9	7.5	17.7	23	0.1	1.2	2.3	19
B0054026	RC Chip	2.32	0.197	1.7	83.2	120.6	57	4.1	4.6	9.3	630	3.30	138.5	4.1	62.0	17.9	26	1.0	4.4	15.6	19
B0054027	RC Chip	2.75	0.359	2.6	16.3	192.8	26	7.5	4.9	14.3	532	3.77	156.5	6.2	642.0	16.8	25	0.4	1.1	54.1	11
B0054028	RC Chip	2.11	0.050	1.9	26.2	150.1	28	1.8	3.5	7.1	625	2.50	57.6	4.5	21.5	15.8	28	0.1	1.5	7.7	22
B0054029	RC Chip	1.82	0.099	1.5	7.4	26.0	27	0.8	3.8	5.7	523	2.58	24.1	5.1	18.4	16.4	36	<0.1	0.6	10.5	26



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Project: Rude Creek
Report Date: March 05, 2021

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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01		
B695329	Rock DUP	0.02	0.020	4	4	0.04	97	0.002	<20	0.70	0.009	0.42	1.6	<0.01	1.4	0.3	8.34	2	6.8	1.2	
B0054001	RC Chip	0.04	0.094	5	3	0.04	129	0.002	<20	0.57	0.012	0.54	0.5	0.04	0.8	0.4	4.61	2	3.5	1.3	1.39
B0054002	RC Chip	0.08	0.069	15	3	0.06	108	0.001	<20	0.58	0.016	0.36	0.8	<0.01	0.8	0.3	0.97	2	<0.5	0.6	
B0054003	RC Chip	0.64	0.064	18	7	0.42	63	0.004	<20	1.01	0.029	0.22	1.3	<0.01	1.7	0.2	0.43	3	<0.5	<0.2	
B0054004	RC Chip	0.96	0.076	19	8	0.45	85	0.007	<20	1.09	0.038	0.21	0.9	<0.01	2.0	0.2	0.20	4	<0.5	<0.2	
B0054005	RC Chip	0.57	0.076	18	6	0.26	94	0.003	<20	1.03	0.046	0.28	0.8	<0.01	1.5	0.2	0.58	3	<0.5	<0.2	
B0054006	RC Chip	0.98	0.048	10	4	0.16	74	0.001	<20	0.86	0.013	0.30	1.7	<0.01	1.0	0.2	2.02	2	0.5	0.3	
B0054007	RC Chip	1.55	0.074	16	6	0.38	89	0.003	<20	1.03	0.022	0.30	3.0	<0.01	1.7	0.3	1.19	3	<0.5	0.9	
B0054008	RC Chip	1.60	0.070	15	6	0.42	80	0.003	<20	0.99	0.017	0.26	2.1	<0.01	1.2	0.3	1.39	3	<0.5	1.1	
B0054009	RC Chip	1.53	0.076	15	7	0.44	82	0.003	<20	1.01	0.019	0.27	2.2	<0.01	1.3	0.2	0.77	3	<0.5	0.7	
B0054010	RC Chip	1.09	0.068	16	5	0.27	99	0.002	<20	0.77	0.020	0.27	2.1	<0.01	1.1	0.3	1.26	2	<0.5	0.3	
B0054011	RC Chip	0.98	0.071	16	5	0.35	87	0.004	<20	0.89	0.020	0.24	1.4	<0.01	1.3	0.2	0.80	3	<0.5	<0.2	
B0054012	RC Chip	0.55	0.061	14	5	0.30	85	0.002	<20	0.83	0.016	0.23	1.9	<0.01	1.1	0.2	1.77	2	<0.5	<0.2	
B0054013	RC Chip	0.89	0.074	14	4	0.25	89	0.002	<20	0.77	0.014	0.26	1.5	<0.01	1.1	0.2	0.80	2	<0.5	<0.2	
B0054014	RC Chip	1.10	0.072	17	5	0.28	91	0.003	<20	0.77	0.021	0.25	1.2	<0.01	1.1	0.2	0.47	2	<0.5	<0.2	
B0054015	RC Chip	0.91	0.077	16	7	0.43	98	0.009	<20	1.06	0.025	0.26	3.2	<0.01	1.8	0.2	0.76	4	<0.5	0.2	
B0054016	RC Chip	0.78	0.074	12	8	0.53	86	0.072	<20	1.13	0.033	0.18	2.9	<0.01	1.8	0.2	0.16	4	<0.5	<0.2	
B0054017	RC Chip	0.62	0.068	9	9	0.63	65	0.086	<20	1.24	0.042	0.13	2.2	<0.01	2.2	0.1	0.12	5	<0.5	<0.2	
B0054018	RC Chip	0.63	0.067	11	9	0.58	54	0.081	<20	1.20	0.045	0.11	2.2	<0.01	2.4	<0.1	0.13	5	<0.5	<0.2	
B0054019	RC Chip	0.73	0.066	13	10	0.54	71	0.065	<20	1.16	0.036	0.18	2.0	<0.01	2.5	0.1	0.23	5	<0.5	<0.2	
B0054020	RC Chip	0.63	0.064	11	10	0.57	70	0.082	<20	1.15	0.046	0.11	3.0	<0.01	2.5	0.1	0.12	5	<0.5	<0.2	
B0054021	RC Chip	0.80	0.070	12	10	0.57	59	0.094	<20	1.15	0.046	0.12	2.0	<0.01	2.6	0.1	0.12	5	<0.5	<0.2	
B0054022	RC Chip	1.72	0.068	18	8	0.45	64	0.006	<20	1.08	0.024	0.23	1.0	<0.01	2.4	0.2	0.20	5	<0.5	<0.2	
B0054023	RC Chip	0.97	0.069	19	9	0.44	131	0.041	<20	0.94	0.030	0.23	1.0	<0.01	2.7	0.3	0.50	4	<0.5	<0.2	
B0054024	RC Chip	1.53	0.065	23	9	0.46	67	0.021	<20	1.06	0.025	0.21	0.7	<0.01	2.4	0.2	0.09	4	<0.5	<0.2	
B0054025	RC Chip	1.08	0.071	18	8	0.35	84	0.009	<20	0.93	0.029	0.23	3.0	<0.01	1.7	0.2	0.32	3	<0.5	<0.2	
B0054026	RC Chip	1.53	0.072	13	8	0.41	83	0.009	<20	1.01	0.021	0.27	6.3	0.01	1.8	0.3	1.81	4	<0.5	0.6	
B0054027	RC Chip	1.55	0.066	10	6	0.28	61	0.002	<20	0.82	0.018	0.25	1.9	<0.01	1.4	0.3	3.20	3	<0.5	1.8	
B0054028	RC Chip	1.73	0.066	14	8	0.37	55	0.017	<20	0.93	0.024	0.23	1.1	<0.01	1.9	0.2	0.96	4	<0.5	0.4	
B0054029	RC Chip	1.47	0.064	15	9	0.48	72	0.004	<20	0.97	0.028	0.22	1.7	<0.01	2.1	0.2	1.10	4	<0.5	1.0	



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B0054030	RC Chip	1.75	0.071	3.5	41.8	234.7	33	1.4	3.8	8.0	459	2.57	77.4	4.4	37.4	18.6	28	0.3	4.7	7.7	28
B0054031	RC Chip	1.88	0.019	1.6	13.8	19.4	36	0.2	4.1	6.9	466	2.53	52.0	2.9	3.9	14.9	63	0.2	2.0	0.9	38
B0054032	RC Chip	2.22	0.016	1.9	15.3	91.5	35	0.5	3.9	6.2	460	2.50	72.3	3.1	26.1	14.7	53	0.2	3.0	1.2	34
B0054033	RC Chip	2.28	0.085	7.2	19.0	20.7	28	0.3	4.4	8.8	448	2.61	52.6	4.6	13.8	16.6	40	0.1	1.9	1.9	31
B0054034	RC Chip	1.94	0.039	30.9	30.4	15.4	44	0.3	4.6	11.1	471	2.67	32.6	3.3	8.9	17.2	56	0.2	1.7	1.5	40
B0054035	RC Chip	2.72	0.117	4.8	53.7	8.6	46	0.4	5.1	8.3	600	3.29	36.5	7.7	26.4	15.3	31	<0.1	1.8	6.3	40
B0054036	RC Chip	2.07	0.064	4.8	58.1	8.6	39	0.5	4.8	8.2	504	3.10	25.5	5.5	35.9	16.7	50	<0.1	1.0	10.7	47
B0054037	RC Chip	2.25	0.097	7.1	158.6	11.4	37	1.0	4.6	9.7	435	2.78	23.5	5.7	143.6	18.5	56	0.1	0.9	21.5	49
B0054038	RC Chip	2.51	0.169	2.1	189.6	13.9	45	1.2	4.7	7.1	440	2.77	22.8	4.8	18.2	18.4	42	0.1	1.2	24.0	48
B0054039	RC Chip	1.59	0.039	3.6	80.6	10.5	40	0.4	4.5	9.4	404	2.56	21.8	4.1	91.4	15.8	45	0.1	1.2	5.6	44
B0054040	RC Chip	2.26	<0.005	1.8	32.5	10.4	38	0.2	4.6	4.6	429	2.67	10.2	3.7	2.1	16.4	54	<0.1	1.1	1.2	47
B0054041	RC Chip	2.51	0.010	1.9	30.4	12.3	39	0.2	4.4	7.3	415	2.49	26.8	4.3	3.5	17.3	52	0.2	1.0	1.9	42
B0054042	RC Chip	1.93	0.053	1.8	29.6	9.8	35	0.3	4.2	7.1	392	2.32	17.9	3.0	2.2	15.3	47	0.2	1.5	1.8	37
B0054043	RC Chip	2.67	0.025	1.7	38.1	13.1	42	0.5	3.8	6.6	462	2.46	15.4	3.5	2.4	15.7	34	0.1	1.3	8.8	36
B0054044	RC Chip	1.42	0.018	1.5	23.2	9.0	44	0.2	4.0	4.9	540	2.49	12.5	2.8	30.8	13.4	25	<0.1	1.6	2.1	30
B0054045	RC Chip	1.70	1.086	5.2	45.7	112.9	44	7.8	5.0	14.5	647	3.61	48.3	6.6	4648.0	14.0	24	0.2	1.9	44.1	32
B0054046	RC Chip	1.72	0.136	2.3	18.9	113.9	41	6.2	4.0	13.1	620	3.13	47.6	6.3	86.4	15.3	33	0.2	1.3	31.5	33
B0054047	RC Chip	2.02	0.046	1.6	88.6	20.2	42	0.9	4.1	6.2	430	2.37	15.9	3.6	6.8	16.0	53	0.3	2.0	15.9	33
B0054048	RC Chip	1.92	0.013	2.3	61.4	17.0	41	0.8	5.0	7.6	503	3.02	19.0	5.5	3.3	16.2	47	0.1	1.3	9.2	42
B0054049	RC Chip	1.69	<0.005	5.9	22.7	10.2	32	0.3	4.7	8.9	430	2.60	10.9	4.4	<0.5	16.7	40	0.1	0.9	1.9	43
B0054050	RC Chip	1.70	0.007	2.5	12.5	14.0	40	0.3	4.9	19.0	496	2.60	26.0	3.3	4.8	16.1	38	0.2	1.4	1.4	37
B0054051	RC Chip	1.80	<0.005	1.8	7.8	8.6	34	<0.1	4.8	6.5	435	2.53	10.7	3.3	0.7	16.4	34	0.1	1.3	0.2	42
B0054052	RC Chip	1.20	0.012	2.1	13.0	17.1	44	0.2	5.4	7.9	434	2.52	9.5	4.2	1.6	14.6	26	<0.1	0.9	1.3	47
B0054053	RC Chip	1.27	0.007	2.3	13.9	14.2	35	0.3	4.7	12.8	473	2.70	14.9	4.5	3.1	16.5	32	0.1	1.0	1.0	46
B0054054	RC Chip	1.41	0.029	2.1	57.7	25.3	40	0.5	5.0	12.1	564	3.03	18.7	5.1	6.0	17.6	31	0.1	1.4	2.6	48
B0054055	RC Chip	1.96	0.059	2.6	112.4	101.5	32	2.0	4.4	6.8	415	2.58	22.9	4.3	6.2	15.2	48	0.1	2.4	4.5	41
B0054056	RC Chip	2.34	0.006	1.5	5.7	17.0	30	0.1	4.1	6.1	399	2.38	7.0	4.2	<0.5	13.7	34	<0.1	1.0	0.4	44
B0054057	RC Chip	2.84	<0.005	1.5	9.5	10.4	35	0.2	4.3	6.1	448	2.65	8.3	4.4	<0.5	14.1	44	<0.1	0.9	0.9	49
B0054058	RC Chip	2.56	0.009	1.5	25.4	37.9	45	0.6	4.4	7.0	495	2.75	62.7	3.3	6.6	13.5	114	0.4	1.4	1.6	44
B0054059	RC Chip	2.18	0.006	1.7	13.6	26.0	41	0.3	4.2	7.0	482	2.62	24.8	3.5	4.5	15.2	70	0.3	1.7	0.8	44



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Pb %
	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01
B0054030	RC Chip	1.09	0.072	13	11	0.42	62	0.038	<20	0.94	0.033	0.20	2.5	<0.01	2.2	0.2	0.79	4	<0.5	0.5
B0054031	RC Chip	0.75	0.068	11	11	0.56	61	0.078	<20	1.26	0.048	0.12	2.2	<0.01	2.6	0.1	0.27	5	<0.5	<0.2
B0054032	RC Chip	0.69	0.066	10	11	0.56	57	0.073	<20	1.20	0.042	0.12	2.7	<0.01	2.3	0.1	0.27	5	<0.5	<0.2
B0054033	RC Chip	0.82	0.066	12	11	0.54	66	0.064	<20	1.11	0.040	0.15	8.1	<0.01	2.2	0.1	0.60	4	<0.5	<0.2
B0054034	RC Chip	0.82	0.069	13	13	0.61	43	0.093	<20	1.18	0.043	0.11	9.5	<0.01	2.9	0.2	0.46	5	<0.5	<0.2
B0054035	RC Chip	1.18	0.066	13	12	0.80	50	0.080	<20	1.39	0.032	0.17	5.6	<0.01	3.3	0.3	0.92	7	<0.5	<0.2
B0054036	RC Chip	0.96	0.070	19	13	0.75	142	0.119	<20	1.28	0.045	0.25	8.6	<0.01	4.0	0.3	0.60	6	<0.5	<0.2
B0054037	RC Chip	0.94	0.074	21	14	0.70	171	0.126	<20	1.30	0.056	0.26	16.3	<0.01	4.1	0.3	0.51	6	<0.5	<0.2
B0054038	RC Chip	0.82	0.074	18	13	0.71	58	0.118	<20	1.25	0.053	0.14	4.1	<0.01	3.8	0.2	0.44	6	<0.5	<0.2
B0054039	RC Chip	0.75	0.070	15	14	0.66	59	0.111	<20	1.18	0.054	0.14	16.4	<0.01	3.2	0.2	0.29	6	<0.5	<0.2
B0054040	RC Chip	0.81	0.067	22	14	0.71	162	0.136	<20	1.25	0.065	0.27	2.7	<0.01	3.5	0.3	<0.05	5	<0.5	<0.2
B0054041	RC Chip	0.78	0.066	16	13	0.66	116	0.124	<20	1.22	0.052	0.22	7.4	<0.01	3.0	0.3	0.13	5	<0.5	<0.2
B0054042	RC Chip	0.71	0.064	14	14	0.61	93	0.105	<20	1.22	0.056	0.19	2.2	<0.01	2.4	0.3	0.12	5	<0.5	<0.2
B0054043	RC Chip	1.08	0.069	18	13	0.65	85	0.063	<20	1.16	0.040	0.19	1.9	<0.01	2.7	0.3	0.22	5	<0.5	<0.2
B0054044	RC Chip	1.25	0.066	15	12	0.69	48	0.033	<20	1.28	0.035	0.18	1.6	<0.01	2.5	0.3	0.15	6	<0.5	<0.2
B0054045	RC Chip	1.29	0.062	14	12	0.76	43	0.020	<20	1.42	0.026	0.19	2.7	<0.01	2.7	0.3	1.14	6	<0.5	0.5
B0054046	RC Chip	1.50	0.067	15	11	0.76	60	0.024	<20	1.43	0.030	0.20	1.5	<0.01	2.8	0.3	0.90	6	<0.5	0.3
B0054047	RC Chip	1.04	0.068	12	13	0.66	54	0.093	<20	1.29	0.045	0.15	1.9	<0.01	2.4	0.3	0.18	6	<0.5	<0.2
B0054048	RC Chip	0.85	0.074	17	18	0.81	138	0.122	<20	1.38	0.052	0.26	3.1	<0.01	3.0	0.3	0.28	6	<0.5	<0.2
B0054049	RC Chip	0.77	0.075	25	17	0.69	245	0.144	<20	1.20	0.060	0.35	2.7	<0.01	2.9	0.4	0.10	5	<0.5	<0.2
B0054050	RC Chip	0.97	0.080	12	16	0.73	47	0.108	<20	1.36	0.042	0.15	2.7	<0.01	2.4	0.2	0.16	5	<0.5	<0.2
B0054051	RC Chip	0.71	0.070	14	16	0.70	119	0.128	<20	1.24	0.055	0.25	2.4	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
B0054052	RC Chip	0.57	0.075	18	20	0.73	390	0.174	<20	1.10	0.057	0.55	2.7	<0.01	2.4	0.6	0.06	5	<0.5	<0.2
B0054053	RC Chip	0.65	0.076	23	18	0.66	326	0.163	<20	1.10	0.076	0.46	2.9	<0.01	2.5	0.5	0.10	4	<0.5	<0.2
B0054054	RC Chip	0.80	0.074	25	18	0.82	259	0.153	<20	1.33	0.056	0.40	2.4	<0.01	3.2	0.5	0.17	6	<0.5	<0.2
B0054055	RC Chip	0.62	0.060	20	16	0.62	226	0.136	<20	1.10	0.071	0.38	2.3	<0.01	2.9	0.5	0.13	5	<0.5	<0.2
B0054056	RC Chip	0.56	0.064	21	15	0.62	359	0.171	<20	1.07	0.092	0.51	1.0	<0.01	2.8	0.6	<0.05	4	<0.5	<0.2
B0054057	RC Chip	0.66	0.065	23	15	0.73	388	0.180	<20	1.26	0.092	0.55	1.1	<0.01	3.5	0.6	<0.05	5	<0.5	<0.2
B0054058	RC Chip	1.01	0.068	16	13	0.75	118	0.110	<20	1.45	0.057	0.23	1.1	<0.01	3.1	0.3	0.21	6	<0.5	<0.2
B0054059	RC Chip	0.92	0.067	16	14	0.74	66	0.120	<20	1.45	0.058	0.17	1.3	<0.01	3.0	0.2	0.10	6	<0.5	<0.2



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0054060	RC Chip	2.00	0.007	2.1	12.0	44.5	39	0.3	4.4	4.2	481	2.78	21.4	4.6	3.8	14.3	42	0.2	2.1	1.0	44
B0054061	RC Chip	2.21	0.010	2.0	6.8	37.6	39	0.2	5.0	5.5	517	2.75	21.4	4.5	2.8	20.6	37	0.1	2.4	0.6	42
B0054062	RC Chip	2.39	0.021	2.2	5.8	29.2	36	0.2	4.9	8.1	505	2.87	13.3	4.7	0.6	16.5	38	<0.1	1.7	0.3	52
B0054063	RC Chip	2.13	0.013	1.6	12.3	22.5	40	0.3	4.4	9.1	559	2.83	29.9	4.4	3.4	15.5	39	<0.1	1.7	1.6	46
B0054064	RC Chip	2.40	0.016	2.0	14.6	25.6	38	0.3	4.8	10.3	590	2.81	35.6	3.4	8.2	15.5	66	0.1	1.8	1.6	43
B0054065	RC Chip	2.15	0.016	3.9	17.2	25.2	34	0.3	4.7	9.5	488	2.73	39.7	5.5	22.0	16.4	36	0.1	2.0	0.9	38
B0054066	RC Chip	2.13	0.028	1.9	59.9	32.3	35	0.6	4.4	6.9	442	2.48	15.4	3.8	5.4	15.3	121	0.2	1.8	17.4	41
B0054067	RC Chip	2.10	0.030	18.3	46.5	37.7	44	0.5	5.1	7.4	496	2.69	28.8	10.6	9.0	16.0	48	0.2	2.5	5.4	38
B0054068	RC Chip	2.48	0.015	3.5	24.5	33.4	41	0.3	5.1	6.5	555	2.75	32.0	3.6	4.9	15.5	57	0.2	2.5	1.3	39
B0054069	RC Chip	2.22	0.009	3.0	27.0	28.5	35	0.4	4.6	5.7	515	2.66	24.1	4.2	3.8	16.6	50	0.2	2.1	1.3	42
B0054070	RC Chip	2.36	0.028	2.7	18.3	27.8	29	0.3	4.7	15.4	465	2.46	27.1	11.9	25.9	15.8	52	<0.1	2.4	0.5	33
B0054071	RC Chip	3.02	0.012	2.7	7.0	44.5	32	0.2	4.7	6.9	478	2.34	27.9	3.1	5.5	16.4	41	0.1	2.6	0.6	30
B0054072	RC Chip	2.54	0.009	6.9	24.5	29.4	35	0.3	4.5	7.9	531	2.43	25.6	2.8	12.8	14.3	46	0.2	2.1	0.6	39
B0054073	RC Chip	2.29	0.007	2.7	10.7	29.4	37	0.2	4.2	8.0	522	2.40	25.7	3.6	1.9	16.5	56	0.2	1.9	0.5	36
B0054074	RC Chip	2.15	0.006	2.5	15.9	14.9	40	0.2	4.6	3.8	618	2.92	14.7	5.5	1.2	16.1	43	0.1	1.7	0.6	43
B0054075	RC Chip	2.82	0.008	2.7	11.1	17.4	34	0.2	4.7	8.9	542	2.52	25.2	3.1	2.4	15.9	43	0.2	1.6	0.5	39
B0054076	RC Chip	2.78	0.032	2.2	3.1	14.5	36	<0.1	4.3	7.2	504	2.40	22.8	2.1	6.3	12.5	43	0.1	1.6	0.3	30
B0054077	RC Chip	2.47	0.008	2.6	6.6	31.0	43	0.2	5.0	8.6	476	2.44	29.6	2.7	3.3	12.2	38	0.1	1.8	0.5	30
B0054078	RC Chip	2.05	0.016	2.6	18.4	35.7	41	0.3	4.9	9.1	525	2.72	29.4	3.3	12.1	14.1	41	0.1	2.0	0.9	40



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01		
B0054060	RC Chip	0.80	0.069	19	18	0.70	120	0.124	<20	1.33	0.054	0.22	1.7	<0.01	3.1	0.3	0.08	6	<0.5	<0.2	
B0054061	RC Chip	0.72	0.070	19	15	0.78	163	0.136	<20	1.38	0.054	0.27	1.4	<0.01	2.9	0.3	0.06	6	<0.5	<0.2	
B0054062	RC Chip	0.62	0.070	27	20	0.73	413	0.191	<20	1.24	0.091	0.56	2.0	<0.01	3.3	0.6	<0.05	5	<0.5	<0.2	
B0054063	RC Chip	0.68	0.070	20	15	0.74	123	0.122	<20	1.36	0.060	0.20	1.4	<0.01	3.1	0.3	0.14	6	<0.5	<0.2	
B0054064	RC Chip	0.75	0.069	20	19	0.76	51	0.100	<20	1.38	0.048	0.11	2.0	<0.01	3.0	0.1	0.19	5	<0.5	<0.2	
B0054065	RC Chip	0.86	0.072	17	15	0.70	61	0.099	<20	1.30	0.049	0.14	1.6	<0.01	2.8	0.2	0.33	6	<0.5	<0.2	
B0054066	RC Chip	0.79	0.067	17	16	0.62	67	0.098	<20	1.25	0.056	0.11	1.9	<0.01	3.3	0.1	0.29	6	<0.5	<0.2	
B0054067	RC Chip	0.74	0.069	14	17	0.66	60	0.081	<20	1.37	0.047	0.15	4.2	<0.01	2.9	0.2	0.18	6	<0.5	<0.2	
B0054068	RC Chip	0.87	0.075	14	22	0.67	52	0.089	<20	1.44	0.049	0.12	2.5	<0.01	2.9	0.2	0.16	6	<0.5	<0.2	
B0054069	RC Chip	0.72	0.070	15	20	0.61	51	0.097	<20	1.33	0.057	0.10	1.9	<0.01	3.0	0.1	0.12	5	<0.5	<0.2	
B0054070	RC Chip	0.72	0.069	14	16	0.52	62	0.088	<20	1.26	0.055	0.16	2.2	<0.01	2.9	0.2	0.30	5	<0.5	<0.2	
B0054071	RC Chip	0.66	0.073	11	17	0.51	56	0.078	<20	1.16	0.044	0.15	2.2	<0.01	2.3	0.1	0.09	5	<0.5	<0.2	
B0054072	RC Chip	0.80	0.080	12	19	0.59	47	0.093	<20	1.37	0.053	0.11	1.6	<0.01	2.7	0.1	0.11	5	<0.5	<0.2	
B0054073	RC Chip	0.82	0.076	14	19	0.59	58	0.091	<20	1.36	0.054	0.13	1.8	<0.01	2.6	0.2	0.08	6	<0.5	<0.2	
B0054074	RC Chip	0.70	0.071	18	19	0.79	65	0.108	<20	1.51	0.051	0.12	2.1	<0.01	3.2	0.1	<0.05	6	<0.5	<0.2	
B0054075	RC Chip	0.73	0.070	15	21	0.61	54	0.095	<20	1.33	0.053	0.10	1.9	<0.01	2.7	0.1	0.14	5	<0.5	<0.2	
B0054076	RC Chip	0.79	0.068	9	16	0.63	46	0.078	<20	1.26	0.040	0.12	1.7	<0.01	1.9	0.1	0.17	5	<0.5	<0.2	
B0054077	RC Chip	0.87	0.067	9	17	0.63	51	0.077	<20	1.29	0.040	0.14	2.1	<0.01	2.0	0.2	0.23	5	<0.5	<0.2	
B0054078	RC Chip	0.81	0.076	15	20	0.70	85	0.102	<20	1.36	0.044	0.16	2.6	<0.01	2.4	0.2	0.18	5	<0.5	<0.2	



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Project: Rude Creek
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QUALITY CONTROL REPORT

WHI20000520.2

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V		
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1		
Pulp Duplicates																						
B0053830	RC Chip	1.82	<0.005	3.3	12.6	9.2	36	0.1	4.4	3.9	402	2.32	10.4	4.6	<0.5	16.1	34	<0.1	2.4	0.4	30	
REP B0053830	QC			3.2	14.2	9.1	36	0.1	4.5	3.9	390	2.31	10.0	4.9	<0.5	16.8	34	0.2	2.3	0.3	30	
B0054006	RC Chip	1.85	0.080	1.4	27.6	57.9	76	0.8	4.6	8.5	518	3.19	44.2	16.1	109.0	18.7	13	1.9	1.6	4.0	5	
REP B0054006	QC			1.4	28.3	56.7	79	0.8	5.1	8.8	512	3.13	44.6	16.1	45.3	18.1	13	2.0	1.6	4.2	5	
REP B0054041	QC			2.0	30.0	12.2	36	0.2	4.1	7.4	415	2.50	25.8	3.6	5.8	16.6	51	0.1	1.0	1.9	42	
B0054070	RC Chip	2.36	0.028	2.7	18.3	27.8	29	0.3	4.7	15.4	465	2.46	27.1	11.9	25.9	15.8	52	<0.1	2.4	0.5	33	
REP B0054070	QC		0.031																			
B0054071	RC Chip	3.02	0.012	2.7	7.0	44.5	32	0.2	4.7	6.9	478	2.34	27.9	3.1	5.5	16.4	41	0.1	2.6	0.6	30	
REP B0054071	QC		0.009																			
REP B0054075	QC			2.7	11.1	17.6	34	0.2	4.6	8.4	548	2.54	26.3	3.4	1.0	15.9	41	0.1	1.5	0.5	38	
B0054078	RC Chip	2.05	0.016	2.6	18.4	35.7	41	0.3	4.9	9.1	525	2.72	29.4	3.3	12.1	14.1	41	0.1	2.0	0.9	40	
REP B0054078	QC			2.8	19.6	36.3	43	0.3	5.3	9.3	533	2.75	30.2	3.1	2.8	13.9	42	0.2	1.8	0.8	41	
Core Reject Duplicates																						
B0053832	RC Chip	2.55	0.005	2.1	16.7	7.4	41	0.2	4.5	3.7	434	2.51	10.7	3.2	<0.5	16.0	32	0.2	2.6	3.4	35	
DUP B0053832	QC		<0.005	2.5	16.9	7.5	42	0.3	4.7	3.5	437	2.56	11.5	3.4	<0.5	17.6	32	0.2	2.5	3.2	35	
B0054007	RC Chip	2.02	0.028	2.4	6.2	41.4	31	0.4	4.4	6.2	482	2.89	92.9	5.3	35.4	16.1	29	0.1	0.8	4.5	13	
DUP B0054007	QC		0.027	2.1	6.4	37.7	30	0.3	3.7	5.9	466	2.75	88.1	5.2	18.8	16.3	28	<0.1	1.0	4.3	12	
B0054041	RC Chip	2.51	0.010	1.9	30.4	12.3	39	0.2	4.4	7.3	415	2.49	26.8	4.3	3.5	17.3	52	0.2	1.0	1.9	42	
DUP B0054041	QC		0.006	2.1	30.2	12.0	39	0.2	4.6	7.9	420	2.44	25.3	3.7	3.7	15.2	55	0.2	1.1	1.6	40	
B0054075	RC Chip	2.82	0.008	2.7	11.1	17.4	34	0.2	4.7	8.9	542	2.52	25.2	3.1	2.4	15.9	43	0.2	1.6	0.5	39	
DUP B0054075	QC		0.006	2.6	10.5	16.5	33	0.1	4.6	8.5	533	2.47	26.3	3.2	1.7	15.1	41	0.2	1.5	0.5	38	
Reference Materials																						
STD BVGEO01	Standard			11.1	4462.9	190.0	1768	2.7	158.7	24.0	708	3.66	127.1	3.7	233.5	16.1	57	6.9	3.3	26.2	73	
STD BVGEO01	Standard			10.9	4474.7	196.0	1769	2.7	159.3	26.0	753	3.64	127.6	4.0	227.3	14.6	57	6.6	3.2	27.1	71	
STD CDN-ME-9A	Standard																					
STD CDN-ME-14A	Standard																					
STD DS11	Standard			14.8	151.9	146.1	368	1.8	82.4	14.5	1055	3.17	48.7	2.8	127.2	8.7	72	2.6	9.3	13.7	50	
STD DS11	Standard			13.9	140.9	140.1	340	1.9	76.9	13.5	1006	2.96	43.5	2.4	43.1	7.8	66	2.5	9.5	12.8	45	



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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01		
Pulp Duplicates																					
B0053830	RC Chip	0.76	0.072	11	18	0.55	52	0.091	<20	1.13	0.052	0.17	2.3	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2	
REP B0053830	QC	0.75	0.071	12	18	0.55	54	0.090	<20	1.10	0.051	0.17	2.5	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2	
B0054006	RC Chip	0.98	0.048	10	4	0.16	74	0.001	<20	0.86	0.013	0.30	1.7	<0.01	1.0	0.2	2.02	2	0.5	0.3	
REP B0054006	QC	0.96	0.047	10	4	0.15	77	0.001	<20	0.84	0.013	0.29	1.8	<0.01	1.0	0.3	2.17	2	<0.5	0.3	
REP B0054041	QC	0.78	0.064	16	13	0.66	118	0.119	<20	1.22	0.051	0.21	6.9	0.01	2.9	0.3	0.14	5	<0.5	<0.2	
B0054070	RC Chip	0.72	0.069	14	16	0.52	62	0.088	<20	1.26	0.055	0.16	2.2	<0.01	2.9	0.2	0.30	5	<0.5	<0.2	
REP B0054070	QC																				
B0054071	RC Chip	0.66	0.073	11	17	0.51	56	0.078	<20	1.16	0.044	0.15	2.2	<0.01	2.3	0.1	0.09	5	<0.5	<0.2	
REP B0054071	QC																				
REP B0054075	QC	0.70	0.074	14	20	0.62	52	0.084	<20	1.32	0.050	0.10	2.0	<0.01	2.6	0.1	0.14	5	<0.5	<0.2	
B0054078	RC Chip	0.81	0.076	15	20	0.70	85	0.102	<20	1.36	0.044	0.16	2.6	<0.01	2.4	0.2	0.18	5	<0.5	<0.2	
REP B0054078	QC	0.80	0.076	14	20	0.71	87	0.101	<20	1.36	0.044	0.16	2.7	<0.01	2.4	0.2	0.19	6	<0.5	<0.2	
Core Reject Duplicates																					
B0053832	RC Chip	0.81	0.068	13	17	0.70	52	0.122	<20	1.26	0.056	0.22	1.9	<0.01	2.5	0.4	0.08	5	<0.5	<0.2	
DUP B0053832	QC	0.82	0.067	13	17	0.69	50	0.123	<20	1.26	0.054	0.23	1.8	<0.01	2.5	0.4	0.08	5	<0.5	<0.2	
B0054007	RC Chip	1.55	0.074	16	6	0.38	89	0.003	<20	1.03	0.022	0.30	3.0	<0.01	1.7	0.3	1.19	3	<0.5	0.9	
DUP B0054007	QC	1.52	0.068	15	6	0.37	85	0.003	<20	0.97	0.021	0.29	2.7	<0.01	1.5	0.3	1.29	3	<0.5	0.7	
B0054041	RC Chip	0.78	0.066	16	13	0.66	116	0.124	<20	1.22	0.052	0.22	7.4	<0.01	3.0	0.3	0.13	5	<0.5	<0.2	
DUP B0054041	QC	0.77	0.063	17	14	0.65	127	0.118	<20	1.23	0.054	0.21	7.2	<0.01	3.0	0.3	0.13	5	<0.5	<0.2	
B0054075	RC Chip	0.73	0.070	15	21	0.61	54	0.095	<20	1.33	0.053	0.10	1.9	<0.01	2.7	0.1	0.14	5	<0.5	<0.2	
DUP B0054075	QC	0.71	0.071	13	19	0.60	49	0.090	<20	1.30	0.049	0.10	1.9	<0.01	2.5	0.1	0.14	5	<0.5	<0.2	
Reference Materials																					
STD BVGEO01	Standard	1.31	0.074	28	170	1.27	349	0.240	<20	2.21	0.185	0.90	4.2	0.09	5.8	0.7	0.68	8	4.7	1.1	
STD BVGEO01	Standard	1.32	0.076	28	171	1.32	349	0.243	<20	2.31	0.183	0.90	4.4	0.10	5.8	0.7	0.70	7	5.3	0.9	
STD CDN-ME-9A	Standard																			<0.01	
STD CDN-ME-14A	Standard																			0.50	
STD DS11	Standard	1.07	0.073	20	61	0.86	418	0.095	<20	1.18	0.073	0.41	2.7	0.27	3.4	5.2	0.28	5	2.5	4.6	
STD DS11	Standard	1.00	0.073	18	59	0.82	412	0.092	<20	1.08	0.066	0.39	3.1	0.26	3.2	4.7	0.27	4	2.0	4.6	



Bureau Veritas Commodities Canada Ltd.

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Project: Rude Creek
Report Date: March 05, 2021

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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
STD DS11	Standard			14.3	143.5	137.8	336	1.6	79.4	13.5	1010	3.01	45.3	2.6	49.5	9.3	67	2.5	7.4	12.4	48	
STD OREAS262	Standard			0.8	119.0	59.1	162	0.5	65.9	29.0	566	3.29	40.9	1.3	78.2	10.1	39	0.7	4.6	1.1	21	
STD OREAS262	Standard			0.6	110.7	56.3	149	0.4	62.1	27.3	535	3.05	35.8	1.2	74.2	9.3	35	0.6	4.7	1.0	19	
STD OREAS262	Standard			0.6	111.7	60.4	158	0.5	65.5	27.6	536	3.30	38.8	1.3	78.4	10.7	37	0.6	4.2	1.1	21	
STD OREAS262	Standard			0.6	111.0	57.2	148	0.5	62.7	26.3	523	3.27	37.5	1.1	70.2	9.7	36	0.7	3.8	1.1	22	
STD OREAS262	Standard			0.6	112.2	56.2	153	0.5	62.9	27.6	544	3.10	37.7	1.2	64.3	9.2	36	0.6	4.2	1.1	19	
STD OXB130	Standard		0.121																			
STD OXB130	Standard		0.124																			
STD OXB130	Standard		0.120																			
STD OXG141	Standard		0.936																			
STD OXG141	Standard		0.947																			
STD OXG141	Standard		0.947																			
STD OXN155	Standard		7.724																			
STD OXN155	Standard		7.606																			
STD OXN155	Standard		7.547																			
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
STD OXG141 Expected			0.93																			
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
STD CDN-ME-9A Expected																						
STD CDN-ME-14A Expected																						
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank		<0.005																			



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01	
STD DS11	Standard	1.05	0.068	18	57	0.83	428	0.090	<20	1.10	0.068	0.40	2.7	0.25	3.2	4.6	0.30	5	2.5	4.4	
STD OREAS262	Standard	3.07	0.043	18	43	1.22	262	0.003	<20	1.33	0.067	0.31	0.1	0.15	3.6	0.5	0.27	4	<0.5	0.2	
STD OREAS262	Standard	2.85	0.040	16	40	1.15	237	0.003	<20	1.21	0.065	0.29	0.2	0.16	3.1	0.5	0.25	3	0.5	0.3	
STD OREAS262	Standard	2.99	0.040	17	42	1.21	264	0.003	<20	1.24	0.070	0.31	0.2	0.19	3.5	0.4	0.29	4	0.7	0.2	
STD OREAS262	Standard	2.88	0.040	16	41	1.19	257	0.003	<20	1.25	0.069	0.31	0.1	0.16	3.2	0.4	0.29	4	<0.5	0.2	
STD OREAS262	Standard	2.96	0.038	14	40	1.17	244	0.003	<20	1.18	0.065	0.27	0.2	0.15	3.1	0.4	0.25	4	<0.5	0.3	
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56	
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02	
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23	
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD CDN-ME-9A Expected																					0.003
STD CDN-ME-14A Expected																					0.488
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2	



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Project: Rude Creek
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QUALITY CONTROL REPORT

WHI20000520.2

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
BLK	Blank	<0.005																				
BLK	Blank	<0.005																				
BLK	Blank	<0.005																				
BLK	Blank	0.006																				
BLK	Blank	<0.005																				
BLK	Blank																					
Prep Wash																						
ROCK-WHI	Prep Blank	<0.005	0.6	1.4	1.5	27	<0.1	0.9	3.6	414	1.81	1.4	0.5	<0.5	3.0	27	<0.1	<0.1	<0.1	22		
ROCK-WHI	Prep Blank	<0.005	1.2	1.5	1.1	26	<0.1	0.9	3.3	402	1.72	1.3	0.4	0.7	2.7	25	<0.1	<0.1	<0.1	21		



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ370		
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01		
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					<0.01
Prep Wash																						
ROCK-WHI	Prep Blank	0.62	0.038	8	5	0.42	64	0.089	<20	0.96	0.109	0.10	0.2	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2		
ROCK-WHI	Prep Blank	0.60	0.038	8	6	0.41	62	0.081	<20	0.86	0.090	0.09	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2		



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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: February 02, 2021
Report Date: February 22, 2021
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI20000521.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	138	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	138	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

SAMPLE DISPOSAL

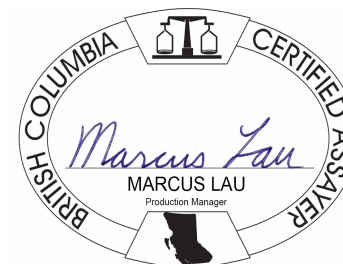
DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

WHI20000521.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0054085	RC Chip	2.49	0.009	5.5	24.1	17.2	39	0.2	5.3	7.9	515	2.53	14.6	2.9	2.0	14.4	56	0.1	2.1	0.3	36
B0054079	RC Chip	2.27	0.006	2.6	15.2	21.3	38	0.2	4.5	6.7	457	2.46	21.1	2.5	6.3	15.7	35	0.1	1.4	0.8	38
B0054080	RC Chip	2.33	0.015	2.7	6.5	13.9	35	0.1	4.7	8.3	486	2.63	23.5	3.1	9.8	15.1	35	<0.1	1.2	0.6	36
B0054081	RC Chip	2.25	0.033	3.0	6.9	33.6	39	0.3	5.2	13.7	514	3.05	35.1	4.0	111.8	18.0	52	0.1	1.5	1.0	38
B0054082	RC Chip	2.11	0.009	8.1	9.4	11.4	38	0.1	3.8	8.3	483	2.32	15.4	3.9	3.4	18.7	64	0.2	1.6	0.4	29
B0054083	RC Chip	2.14	0.008	4.0	8.0	71.4	32	0.3	4.5	8.0	439	2.35	24.0	3.1	5.3	16.9	67	0.2	2.4	0.6	30
B0054084	RC Chip	1.82	<0.005	4.4	5.2	9.1	30	<0.1	4.7	8.4	414	2.19	9.9	2.9	1.2	14.0	57	<0.1	1.9	0.1	30
B0054086	RC Chip	1.83	0.045	100.2	75.6	33.2	29	0.8	4.8	13.7	442	2.40	35.9	12.1	28.0	17.4	34	0.2	3.4	1.9	21
B0054087	RC Chip	2.35	0.008	6.6	18.8	12.1	26	0.2	5.0	8.9	355	2.11	18.7	4.8	10.2	16.9	85	<0.1	2.5	0.5	19
B0054088	RC Chip	2.24	0.006	3.5	14.7	6.5	25	0.1	4.4	7.9	334	2.05	12.8	3.2	2.1	19.6	23	<0.1	2.1	0.4	20
B0054089	RC Chip	2.61	<0.005	3.6	21.9	12.5	34	0.2	4.4	3.5	367	2.16	9.0	2.1	0.6	15.8	28	0.1	2.2	0.3	28
B0054090	RC Chip	1.82	0.005	3.7	9.8	13.7	34	<0.1	4.6	5.1	344	1.99	11.7	2.4	6.0	16.7	25	<0.1	2.0	0.1	21
B0054091	RC Chip	1.28	0.066	7.2	57.6	27.4	33	0.6	4.9	12.4	369	2.30	18.0	3.7	26.1	18.7	54	0.1	2.3	2.0	29
B0054194	RC Chip	1.90	0.175	2.3	20.9	516.8	24	3.1	5.3	5.2	261	2.76	175.1	2.3	384.6	17.9	31	0.2	5.4	7.2	14
B0054195	RC Chip	2.60	0.301	2.0	64.7	259.8	44	1.9	5.0	8.2	600	2.91	133.7	4.1	236.8	20.7	21	0.5	3.8	6.9	10
B0054196	RC Chip	3.51	0.212	1.1	9.0	118.7	17	2.8	2.1	2.1	123	2.92	93.8	1.7	151.6	14.0	16	<0.1	1.3	10.6	3
B0054197	RC Chip	2.33	0.113	9.4	16.3	106.0	24	1.4	2.4	2.5	133	3.05	161.0	1.5	51.9	12.7	12	<0.1	0.6	4.1	7
B0054198	RC Chip	4.02	0.354	2.5	12.3	1898.5	6	17.2	2.2	1.1	72	2.40	223.0	1.2	292.3	16.1	8	<0.1	2.0	52.1	6
B0054199	RC Chip	2.08	0.400	4.5	15.4	1973.2	8	16.1	1.1	0.8	46	3.03	232.9	1.0	337.9	21.9	22	0.1	3.9	45.1	7
B0054200	RC Chip	1.89	1.774	7.7	24.8	3846.6	5	40.1	0.9	0.7	45	2.47	190.8	1.0	551.9	21.1	23	0.1	11.5	64.7	5
B0054201	RC Chip	1.92	0.169	2.9	14.5	625.6	9	6.7	2.3	1.0	64	2.10	372.9	0.6	81.0	12.0	12	0.1	2.1	14.9	6
B0054202	RC Chip	2.30	0.129	4.2	22.1	415.0	20	4.4	2.0	2.2	84	2.61	249.9	1.7	53.7	15.5	11	0.1	1.6	9.9	9
B0054203	RC Chip	3.61	0.055	2.4	78.8	132.3	49	1.3	4.0	3.9	317	3.20	119.0	3.1	21.1	19.6	35	0.4	1.4	11.1	26
B0054204	RC Chip	1.20	0.341	3.3	29.5	1065.1	23	11.1	3.0	3.1	197	2.67	168.2	2.8	169.9	19.5	21	0.3	2.1	30.3	12
B0054205	RC Chip	2.70	0.073	6.0	40.3	46.9	29	0.7	3.8	4.5	233	3.18	167.2	4.8	69.5	21.6	45	0.3	1.9	6.1	17
B0054206	RC Chip	2.18	0.042	8.9	47.6	21.1	33	0.3	5.9	9.2	355	2.69	117.7	10.7	33.7	19.7	25	0.5	1.3	3.3	14
B0054207	RC Chip	2.40	0.064	1.2	55.5	11.3	37	0.4	5.2	8.0	516	2.95	64.0	6.7	20.0	20.2	22	0.3	0.9	7.0	20
B0054208	RC Chip	2.47	0.020	1.6	34.2	14.0	37	0.3	3.9	5.1	415	2.40	71.7	3.2	12.6	17.4	23	0.2	1.3	8.2	24
B0054209	RC Chip	2.49	0.011	1.3	25.8	18.8	43	0.2	4.6	6.8	466	2.27	58.2	3.2	7.0	18.1	34	0.5	2.7	3.0	28
B0054210	RC Chip	2.32	0.013	1.6	21.0	11.6	33	0.1	4.3	5.0	385	2.08	41.2	3.4	3.9	16.5	59	0.3	2.2	1.0	28



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Project: Rude Creek
Report Date: February 22, 2021

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CERTIFICATE OF ANALYSIS

WHI20000521.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0054085	RC Chip	0.78	0.076	15	20	0.62	140	0.103	<20	1.15	0.051	0.21	6.6	<0.01	2.4	0.3	0.08	5	<0.5	<0.2
B0054079	RC Chip	0.72	0.070	14	19	0.60	57	0.079	<20	1.17	0.048	0.12	2.2	<0.01	2.1	0.1	0.13	5	<0.5	<0.2
B0054080	RC Chip	0.81	0.079	14	19	0.64	70	0.074	<20	1.19	0.048	0.15	2.4	<0.01	2.2	0.2	0.28	5	<0.5	<0.2
B0054081	RC Chip	1.06	0.072	12	19	0.67	78	0.073	<20	1.20	0.040	0.16	2.1	<0.01	2.4	0.2	0.62	5	<0.5	<0.2
B0054082	RC Chip	0.83	0.064	8	10	0.62	51	0.066	<20	1.19	0.047	0.10	2.1	<0.01	1.6	0.1	0.16	5	<0.5	<0.2
B0054083	RC Chip	0.66	0.067	10	17	0.52	56	0.072	<20	1.02	0.049	0.10	4.0	<0.01	1.6	0.1	0.11	4	<0.5	<0.2
B0054084	RC Chip	0.58	0.059	11	22	0.52	64	0.079	<20	0.98	0.051	0.12	4.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
B0054086	RC Chip	0.89	0.072	13	14	0.45	75	0.029	<20	1.04	0.030	0.25	3.3	<0.01	1.9	0.4	0.53	4	<0.5	<0.2
B0054087	RC Chip	0.79	0.086	12	18	0.40	104	0.044	<20	0.98	0.036	0.22	3.2	<0.01	1.9	0.3	0.13	4	<0.5	<0.2
B0054088	RC Chip	0.68	0.072	9	16	0.43	76	0.047	<20	0.98	0.036	0.19	3.0	<0.01	1.5	0.2	0.06	4	<0.5	<0.2
B0054089	RC Chip	0.71	0.081	8	19	0.45	69	0.074	<20	1.01	0.051	0.16	2.8	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
B0054090	RC Chip	0.72	0.075	8	16	0.41	78	0.067	<20	0.96	0.043	0.18	2.8	<0.01	1.6	0.2	<0.05	4	<0.5	<0.2
B0054091	RC Chip	0.67	0.077	9	18	0.46	69	0.069	<20	1.04	0.054	0.17	3.9	<0.01	2.5	0.2	0.29	5	<0.5	<0.2
B0054194	RC Chip	0.12	0.070	13	7	0.16	150	0.010	<20	0.58	0.045	0.32	0.5	<0.01	1.1	0.3	0.49	3	<0.5	0.8
B0054195	RC Chip	0.50	0.072	16	7	0.12	108	0.003	<20	0.73	0.025	0.28	0.8	<0.01	1.5	0.3	0.38	2	<0.5	0.8
B0054196	RC Chip	0.07	0.053	12	4	0.01	121	0.001	<20	0.20	0.011	0.38	1.9	<0.01	0.7	0.4	0.66	<1	<0.5	1.2
B0054197	RC Chip	0.06	0.036	13	5	0.02	100	0.001	<20	0.28	0.010	0.43	1.5	<0.01	0.7	0.4	0.69	2	0.6	0.5
B0054198	RC Chip	0.02	0.031	10	7	0.02	125	0.003	<20	0.36	0.011	0.47	1.7	<0.01	0.5	0.3	0.68	3	0.6	1.2
B0054199	RC Chip	0.02	0.050	9	5	0.02	201	0.005	<20	0.39	0.015	0.72	1.9	<0.01	0.7	0.6	1.12	4	0.9	2.8
B0054200	RC Chip	0.01	0.060	9	4	0.02	166	0.004	<20	0.37	0.017	0.55	1.9	<0.01	0.6	0.4	0.89	3	1.3	3.2
B0054201	RC Chip	0.02	0.123	14	5	0.02	101	0.002	<20	0.37	0.011	0.39	1.8	<0.01	0.5	0.4	0.63	2	<0.5	1.8
B0054202	RC Chip	0.06	0.087	14	4	0.04	110	0.002	<20	0.44	0.020	0.39	1.7	<0.01	0.7	0.4	0.73	3	<0.5	1.1
B0054203	RC Chip	0.28	0.067	20	8	0.39	115	0.005	<20	1.15	0.048	0.23	0.9	<0.01	1.8	0.3	0.48	4	<0.5	<0.2
B0054204	RC Chip	0.33	0.060	12	7	0.19	104	0.006	<20	0.59	0.019	0.36	2.3	<0.01	1.0	0.3	0.81	3	0.6	1.0
B0054205	RC Chip	0.40	0.083	20	8	0.31	136	0.006	<20	0.93	0.073	0.29	2.3	<0.01	1.4	0.3	0.77	4	<0.5	0.4
B0054206	RC Chip	0.93	0.068	16	7	0.41	88	0.008	<20	1.06	0.032	0.23	2.0	<0.01	1.6	0.3	1.56	3	<0.5	<0.2
B0054207	RC Chip	1.25	0.073	15	9	0.59	84	0.005	<20	1.16	0.025	0.23	1.5	<0.01	1.7	0.3	1.29	4	<0.5	0.4
B0054208	RC Chip	0.89	0.073	13	10	0.57	75	0.034	<20	1.09	0.037	0.19	2.0	<0.01	1.7	0.2	0.51	4	<0.5	0.2
B0054209	RC Chip	0.66	0.083	12	10	0.61	75	0.081	<20	1.13	0.041	0.13	2.9	<0.01	1.7	0.1	0.26	5	<0.5	0.2
B0054210	RC Chip	0.72	0.074	11	11	0.57	66	0.075	<20	1.07	0.041	0.11	2.8	<0.01	1.7	<0.1	0.22	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

WHI20000521.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0054211	RC Chip	4.13	0.016	1.6	37.8	13.9	38	0.3	5.2	7.3	491	2.50	31.7	3.8	6.3	14.8	130	0.2	2.7	3.1	36
B0054212	RC Chip	3.07	0.030	1.9	29.0	13.7	50	0.3	6.9	10.7	630	2.59	60.8	5.0	12.6	13.6	106	0.4	2.3	3.6	29
B0054213	RC Chip	3.34	0.011	1.7	20.8	8.9	42	0.2	5.5	7.4	496	2.72	58.2	4.9	9.4	15.6	153	0.2	2.3	1.4	36
B0054214	RC Chip	2.16	0.021	1.9	34.5	12.3	44	0.3	6.7	9.7	599	2.71	58.5	3.8	16.5	11.9	114	0.2	2.2	3.4	33
B0054215	RC Chip	1.68	0.032	1.3	8.5	12.1	47	0.4	6.5	9.8	555	3.83	109.9	3.2	17.0	14.2	77	0.1	1.7	3.6	44
B0054216	RC Chip	2.37	0.040	1.8	6.0	11.6	45	0.5	6.3	11.2	570	4.03	109.1	3.4	14.6	13.5	45	0.1	1.4	4.5	38
B0054217	RC Chip	2.36	0.023	3.4	6.5	9.2	50	0.2	7.9	14.2	681	2.66	67.3	3.1	5.8	11.9	72	0.3	1.9	1.9	38
B0054218	RC Chip	2.35	0.020	3.1	9.8	10.5	40	0.2	6.0	8.6	455	2.69	49.9	3.7	7.4	12.0	60	0.2	2.5	2.4	35
B0054219	RC Chip	2.15	0.023	2.5	10.3	11.0	34	0.3	6.3	8.7	423	3.09	48.3	2.5	12.3	11.3	42	0.1	2.5	2.9	32
B0054220	RC Chip	1.91	0.014	2.8	6.0	10.9	38	0.2	6.8	10.4	435	2.99	62.6	3.0	14.9	12.4	163	0.2	2.7	2.9	37
B0054221	RC Chip	2.11	0.011	3.5	8.7	9.9	36	0.1	6.9	10.3	467	2.73	45.9	3.1	4.4	12.5	91	0.1	2.7	1.5	40
B0054222	RC Chip	1.63	0.006	2.8	12.4	8.5	40	0.1	7.4	9.4	495	2.82	30.3	3.8	24.4	13.4	90	0.1	2.4	1.1	45
B0054223	RC Chip	1.66	<0.005	3.1	14.2	4.9	37	<0.1	7.4	9.5	515	2.92	12.0	3.5	<0.5	14.0	141	0.1	1.3	0.4	56
B0054224	RC Chip	1.14	0.008	2.3	8.3	7.3	42	0.1	6.7	11.5	545	2.73	26.9	2.8	3.1	12.8	148	<0.1	2.0	0.9	47
B0054225	RC Chip	1.84	<0.005	2.2	13.8	5.7	43	<0.1	7.9	10.1	560	2.92	18.6	4.2	1.7	14.8	264	0.2	1.3	0.7	54
B0054226	RC Chip	1.95	0.006	1.5	7.4	4.7	38	<0.1	7.2	8.7	532	3.02	8.8	3.0	0.6	13.9	211	<0.1	0.9	0.9	59
B0054227	RC Chip	2.30	0.012	1.5	3.6	4.3	45	0.1	6.8	10.3	664	3.15	20.0	2.8	4.7	13.3	96	<0.1	1.1	1.0	55
B0054228	RC Chip	2.12	0.010	1.7	4.8	4.6	41	<0.1	7.2	9.0	544	2.95	16.9	2.6	1.6	13.7	75	<0.1	1.6	0.8	57
B0054229	RC Chip	1.59	0.008	2.1	11.1	7.4	48	0.1	7.0	10.8	582	2.83	29.5	2.6	3.1	12.5	57	0.1	1.6	1.2	43
B0054230	RC Chip	1.54	0.009	1.9	6.1	7.9	47	0.1	6.6	9.8	558	2.69	30.3	2.6	49.3	12.3	39	0.1	1.7	0.8	42
B0054231	RC Chip	1.88	0.008	1.2	14.9	21.0	53	0.2	7.5	9.9	613	2.93	25.4	2.7	3.2	12.6	48	0.2	1.8	1.2	47
B0054232	RC Chip	1.46	0.029	1.4	16.5	10.7	50	0.2	6.0	9.1	572	2.86	29.3	2.7	7.4	13.5	75	0.1	1.9	1.8	44
B0054233	RC Chip	1.67	0.032	8.8	6.4	16.5	44	0.4	5.6	9.4	533	2.94	79.8	3.5	31.3	13.7	59	0.2	1.2	3.9	31
B0054234	RC Chip	1.64	0.032	2.1	3.7	12.5	41	0.3	4.8	9.9	555	3.00	55.8	4.2	20.1	14.4	104	0.2	0.6	2.6	33
B0054235	RC Chip	1.76	0.044	4.3	5.1	30.2	38	0.7	5.3	16.3	490	3.53	94.5	6.3	35.9	14.9	72	0.2	1.0	3.5	22
B0054236	RC Chip	1.61	0.076	1.4	7.0	17.8	40	0.6	5.7	15.9	524	3.52	82.1	8.4	53.5	16.5	365	0.5	0.9	4.9	28
B0054237	RC Chip	1.25	0.054	1.9	8.3	21.2	34	0.7	3.7	9.0	440	3.66	243.5	5.5	41.8	21.1	249	0.2	1.2	4.6	26
B0054238	RC Chip	1.30	0.046	1.6	11.8	13.5	32	0.4	3.0	5.1	297	2.99	112.3	6.4	155.5	20.3	175	0.1	0.9	3.1	29
B0054239	RC Chip	1.28	0.040	2.2	9.8	11.5	31	0.2	2.8	3.8	277	2.42	54.4	6.2	28.4	17.2	139	<0.1	0.6	2.5	27
B0054240	RC Chip	1.61	0.057	1.2	13.5	15.9	28	0.6	2.4	4.4	226	2.89	89.2	7.1	38.0	16.4	180	<0.1	0.7	3.7	28



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0054211	RC Chip	0.93	0.088	14	12	0.68	127	0.084	<20	1.32	0.058	0.12	2.1	<0.01	2.4	0.1	0.35	5	<0.5	<0.2
B0054212	RC Chip	1.18	0.118	15	12	0.75	108	0.040	<20	1.40	0.038	0.14	0.8	<0.01	2.2	0.1	0.65	5	<0.5	<0.2
B0054213	RC Chip	1.05	0.103	17	12	0.79	231	0.069	<20	1.39	0.054	0.25	0.8	<0.01	2.9	0.3	0.42	5	<0.5	<0.2
B0054214	RC Chip	1.16	0.091	18	14	0.76	131	0.071	<20	1.35	0.037	0.16	1.8	<0.01	2.5	0.2	0.53	5	<0.5	<0.2
B0054215	RC Chip	1.20	0.091	18	13	0.99	127	0.090	<20	1.45	0.037	0.14	2.3	<0.01	3.4	0.2	1.74	6	<0.5	<0.2
B0054216	RC Chip	1.48	0.086	15	12	1.00	73	0.052	<20	1.46	0.038	0.17	2.0	<0.01	3.0	0.3	2.15	6	<0.5	0.2
B0054217	RC Chip	1.25	0.103	15	13	0.90	72	0.083	<20	1.29	0.029	0.11	1.7	<0.01	2.6	0.2	0.95	6	<0.5	<0.2
B0054218	RC Chip	0.84	0.091	14	12	0.93	86	0.114	<20	1.33	0.042	0.14	2.6	<0.01	2.3	0.2	0.78	5	<0.5	<0.2
B0054219	RC Chip	0.84	0.089	12	11	0.92	74	0.093	<20	1.21	0.036	0.15	3.2	<0.01	1.9	0.2	1.61	5	<0.5	<0.2
B0054220	RC Chip	0.98	0.091	14	13	0.90	93	0.110	<20	1.30	0.048	0.11	2.8	<0.01	2.4	0.1	1.53	5	<0.5	<0.2
B0054221	RC Chip	0.92	0.095	15	13	0.90	86	0.122	<20	1.35	0.046	0.12	3.8	<0.01	2.4	0.1	0.82	5	<0.5	<0.2
B0054222	RC Chip	0.96	0.101	17	14	0.94	107	0.152	<20	1.49	0.057	0.14	3.2	<0.01	2.8	0.2	0.56	5	<0.5	<0.2
B0054223	RC Chip	1.01	0.092	20	14	0.90	264	0.167	<20	1.51	0.083	0.33	2.1	<0.01	3.7	0.3	0.19	5	<0.5	<0.2
B0054224	RC Chip	1.16	0.089	19	13	0.96	171	0.140	<20	1.52	0.067	0.24	2.8	<0.01	3.1	0.3	0.19	5	<0.5	<0.2
B0054225	RC Chip	1.14	0.099	22	14	0.90	310	0.130	<20	1.64	0.080	0.35	1.1	<0.01	4.1	0.4	0.32	6	<0.5	<0.2
B0054226	RC Chip	1.20	0.097	23	14	0.92	355	0.154	<20	1.61	0.098	0.47	2.3	<0.01	4.8	0.6	0.05	6	<0.5	<0.2
B0054227	RC Chip	1.32	0.095	20	15	0.96	142	0.085	<20	1.58	0.053	0.27	1.9	<0.01	4.8	0.4	0.35	6	<0.5	<0.2
B0054228	RC Chip	1.00	0.094	20	15	0.91	183	0.147	<20	1.49	0.085	0.28	3.3	<0.01	4.2	0.3	0.13	6	<0.5	<0.2
B0054229	RC Chip	1.09	0.088	17	14	0.92	92	0.100	<20	1.47	0.046	0.19	2.4	<0.01	3.3	0.3	0.36	6	<0.5	<0.2
B0054230	RC Chip	0.82	0.099	15	15	0.96	75	0.097	<20	1.47	0.045	0.16	2.2	<0.01	2.8	0.2	0.22	6	<0.5	<0.2
B0054231	RC Chip	1.00	0.097	19	16	1.06	84	0.096	<20	1.62	0.050	0.21	1.5	<0.01	3.6	0.3	0.18	6	<0.5	<0.2
B0054232	RC Chip	1.09	0.094	20	14	0.98	83	0.075	<20	1.66	0.053	0.24	1.1	<0.01	3.3	0.4	0.40	6	<0.5	<0.2
B0054233	RC Chip	1.70	0.088	17	11	0.82	73	0.016	<20	1.47	0.033	0.21	1.5	<0.01	2.3	0.3	1.25	5	<0.5	<0.2
B0054234	RC Chip	1.93	0.082	18	10	0.87	59	0.003	<20	1.82	0.027	0.15	0.3	<0.01	2.9	0.2	1.53	5	<0.5	<0.2
B0054235	RC Chip	1.79	0.073	21	8	0.72	61	0.003	<20	1.42	0.021	0.22	0.4	<0.01	2.2	0.3	2.35	5	<0.5	<0.2
B0054236	RC Chip	1.79	0.072	20	8	0.71	131	0.005	<20	1.56	0.028	0.19	0.3	<0.01	2.6	0.5	2.37	5	0.5	0.2
B0054237	RC Chip	1.28	0.084	37	7	0.41	140	0.004	<20	1.24	0.049	0.23	0.8	<0.01	2.2	0.4	1.53	4	<0.5	0.4
B0054238	RC Chip	1.04	0.083	40	7	0.43	73	0.002	<20	1.62	0.034	0.19	0.6	<0.01	2.3	0.3	0.74	5	<0.5	0.4
B0054239	RC Chip	1.00	0.063	19	7	0.46	59	0.002	<20	1.46	0.014	0.17	0.5	<0.01	2.1	0.3	0.66	5	<0.5	0.5
B0054240	RC Chip	2.42	0.077	17	6	0.40	83	0.002	<20	1.43	0.019	0.22	0.6	<0.01	2.1	0.4	1.92	5	<0.5	0.3



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Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0054241	RC Chip	1.42	0.039	1.1	20.5	12.9	36	0.4	3.8	10.4	281	3.00	80.1	6.0	31.3	15.7	106	<0.1	0.5	3.0	27
B0054242	RC Chip	2.15	0.089	1.8	41.6	18.4	40	0.9	4.3	14.6	318	3.27	118.0	8.8	56.0	13.4	60	0.1	0.7	6.0	28
B0054243	RC Chip	1.73	0.073	1.3	41.6	25.5	43	0.6	4.1	8.2	380	2.90	82.1	6.7	163.0	16.7	89	0.1	0.5	4.1	35
B695331	Rock DUP		0.092	1.2	39.8	24.8	39	0.6	3.5	8.5	382	2.90	81.8	6.7	144.6	16.7	87	0.1	0.6	3.9	35
B0054244	RC Chip	2.40	0.046	1.2	27.5	19.9	42	0.9	4.0	14.5	420	2.98	91.6	4.8	45.9	16.7	74	0.1	0.7	6.2	34
B0054245	RC Chip	1.66	0.083	1.3	41.3	14.2	40	0.7	4.3	15.9	398	2.87	64.1	4.7	61.5	15.8	262	<0.1	1.0	5.3	30
B0054246	RC Chip	2.21	0.069	1.5	20.7	9.4	31	0.3	3.8	21.5	394	3.11	100.4	4.4	50.8	23.1	118	<0.1	0.8	3.2	28
B0054247	RC Chip	2.39	0.034	1.0	26.2	16.7	40	0.5	3.8	16.1	411	2.66	81.7	4.1	21.8	18.9	117	0.1	0.9	3.6	26
B0054248	RC Chip	2.48	0.043	3.8	15.8	13.6	38	0.3	4.2	9.4	422	2.48	81.8	4.5	31.5	15.4	108	0.2	2.9	2.6	27
B0054249	RC Chip	2.47	0.012	1.5	14.3	10.0	30	0.2	3.2	4.6	343	1.88	31.8	5.1	8.2	14.4	497	0.2	3.0	1.0	27
B0054250	RC Chip	1.90	0.018	2.3	50.5	11.5	35	0.5	3.8	7.0	367	2.16	27.8	10.2	15.1	16.5	144	0.1	3.1	5.1	31
B0054251	RC Chip	1.94	0.049	1.2	56.3	17.7	39	1.3	4.3	18.2	443	2.73	45.8	5.3	19.3	16.9	118	0.2	2.8	14.8	38
B0054252	RC Chip	3.40	0.035	1.5	12.8	9.9	40	0.2	4.2	12.7	447	2.63	52.1	6.0	14.9	14.3	64	0.2	1.9	1.6	28
B0054253	RC Chip	2.46	0.046	1.2	58.4	15.6	41	1.6	3.8	11.0	451	2.55	40.0	4.7	21.0	15.9	64	0.2	1.9	11.5	35
B0054254	RC Chip	1.93	0.212	1.4	49.7	14.7	39	1.1	4.3	9.9	418	2.61	40.2	4.8	21.2	16.1	88	0.2	2.1	11.1	34
B0054255	RC Chip	2.10	0.155	1.7	60.0	13.5	42	0.8	4.3	11.0	492	2.54	33.5	4.0	19.7	15.0	51	<0.1	1.9	8.6	36
B0054256	RC Chip	1.47	0.120	2.4	76.1	50.7	40	0.7	4.6	7.2	454	2.86	36.5	5.2	19.4	16.0	52	0.2	2.7	7.3	45
B0054257	RC Chip	2.53	0.022	1.7	29.4	13.4	43	0.3	4.6	5.8	456	2.75	53.7	4.7	22.1	17.0	35	0.2	1.6	1.9	43
B0054258	RC Chip	1.91	0.058	2.6	175.6	18.9	44	2.4	4.3	14.3	462	2.68	40.2	6.1	58.5	15.8	53	0.2	1.3	19.8	38
B0054259	RC Chip	2.25	0.115	1.4	365.2	27.9	45	5.5	4.3	17.3	509	2.82	29.4	6.3	254.5	15.6	25	0.3	1.4	59.1	37
B0053566	RC Chip	1.02	0.046	1.4	21.3	32.7	43	0.4	9.8	8.2	489	2.19	24.2	3.2	4.8	12.3	40	0.2	1.8	4.9	26
B0053567	RC Chip	1.17	0.035	1.6	114.5	20.7	37	0.6	7.2	6.6	501	2.31	27.9	4.6	17.4	13.7	38	0.2	1.8	19.0	20
B0053568	RC Chip	1.08	0.033	2.1	98.0	15.4	39	0.6	7.1	6.7	536	2.56	31.3	5.7	12.8	16.0	40	0.1	2.3	28.8	26
B0053569	RC Chip	1.58	0.019	1.7	67.1	9.4	45	0.8	5.5	4.8	503	2.82	38.8	6.9	14.3	16.5	28	0.1	2.6	19.6	27
B0053570	RC Chip	2.39	0.088	1.4	115.8	8.0	44	1.2	4.7	7.0	491	2.64	22.6	3.1	56.9	15.6	21	<0.1	2.6	17.6	25
B0053571	RC Chip	2.52	0.025	1.2	47.9	5.3	45	0.4	4.2	8.7	523	2.98	21.5	4.1	9.9	16.7	19	<0.1	1.7	3.8	32
B0053572	RC Chip	2.58	0.011	1.3	23.9	7.1	43	0.2	4.6	5.1	505	2.50	11.3	3.7	7.8	16.5	26	<0.1	2.5	1.0	32
B0053573	RC Chip	2.69	0.014	1.2	54.5	11.0	49	0.6	4.9	6.8	536	2.68	14.4	3.6	11.9	16.7	31	0.3	3.2	3.1	38
B0053574	RC Chip	2.62	0.028	1.3	72.3	11.3	48	0.9	5.1	7.0	524	2.61	23.6	3.6	7.9	19.3	29	0.4	6.6	5.5	29
B0053575	RC Chip	2.02	0.035	1.2	130.5	11.3	42	1.1	4.2	6.3	494	2.30	22.6	3.0	13.6	19.2	28	0.3	5.4	9.7	23



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2	
B0054241	RC Chip	1.21	0.059	12	7	0.42	67	0.002	<20	1.44	0.010	0.20	0.7	<0.01	2.0	0.4	0.97	5	<0.5	0.3
B0054242	RC Chip	1.05	0.050	13	6	0.47	56	0.002	<20	1.60	0.013	0.19	0.6	<0.01	2.0	0.3	0.81	5	<0.5	0.5
B0054243	RC Chip	1.52	0.066	19	9	0.58	55	0.002	<20	2.08	0.023	0.19	0.4	<0.01	2.7	0.4	0.48	6	<0.5	0.4
B695331	Rock DUP	1.52	0.064	19	9	0.57	56	0.002	<20	2.09	0.023	0.19	0.4	<0.01	2.7	0.4	0.47	6	<0.5	0.5
B0054244	RC Chip	1.49	0.066	15	10	0.57	55	0.006	<20	1.98	0.028	0.18	0.6	<0.01	2.6	0.4	0.92	6	<0.5	0.5
B0054245	RC Chip	1.27	0.065	19	9	0.54	117	0.011	<20	1.94	0.040	0.21	0.5	<0.01	2.7	0.4	0.62	6	<0.5	0.3
B0054246	RC Chip	1.34	0.057	19	10	0.55	67	0.003	<20	1.48	0.033	0.18	0.7	<0.01	2.4	0.4	1.09	5	<0.5	0.3
B0054247	RC Chip	1.88	0.069	19	9	0.51	61	0.002	<20	1.64	0.024	0.16	0.4	<0.01	2.9	0.3	0.76	6	<0.5	<0.2
B0054248	RC Chip	1.90	0.072	15	8	0.59	57	0.014	<20	1.56	0.024	0.21	0.8	<0.01	2.6	0.5	0.84	5	0.5	<0.2
B0054249	RC Chip	1.35	0.047	9	8	0.45	134	0.044	<20	1.41	0.050	0.17	1.9	<0.01	1.6	0.4	0.31	4	<0.5	<0.2
B0054250	RC Chip	1.09	0.056	13	9	0.54	64	0.048	<20	1.24	0.053	0.17	2.3	<0.01	2.4	0.4	0.45	5	<0.5	<0.2
B0054251	RC Chip	1.21	0.065	14	11	0.71	55	0.059	<20	1.42	0.041	0.20	2.0	<0.01	3.2	0.5	0.75	6	<0.5	<0.2
B0054252	RC Chip	1.20	0.065	14	11	0.70	51	0.056	<20	1.32	0.046	0.15	2.4	<0.01	3.2	0.5	0.62	6	<0.5	<0.2
B0054253	RC Chip	1.17	0.064	13	11	0.67	51	0.044	<20	1.26	0.043	0.19	2.2	<0.01	2.9	0.4	0.62	6	<0.5	<0.2
B0054254	RC Chip	0.99	0.062	13	11	0.65	59	0.076	<20	1.23	0.044	0.15	3.3	<0.01	2.6	0.3	0.78	6	<0.5	0.2
B0054255	RC Chip	0.88	0.066	13	11	0.66	63	0.084	<20	1.34	0.046	0.16	3.0	<0.01	2.7	0.3	0.58	5	<0.5	<0.2
B0054256	RC Chip	0.81	0.066	21	13	0.69	97	0.114	<20	1.36	0.057	0.22	3.4	<0.01	3.5	0.4	0.36	5	<0.5	<0.2
B0054257	RC Chip	0.78	0.065	19	14	0.75	99	0.126	<20	1.29	0.057	0.29	3.9	<0.01	3.6	0.7	0.28	6	<0.5	<0.2
B0054258	RC Chip	0.90	0.064	16	13	0.70	71	0.058	<20	1.23	0.050	0.27	2.2	<0.01	3.3	0.5	0.49	6	<0.5	<0.2
B0054259	RC Chip	1.09	0.066	17	12	0.69	47	0.020	<20	1.16	0.038	0.18	3.2	<0.01	3.1	0.3	0.77	6	<0.5	0.3
B0053566	RC Chip	0.32	0.058	18	11	0.37	102	0.031	<20	1.12	0.026	0.18	0.5	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
B0053567	RC Chip	0.84	0.063	16	11	0.48	77	0.022	<20	1.04	0.028	0.13	2.3	<0.01	2.0	0.2	0.28	4	<0.5	<0.2
B0053568	RC Chip	1.18	0.072	17	13	0.54	77	0.024	<20	1.11	0.036	0.21	4.0	<0.01	2.3	0.3	0.48	5	<0.5	<0.2
B0053569	RC Chip	1.11	0.077	15	12	0.55	56	0.043	<20	1.15	0.034	0.21	3.7	<0.01	2.9	0.3	0.51	5	<0.5	<0.2
B0053570	RC Chip	0.80	0.068	11	11	0.67	61	0.054	<20	1.29	0.035	0.21	2.4	<0.01	2.2	0.3	0.18	5	<0.5	<0.2
B0053571	RC Chip	0.61	0.071	15	11	0.69	51	0.071	<20	1.36	0.039	0.18	2.6	<0.01	3.0	0.3	0.14	5	<0.5	<0.2
B0053572	RC Chip	0.84	0.070	14	12	0.68	61	0.084	<20	1.27	0.045	0.18	5.5	<0.01	2.4	0.3	0.12	5	<0.5	<0.2
B0053573	RC Chip	1.00	0.072	18	12	0.74	57	0.092	<20	1.28	0.044	0.15	3.6	<0.01	2.7	0.2	0.24	5	<0.5	<0.2
B0053574	RC Chip	1.08	0.068	14	11	0.68	67	0.087	<20	1.29	0.048	0.20	4.3	<0.01	2.4	0.3	0.37	5	<0.5	<0.2
B0053575	RC Chip	1.25	0.072	14	11	0.58	65	0.079	<20	1.16	0.038	0.21	3.8	<0.01	2.1	0.4	0.33	5	<0.5	<0.2



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Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	1
B0053576	RC Chip	2.62	0.145	2.5	43.1	9.0	47	0.6	4.9	7.5	526	2.64	27.8	2.4	6.8	16.6	37	0.1	2.5	3.6	24
B0053577	RC Chip	2.31	0.025	1.8	15.0	19.9	42	0.4	5.3	7.0	563	2.84	35.6	3.3	11.0	16.0	31	<0.1	1.5	3.0	27
B0053578	RC Chip	1.62	0.034	1.4	90.0	112.9	57	1.1	5.6	9.9	719	3.38	33.7	3.3	17.9	16.8	31	<0.1	1.2	9.5	30
B0053579	RC Chip	1.93	0.075	1.5	208.4	15.1	57	1.8	5.3	10.0	707	3.57	41.0	4.5	24.0	20.1	30	0.1	2.6	65.7	30
B0053580	RC Chip	2.30	0.024	1.2	95.4	5.0	46	0.4	4.6	8.1	545	2.56	17.8	4.4	66.3	16.5	33	<0.1	2.5	14.3	24
B0053581	RC Chip	1.82	0.040	1.4	17.7	9.4	39	0.4	4.1	8.9	506	2.22	16.5	4.8	17.2	15.8	28	0.1	3.0	15.7	19
B0053582	RC Chip	1.92	0.019	1.8	20.7	11.5	26	0.3	4.3	8.6	534	1.97	33.1	5.1	8.1	17.1	32	<0.1	2.0	1.0	13
B0053583	RC Chip	1.76	0.026	1.8	17.1	12.0	35	0.5	4.6	11.3	493	2.40	46.9	4.7	17.8	19.6	33	0.1	2.3	4.3	27
B0053584	RC Chip	1.68	0.043	2.5	4.1	7.6	31	0.4	4.3	5.6	634	2.72	66.9	5.5	28.9	17.8	28	0.1	2.1	2.5	19
B0053585	RC Chip	1.49	0.039	1.4	10.3	10.9	43	0.5	4.1	8.8	598	2.80	89.2	5.3	32.0	17.6	26	0.1	1.7	4.3	19
B0053586	RC Chip	5.62	0.016	1.3	19.6	9.1	39	0.3	4.6	6.8	524	2.62	13.9	7.2	7.6	19.0	118	<0.1	1.6	2.5	43
B0053587	RC Chip	1.82	0.018	2.1	39.1	10.0	43	0.4	5.4	7.7	472	2.72	35.9	7.4	5.7	20.1	87	0.1	1.9	7.3	41
B0053588	RC Chip	1.81	0.034	75.3	10.9	12.6	35	0.5	4.5	8.1	454	2.85	43.3	6.8	34.6	19.8	60	0.2	2.0	11.5	34
B0053589	RC Chip	1.61	0.046	3.3	9.2	9.4	40	0.3	5.1	6.3	487	2.78	30.0	7.1	245.2	18.7	38	<0.1	1.7	13.9	35
B0053590	RC Chip	2.75	0.024	2.1	8.3	8.8	39	0.3	5.0	7.4	432	2.85	45.2	6.4	22.4	20.3	46	<0.1	2.0	4.0	25
B0053591	RC Chip	2.06	0.024	2.0	31.3	9.5	46	0.3	5.5	5.8	477	2.67	16.6	5.1	27.5	19.6	29	0.1	2.1	2.8	38
B0053592	RC Chip	1.84	0.016	2.0	41.5	12.6	52	0.4	5.5	6.3	519	2.81	28.1	5.6	9.9	19.8	35	0.2	1.9	10.8	28
B0053593	RC Chip	4.29	0.012	1.9	9.1	7.4	41	0.2	5.4	6.2	475	2.86	18.1	9.4	8.5	20.4	33	<0.1	1.5	1.9	41
B0053594	RC Chip	2.12	0.034	2.1	16.6	11.3	48	0.4	5.1	9.3	494	2.85	47.1	10.9	24.7	22.1	29	0.2	1.5	2.9	38
B0053595	RC Chip	3.06	0.023	2.1	25.6	12.4	48	0.4	5.0	7.7	498	2.75	25.5	5.9	12.8	19.6	36	0.2	1.6	3.5	39
B0053596	RC Chip	1.36	<0.005	2.6	12.4	6.3	44	0.1	5.3	5.1	481	2.95	8.1	6.2	1.6	22.2	32	<0.1	1.1	1.0	48
B0053597	RC Chip	2.14	0.015	2.1	22.7	9.4	37	0.2	4.6	5.9	475	2.78	16.8	4.4	8.3	19.9	36	0.1	1.5	2.6	40
B0053598	RC Chip	2.77	0.055	2.6	22.5	9.1	44	0.3	5.5	7.1	474	2.85	29.4	4.3	16.0	20.9	31	<0.1	1.6	2.8	39
B0053599	RC Chip	1.67	0.074	2.4	31.4	7.0	43	0.3	5.1	9.6	470	3.17	45.7	3.6	14.9	18.7	35	<0.1	2.2	15.3	40
B0053600	RC Chip	1.95	0.060	2.4	20.4	6.4	39	0.2	12.7	13.5	469	3.02	37.7	3.1	11.7	20.8	36	<0.1	2.3	10.1	33
B0053601	RC Chip	1.66	0.018	7.4	43.8	8.2	47	0.4	6.0	10.2	480	3.12	22.1	4.6	11.4	19.0	31	0.2	1.8	8.5	43
B0053602	RC Chip	2.99	0.007	3.4	29.2	7.6	51	0.3	6.8	6.9	519	3.26	8.3	4.8	2.7	18.9	38	<0.1	1.0	4.7	50
B0053603	RC Chip	2.10	<0.005	2.7	15.5	6.6	41	0.2	5.2	6.2	441	2.80	7.0	4.4	2.4	19.3	32	<0.1	1.1	2.3	39
B0053604	RC Chip	2.64	0.009	2.7	11.1	10.0	43	0.2	5.2	8.1	462	2.85	16.1	4.8	3.4	19.7	28	<0.1	1.1	1.1	44
B0053605	RC Chip	3.10	0.032	2.5	26.6	17.7	51	0.7	5.5	20.6	491	2.95	37.9	5.0	39.1	20.4	32	0.2	1.6	4.1	41



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Project: Rude Creek
Report Date: February 22, 2021

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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0053576	RC Chip	1.21	0.070	14	11	0.65	65	0.046	22	1.21	0.037	0.20	3.3	<0.01	2.0	0.3	0.46	5	<0.5	<0.2
B0053577	RC Chip	1.23	0.077	17	16	0.65	58	0.016	22	1.23	0.039	0.22	1.3	<0.01	2.3	0.3	0.48	5	<0.5	<0.2
B0053578	RC Chip	1.47	0.075	19	13	0.82	62	0.011	23	1.47	0.038	0.27	5.2	<0.01	2.6	0.4	0.65	6	<0.5	<0.2
B0053579	RC Chip	1.47	0.071	16	11	0.99	54	0.034	<20	1.59	0.035	0.19	3.2	<0.01	2.6	0.3	0.74	7	<0.5	0.4
B0053580	RC Chip	1.50	0.071	16	10	0.62	80	0.031	<20	1.26	0.034	0.30	3.1	<0.01	2.4	0.5	0.40	6	<0.5	<0.2
B0053581	RC Chip	1.15	0.064	15	9	0.52	103	0.035	<20	1.29	0.028	0.41	1.8	<0.01	1.8	0.9	0.32	4	<0.5	<0.2
B0053582	RC Chip	1.46	0.067	15	9	0.36	116	0.016	<20	1.04	0.029	0.34	2.2	<0.01	1.6	0.5	0.15	3	<0.5	<0.2
B0053583	RC Chip	0.93	0.067	18	12	0.50	71	0.058	<20	1.02	0.041	0.18	4.1	<0.01	2.3	0.3	0.51	4	<0.5	<0.2
B0053584	RC Chip	0.50	0.065	19	10	0.49	67	0.004	<20	1.09	0.031	0.24	1.6	<0.01	1.5	0.3	0.19	4	<0.5	0.5
B0053585	RC Chip	0.88	0.064	17	8	0.67	69	0.022	<20	1.17	0.026	0.20	2.2	<0.01	1.7	0.3	0.73	4	<0.5	0.4
B0053586	RC Chip	0.85	0.063	24	13	0.71	251	0.111	<20	1.15	0.057	0.27	3.5	<0.01	3.5	0.3	0.13	5	<0.5	<0.2
B0053587	RC Chip	0.68	0.068	25	17	0.70	200	0.122	<20	1.08	0.057	0.23	5.4	<0.01	3.1	0.3	0.34	5	<0.5	<0.2
B0053588	RC Chip	0.82	0.068	21	15	0.66	94	0.087	<20	1.07	0.045	0.15	5.1	<0.01	2.9	0.2	0.89	5	<0.5	0.3
B0053589	RC Chip	0.85	0.073	17	14	0.73	51	0.042	<20	1.13	0.037	0.12	2.3	<0.01	2.4	0.2	0.68	5	<0.5	<0.2
B0053590	RC Chip	1.06	0.060	13	13	0.58	67	0.054	<20	0.98	0.046	0.13	3.5	<0.01	1.9	0.2	1.07	4	<0.5	0.2
B0053591	RC Chip	0.69	0.069	18	16	0.72	71	0.078	<20	1.06	0.047	0.14	4.0	<0.01	2.3	0.2	0.33	5	<0.5	<0.2
B0053592	RC Chip	0.74	0.081	13	15	0.74	66	0.078	<20	1.09	0.034	0.15	6.9	<0.01	2.2	0.2	0.35	5	<0.5	<0.2
B0053593	RC Chip	0.58	0.081	20	16	0.74	219	0.125	<20	1.04	0.054	0.27	5.9	<0.01	2.8	0.3	0.17	5	<0.5	<0.2
B0053594	RC Chip	0.61	0.080	22	16	0.72	187	0.123	<20	1.00	0.047	0.21	6.6	<0.01	2.7	0.3	0.45	5	<0.5	0.3
B0053595	RC Chip	0.67	0.074	21	16	0.75	130	0.110	<20	1.10	0.053	0.19	5.4	<0.01	2.4	0.2	0.26	5	<0.5	0.2
B0053596	RC Chip	0.60	0.076	26	19	0.73	281	0.148	<20	1.08	0.074	0.38	4.6	<0.01	3.6	0.5	0.05	5	<0.5	<0.2
B0053597	RC Chip	0.66	0.066	18	17	0.72	126	0.108	<20	1.12	0.059	0.23	3.5	<0.01	2.2	0.3	0.16	5	<0.5	<0.2
B0053598	RC Chip	0.56	0.075	19	18	0.71	128	0.109	<20	1.09	0.050	0.22	4.5	<0.01	2.5	0.3	0.20	5	<0.5	<0.2
B0053599	RC Chip	0.59	0.076	16	16	0.76	111	0.106	<20	1.14	0.052	0.21	4.9	<0.01	2.7	0.3	0.45	6	<0.5	<0.2
B0053600	RC Chip	0.62	0.082	15	17	0.74	54	0.086	<20	1.10	0.040	0.15	27.9	<0.01	2.1	0.3	0.49	5	<0.5	<0.2
B0053601	RC Chip	0.61	0.077	18	17	0.76	162	0.117	<20	1.16	0.059	0.33	7.9	<0.01	2.8	0.5	0.17	5	<0.5	<0.2
B0053602	RC Chip	0.65	0.078	21	20	0.77	309	0.164	<20	1.15	0.075	0.47	9.2	<0.01	3.0	0.6	0.07	6	<0.5	<0.2
B0053603	RC Chip	0.60	0.075	23	19	0.66	297	0.150	30	1.03	0.084	0.44	5.4	<0.01	2.7	0.5	<0.05	4	<0.5	<0.2
B0053604	RC Chip	0.67	0.084	25	19	0.65	311	0.145	<20	1.03	0.070	0.40	9.6	<0.01	2.7	0.5	0.10	5	<0.5	<0.2
B0053605	RC Chip	0.76	0.074	20	19	0.67	146	0.117	<20	1.16	0.059	0.27	50.3	0.01	3.4	0.5	0.21	6	<0.5	0.6



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Project: Rude Creek
Report Date: February 22, 2021

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CERTIFICATE OF ANALYSIS

WHI20000521.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0053606	RC Chip	2.64	0.040	2.3	24.1	20.6	47	0.7	5.0	8.3	508	3.16	52.2	3.0	36.6	18.3	35	0.2	1.6	4.0	43
B0053607	RC Chip	2.35	0.082	2.0	8.4	17.0	56	0.5	4.5	9.8	571	2.76	55.1	2.7	50.6	17.3	29	0.2	0.9	3.5	26
B0053608	RC Chip	2.35	0.063	2.7	3.4	33.9	40	0.5	3.4	11.7	565	2.43	67.4	3.6	54.6	18.1	29	0.2	0.7	3.2	16
B0053609	RC Chip	2.49	0.015	1.7	4.2	19.9	39	0.2	3.3	4.9	510	1.85	18.3	2.4	8.6	20.0	32	<0.1	0.5	1.0	13
B0053610	RC Chip	1.56	0.048	2.6	4.6	46.7	31	0.6	5.6	5.8	456	1.73	23.6	3.9	34.8	21.3	31	0.1	0.6	2.3	11
B0053611	RC Chip	2.74	0.026	3.2	3.5	14.0	31	0.3	3.4	4.7	464	1.65	13.9	5.0	14.3	21.7	42	<0.1	0.4	1.1	11
B0053612	RC Chip	2.04	0.015	2.5	2.6	9.6	31	0.3	3.8	7.2	485	1.82	15.8	4.5	10.4	22.2	32	<0.1	0.5	1.8	9
B0053613	RC Chip	2.68	0.014	2.9	1.6	5.4	30	<0.1	3.9	4.3	463	1.52	10.9	4.4	5.4	22.4	43	<0.1	0.4	0.6	10
B0053614	RC Chip	2.38	0.022	2.3	8.9	10.7	33	0.3	4.4	3.7	435	1.57	13.9	4.2	16.6	21.1	36	<0.1	0.5	1.9	8
B0053615	RC Chip	2.86	0.014	1.1	1.6	7.2	27	0.2	2.8	3.4	411	1.65	12.3	2.5	9.2	18.6	27	<0.1	0.5	1.2	9
B0053616	RC Chip	2.70	0.015	0.7	1.2	5.9	29	0.1	2.7	4.7	374	1.53	10.7	2.2	8.3	18.4	25	<0.1	0.5	1.1	8
B0053617	RC Chip	2.40	0.012	1.0	4.8	5.8	29	<0.1	4.2	4.8	385	1.51	7.4	2.1	4.7	17.8	29	<0.1	0.5	0.7	8
B0053618	RC Chip	2.39	0.010	1.3	2.0	9.1	31	0.1	3.8	3.8	461	1.63	8.4	2.8	4.5	20.7	37	<0.1	0.5	0.7	9
B0053619	RC Chip	1.05	0.007	2.8	3.9	7.3	36	0.1	4.3	9.2	526	1.67	7.4	6.5	8.1	22.0	54	<0.1	0.4	0.6	11
B0053620	RC Chip	1.15	0.012	1.9	6.2	14.8	36	0.4	3.6	4.6	526	1.85	10.6	3.5	8.9	22.4	32	<0.1	0.5	1.5	10
B0053621	RC Chip	2.10	0.007	1.5	4.8	13.0	37	0.2	3.3	4.4	544	1.73	10.8	3.5	4.1	22.5	36	<0.1	0.4	0.8	10
B0053622	RC Chip	1.55	0.011	1.8	11.8	16.6	35	0.3	3.6	5.6	528	1.75	10.7	4.4	5.6	22.4	41	0.1	0.5	1.4	11
B0053623	RC Chip	1.70	<0.005	1.4	2.2	6.9	32	<0.1	3.4	2.2	523	1.68	2.8	3.2	<0.5	20.8	43	0.1	0.2	0.3	10



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0053606	RC Chip	0.49	0.076	19	15	0.73	73	0.076	<20	1.27	0.047	0.21	4.4	<0.01	3.1	0.4	0.19	5	<0.5	0.4
B0053607	RC Chip	0.62	0.101	24	12	0.63	65	0.011	<20	1.26	0.041	0.24	2.5	<0.01	2.1	0.3	<0.05	6	<0.5	0.7
B0053608	RC Chip	0.92	0.126	27	8	0.47	73	0.005	<20	1.10	0.028	0.33	1.1	<0.01	1.5	0.4	0.07	6	<0.5	0.4
B0053609	RC Chip	1.16	0.078	28	10	0.41	73	0.005	<20	1.00	0.033	0.32	0.9	<0.01	1.2	0.4	<0.05	5	<0.5	<0.2
B0053610	RC Chip	0.97	0.072	25	10	0.35	68	0.003	<20	0.83	0.031	0.25	9.7	<0.01	1.1	0.2	0.07	5	<0.5	0.2
B0053611	RC Chip	1.37	0.068	27	11	0.35	68	0.004	<20	0.84	0.040	0.30	1.6	<0.01	0.9	0.3	0.16	5	<0.5	<0.2
B0053612	RC Chip	1.02	0.072	29	10	0.35	55	0.004	<20	0.79	0.035	0.24	4.6	<0.01	1.0	0.2	0.11	4	<0.5	<0.2
B0053613	RC Chip	1.38	0.071	29	11	0.35	60	0.004	<20	0.81	0.039	0.28	4.1	<0.01	1.0	0.3	0.10	5	<0.5	<0.2
B0053614	RC Chip	0.99	0.066	26	9	0.32	55	0.002	<20	0.75	0.035	0.24	1.3	<0.01	0.8	0.2	0.13	4	<0.5	<0.2
B0053615	RC Chip	0.70	0.064	29	6	0.35	57	0.002	<20	0.85	0.032	0.25	0.5	<0.01	0.8	0.2	<0.05	4	<0.5	<0.2
B0053616	RC Chip	0.66	0.063	28	5	0.34	45	0.002	<20	0.81	0.024	0.23	0.3	<0.01	0.6	0.2	<0.05	4	<0.5	<0.2
B0053617	RC Chip	0.86	0.062	27	6	0.34	50	0.003	<20	0.78	0.030	0.23	0.3	<0.01	0.8	0.2	<0.05	4	<0.5	<0.2
B0053618	RC Chip	1.11	0.069	30	7	0.37	46	0.003	<20	0.83	0.026	0.22	0.7	<0.01	0.9	0.2	<0.05	4	<0.5	<0.2
B0053619	RC Chip	1.66	0.066	29	13	0.38	51	0.003	<20	0.85	0.033	0.25	15.7	<0.01	1.1	0.2	0.08	5	<0.5	<0.2
B0053620	RC Chip	0.80	0.061	32	10	0.39	52	0.003	<20	0.92	0.031	0.24	0.8	<0.01	0.9	0.2	<0.05	4	<0.5	<0.2
B0053621	RC Chip	0.92	0.071	33	10	0.40	48	0.003	<20	0.88	0.030	0.23	0.7	<0.01	0.9	0.2	<0.05	5	<0.5	<0.2
B0053622	RC Chip	1.07	0.072	32	10	0.42	52	0.004	<20	0.91	0.030	0.23	1.1	<0.01	1.0	0.2	<0.05	5	<0.5	<0.2
B0053623	RC Chip	1.35	0.066	31	10	0.41	42	0.004	<20	0.85	0.033	0.21	0.9	<0.01	0.9	0.2	<0.05	4	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0054081	RC Chip	2.25	0.033	3.0	6.9	33.6	39	0.3	5.2	13.7	514	3.05	35.1	4.0	111.8	18.0	52	0.1	1.5	1.0	38
REP B0054081	QC			3.0	6.6	34.0	38	0.2	5.0	13.3	519	3.14	36.3	3.7	64.2	18.2	51	<0.1	1.5	0.9	38
B0054083	RC Chip	2.14	0.008	4.0	8.0	71.4	32	0.3	4.5	8.0	439	2.35	24.0	3.1	5.3	16.9	67	0.2	2.4	0.6	30
REP B0054083	QC		0.008																		
B0054217	RC Chip	2.36	0.023	3.4	6.5	9.2	50	0.2	7.9	14.2	681	2.66	67.3	3.1	5.8	11.9	72	0.3	1.9	1.9	38
REP B0054217	QC			3.4	6.2	8.6	47	0.2	7.6	14.0	678	2.67	62.7	2.8	5.0	11.3	70	0.3	1.8	1.8	37
B0054241	RC Chip	1.42	0.039	1.1	20.5	12.9	36	0.4	3.8	10.4	281	3.00	80.1	6.0	31.3	15.7	106	<0.1	0.5	3.0	27
REP B0054241	QC		0.043																		
B0054251	RC Chip	1.94	0.049	1.2	56.3	17.7	39	1.3	4.3	18.2	443	2.73	45.8	5.3	19.3	16.9	118	0.2	2.8	14.8	38
REP B0054251	QC			1.3	54.1	17.0	39	1.3	4.0	18.0	440	2.74	45.0	5.3	35.5	16.6	114	0.2	2.7	14.9	36
B0054258	RC Chip	1.91	0.058	2.6	175.6	18.9	44	2.4	4.3	14.3	462	2.68	40.2	6.1	58.5	15.8	53	0.2	1.3	19.8	38
REP B0054258	QC		0.057																		
B0053592	RC Chip	1.84	0.016	2.0	41.5	12.6	52	0.4	5.5	6.3	519	2.81	28.1	5.6	9.9	19.8	35	0.2	1.9	10.8	28
REP B0053592	QC			1.9	39.8	12.5	51	0.5	5.5	6.3	535	2.86	27.0	5.1	24.6	19.5	35	0.2	1.8	11.2	29
REP B0053618	QC		0.011																		
Core Reject Duplicates																					
B0054211	RC Chip	4.13	0.016	1.6	37.8	13.9	38	0.3	5.2	7.3	491	2.50	31.7	3.8	6.3	14.8	130	0.2	2.7	3.1	36
DUP B0054211	QC		0.019	1.9	38.9	15.1	42	0.3	5.5	7.1	500	2.55	33.4	3.9	5.8	14.9	134	0.2	2.8	3.5	36
B0054244	RC Chip	2.40	0.046	1.2	27.5	19.9	42	0.9	4.0	14.5	420	2.98	91.6	4.8	45.9	16.7	74	0.1	0.7	6.2	34
DUP B0054244	QC		0.049	1.1	26.0	18.5	41	0.9	3.8	13.8	411	2.95	86.0	4.3	37.4	15.6	70	0.1	0.7	5.6	33
B0053584	RC Chip	1.68	0.043	2.5	4.1	7.6	31	0.4	4.3	5.6	634	2.72	66.9	5.5	28.9	17.8	28	0.1	2.1	2.5	19
DUP B0053584	QC		0.064	2.4	4.2	7.9	33	0.4	4.5	5.8	641	2.72	67.7	5.6	39.9	18.3	28	<0.1	2.2	2.4	19
B0053618	RC Chip	2.39	0.010	1.3	2.0	9.1	31	0.1	3.8	3.8	461	1.63	8.4	2.8	4.5	20.7	37	<0.1	0.5	0.7	9
DUP B0053618	QC		0.008	1.3	2.2	8.8	34	0.1	3.8	3.8	454	1.61	8.1	2.8	6.8	21.1	38	<0.1	0.5	0.7	9
Reference Materials																					
STD BVGEO01	Standard			10.6	4413.3	193.6	1714	2.6	160.0	24.8	730	3.66	122.4	4.1	226.3	17.0	55	6.6	2.8	26.6	72
STD BVGEO01	Standard			11.1	4433.4	205.9	1814	2.7	161.6	25.1	706	3.90	136.1	4.1	238.4	16.1	60	6.9	3.0	28.1	75
STD DS11	Standard			14.2	147.5	134.7	339	1.6	78.7	14.2	994	3.05	45.8	2.6	90.7	8.7	65	2.3	9.0	11.6	46



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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
B0054081	RC Chip	1.06	0.072	12	19	0.67	78	0.073	<20	1.20	0.040	0.16	2.1	<0.01	2.4	0.2	0.62	5	<0.5	<0.2
REP B0054081	QC	1.06	0.074	13	20	0.69	79	0.073	<20	1.19	0.041	0.17	2.2	<0.01	2.6	0.2	0.61	5	<0.5	<0.2
B0054083	RC Chip	0.66	0.067	10	17	0.52	56	0.072	<20	1.02	0.049	0.10	4.0	<0.01	1.6	0.1	0.11	4	<0.5	<0.2
REP B0054083	QC																			
B0054217	RC Chip	1.25	0.103	15	13	0.90	72	0.083	<20	1.29	0.029	0.11	1.7	<0.01	2.6	0.2	0.95	6	<0.5	<0.2
REP B0054217	QC	1.23	0.100	14	12	0.91	69	0.078	<20	1.26	0.030	0.11	1.7	<0.01	2.7	0.2	0.97	5	<0.5	<0.2
B0054241	RC Chip	1.21	0.059	12	7	0.42	67	0.002	<20	1.44	0.010	0.20	0.7	<0.01	2.0	0.4	0.97	5	<0.5	0.3
REP B0054241	QC																			
B0054251	RC Chip	1.21	0.065	14	11	0.71	55	0.059	<20	1.42	0.041	0.20	2.0	<0.01	3.2	0.5	0.75	6	<0.5	<0.2
REP B0054251	QC	1.19	0.064	12	11	0.71	52	0.055	<20	1.39	0.042	0.19	2.1	<0.01	2.8	0.5	0.81	6	<0.5	<0.2
B0054258	RC Chip	0.90	0.064	16	13	0.70	71	0.058	<20	1.23	0.050	0.27	2.2	<0.01	3.3	0.5	0.49	6	<0.5	<0.2
REP B0054258	QC																			
B0053592	RC Chip	0.74	0.081	13	15	0.74	66	0.078	<20	1.09	0.034	0.15	6.9	<0.01	2.2	0.2	0.35	5	<0.5	<0.2
REP B0053592	QC	0.77	0.082	14	14	0.76	66	0.069	<20	1.11	0.033	0.16	6.6	<0.01	2.0	0.2	0.37	5	<0.5	0.2
REP B0053618	QC																			
Core Reject Duplicates																				
B0054211	RC Chip	0.93	0.088	14	12	0.68	127	0.084	<20	1.32	0.058	0.12	2.1	<0.01	2.4	0.1	0.35	5	<0.5	<0.2
DUP B0054211	QC	0.96	0.092	14	13	0.69	123	0.093	<20	1.35	0.057	0.12	2.1	<0.01	2.7	0.1	0.35	5	<0.5	<0.2
B0054244	RC Chip	1.49	0.066	15	10	0.57	55	0.006	<20	1.98	0.028	0.18	0.6	<0.01	2.6	0.4	0.92	6	<0.5	0.5
DUP B0054244	QC	1.48	0.059	14	9	0.55	51	0.006	<20	1.96	0.027	0.18	0.7	<0.01	2.4	0.3	0.92	5	<0.5	0.6
B0053584	RC Chip	0.50	0.065	19	10	0.49	67	0.004	<20	1.09	0.031	0.24	1.6	<0.01	1.5	0.3	0.19	4	<0.5	0.5
DUP B0053584	QC	0.51	0.064	19	10	0.49	67	0.005	<20	1.10	0.029	0.24	1.7	<0.01	1.5	0.3	0.18	4	<0.5	0.5
B0053618	RC Chip	1.11	0.069	30	7	0.37	46	0.003	<20	0.83	0.026	0.22	0.7	<0.01	0.9	0.2	<0.05	4	<0.5	<0.2
DUP B0053618	QC	1.07	0.070	30	7	0.36	46	0.003	<20	0.81	0.025	0.21	0.6	<0.01	0.8	0.2	<0.05	4	<0.5	<0.2
Reference Materials																				
STD BVGE001	Standard	1.32	0.072	26	166	1.28	358	0.245	<20	2.24	0.181	0.87	4.2	0.09	5.6	0.7	0.67	7	4.5	1.0
STD BVGE001	Standard	1.29	0.074	27	148	1.27	391	0.238	<20	2.17	0.183	0.98	4.6	0.09	6.1	0.7	0.72	8	4.4	0.9
STD DS11	Standard	1.03	0.067	18	57	0.83	409	0.087	<20	1.08	0.068	0.38	2.9	0.26	3.0	4.9	0.29	5	1.9	4.4



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
STD DS11	Standard			14.9	150.2	148.2	341	1.8	82.5	14.3	1043	3.09	48.9	2.7	91.7	8.0	71	2.8	8.6	12.8	48	
STD OREAS262	Standard			0.7	116.4	57.7	157	0.5	64.6	28.1	527	3.37	38.5	1.3	79.5	10.7	37	0.6	4.4	1.1	21	
STD OREAS262	Standard			0.6	111.7	61.1	158	0.5	65.4	27.8	551	3.25	38.6	1.3	71.5	9.7	40	0.8	4.2	1.1	21	
STD OREAS262	Standard			0.6	110.6	55.7	148	0.4	65.3	27.8	550	3.24	36.6	1.1	60.7	9.8	34	0.6	3.3	1.0	21	
STD OREAS262	Standard			0.6	128.0	62.8	172	0.5	68.4	28.8	534	3.44	39.1	1.3	66.6	10.8	41	0.8	4.9	1.1	20	
STD OXB130	Standard		0.123																			
STD OXB130	Standard		0.121																			
STD OXG141	Standard		0.924																			
STD OXG141	Standard		0.959																			
STD OXN155	Standard		7.822																			
STD OXN155	Standard		7.976																			
STD OXG141 Expected			0.93																			
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.3	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.3	<1	<0.1	<0.1	<0.1	<1	
Prep Wash																						
ROCK-WHI	Prep Blank		0.005	0.8	3.2	1.6	24	<0.1	1.3	3.7	418	1.93	1.4	0.5	<0.5	2.6	25	<0.1	<0.1	0.2	22	
ROCK-WHI	Prep Blank		<0.005	0.8	2.2	1.7	31	<0.1	1.0	3.7	417	1.94	1.2	0.5	0.9	3.0	22	<0.1	0.3	0.1	22	



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
STD DS11	Standard	1.04	0.065	17	60	0.84	451	0.091	<20	1.09	0.071	0.39	3.0	0.29	3.4	5.3	0.28	5	2.1	4.7
STD OREAS262	Standard	2.92	0.039	16	42	1.17	264	0.003	<20	1.19	0.070	0.29	0.2	0.17	3.8	0.5	0.29	4	0.7	<0.2
STD OREAS262	Standard	3.07	0.043	15	42	1.19	281	0.003	<20	1.10	0.068	0.28	0.1	0.17	3.1	0.4	0.27	4	<0.5	0.3
STD OREAS262	Standard	3.04	0.043	15	40	1.18	254	0.003	<20	1.14	0.066	0.29	0.1	0.15	3.3	0.5	0.26	4	<0.5	0.2
STD OREAS262	Standard	2.90	0.040	14	41	1.20	259	0.004	<20	1.09	0.072	0.29	0.3	0.17	3.5	0.5	0.27	4	<0.5	0.2
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																				
ROCK-WHI	Prep Blank	0.57	0.036	7	3	0.42	67	0.079	<20	0.86	0.091	0.10	0.2	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	0.55	0.040	6	3	0.40	63	0.079	<20	0.82	0.087	0.09	0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
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885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: February 04, 2021
Report Date: February 22, 2021
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CERTIFICATE OF ANALYSIS

WHI20000522.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 139

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	135	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	135	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	135	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	135	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

WHI20000522.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0053631	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053624	RC Chip	1.67	0.006	1.9	3.9	9.8	38	0.1	3.8	2.1	575	1.73	2.3	4.1	2.6	17.8	48	<0.1	0.3	0.3	11
B0053625	RC Chip	1.56	<0.005	2.5	4.3	7.2	39	<0.1	4.2	2.2	545	1.76	2.2	5.3	0.7	17.5	49	<0.1	0.3	0.2	11
B0053626	RC Chip	1.64	0.009	1.6	10.4	10.5	41	0.2	5.1	5.4	564	1.71	11.2	3.2	5.4	17.8	33	<0.1	0.4	0.6	10
B0053627	RC Chip	1.85	0.027	1.7	5.2	25.2	36	0.6	3.2	6.3	551	2.00	19.0	5.2	19.1	16.8	40	0.2	0.6	2.5	11
B0053628	RC Chip	2.10	0.058	2.0	31.5	30.4	45	0.7	3.3	9.0	622	2.43	28.0	3.9	18.8	13.6	39	0.2	1.5	3.7	14
B0053629	RC Chip	2.28	0.193	3.3	9.5	60.0	45	1.6	3.3	21.0	549	3.03	44.9	4.4	711.6	11.0	29	0.2	1.4	4.9	17
B0053630	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053632	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053851	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053852	RC Chip	1.86	0.027	1.9	33.1	58.6	37	0.7	7.0	8.4	473	2.60	38.8	5.3	11.4	16.0	53	0.3	2.6	5.6	25
B0053853	RC Chip	2.48	0.026	1.8	90.1	22.2	44	0.5	7.2	8.8	639	2.98	17.9	5.1	21.9	19.5	36	0.2	1.8	6.2	41
B0053854	RC Chip	2.65	0.028	1.0	47.5	29.8	53	0.6	5.8	10.1	718	3.18	58.6	6.5	41.4	16.7	39	0.3	1.8	5.4	37
B0053855	RC Chip	2.26	0.044	10.6	36.2	29.2	37	0.8	3.3	3.0	331	3.10	80.8	6.8	29.5	16.1	24	0.2	1.8	4.7	18
B0053856	RC Chip	1.38	0.036	1.4	58.1	8.8	37	0.7	4.1	3.3	337	2.47	28.3	4.4	10.8	14.0	125	<0.1	0.9	4.6	21
B0053857	RC Chip	1.51	0.066	2.4	108.1	129.0	20	10.3	2.3	2.5	193	3.56	117.4	2.8	47.9	13.8	165	<0.1	3.5	23.6	18
B0053858	RC Chip	1.75	0.028	0.9	97.2	20.5	21	1.4	1.8	1.6	173	3.58	121.7	4.2	19.5	18.1	132	<0.1	1.0	6.1	19
B0053859	RC Chip	1.18	0.582	1.0	47.7	271.1	19	11.7	1.8	2.5	131	3.79	239.4	7.0	195.0	18.2	39	<0.1	1.6	77.9	11
B0053860	RC Chip	1.61	0.028	1.1	41.4	11.5	44	1.0	3.8	4.4	471	2.92	45.9	8.3	30.6	15.7	22	<0.1	0.9	9.5	16
B0053861	RC Chip	1.81	0.040	1.2	29.4	6.5	41	0.4	5.1	11.8	655	2.51	22.6	5.9	13.4	16.9	21	0.2	1.0	5.1	21
B0053862	RC Chip	2.02	0.028	1.3	34.9	8.7	46	0.3	4.8	13.0	638	2.52	16.7	4.3	8.2	16.0	51	0.3	1.5	2.6	29
B0053863	RC Chip	2.57	0.030	1.2	23.6	9.7	47	0.4	4.7	9.7	613	2.61	22.9	7.4	10.8	16.7	41	0.3	1.8	4.8	32
B0053864	RC Chip	2.26	0.048	1.0	27.0	9.2	43	0.3	4.3	8.5	582	2.32	23.6	2.9	17.4	15.5	96	0.3	1.3	4.6	27
B0053865	RC Chip	1.96	0.122	1.3	127.2	109.0	41	9.3	4.9	13.6	776	3.33	43.0	6.3	76.3	14.4	27	0.8	1.7	105.0	32
B0053866	RC Chip	1.82	0.032	1.6	111.9	62.0	40	1.9	4.5	8.1	640	2.95	53.7	4.4	16.6	14.6	31	0.4	1.6	35.5	41
B0053867	RC Chip	2.11	0.019	1.6	56.5	10.7	42	0.5	5.0	8.6	495	3.01	17.9	2.9	5.7	14.2	34	0.2	2.0	7.5	42
B0053868	RC Chip	2.00	0.015	1.7	46.2	9.4	41	0.6	5.0	8.3	484	2.95	15.4	4.5	2.7	14.6	35	0.2	1.2	5.4	46
B0053869	RC Chip	1.83	0.013	1.8	35.6	7.2	40	0.6	4.9	6.7	469	2.99	12.1	3.8	3.3	14.9	32	0.1	1.3	3.9	46
B0053870	RC Chip	2.09	<0.005	1.9	8.9	6.0	38	0.2	4.8	4.6	450	2.84	5.8	3.6	2.1	14.2	32	<0.1	0.9	1.4	47
B0053871	RC Chip	1.89	0.010	1.7	25.9	10.0	47	0.4	5.6	9.4	559	3.14	25.2	3.7	4.4	14.9	32	0.2	2.4	1.7	43



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Project: Rude Creek
Report Date: February 22, 2021

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CERTIFICATE OF ANALYSIS

WHI20000522.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0053631	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053624	RC Chip	1.48	0.064	29	12	0.42	48	0.004	<20	0.94	0.035	0.27	1.3	<0.01	0.9	0.2	<0.05	5	<0.5	<0.2
B0053625	RC Chip	1.57	0.063	29	12	0.40	50	0.005	<20	0.93	0.038	0.29	1.9	<0.01	0.9	0.3	<0.05	5	<0.5	<0.2
B0053626	RC Chip	1.15	0.060	27	10	0.34	55	0.003	<20	0.89	0.034	0.27	0.7	<0.01	0.8	0.3	<0.05	5	<0.5	<0.2
B0053627	RC Chip	1.30	0.064	18	9	0.34	65	0.002	<20	0.89	0.029	0.27	1.1	<0.01	0.9	0.3	0.29	5	<0.5	<0.2
B0053628	RC Chip	1.49	0.089	17	8	0.44	59	0.003	<20	1.06	0.024	0.29	0.5	<0.01	1.0	0.3	0.23	6	<0.5	<0.2
B0053629	RC Chip	0.93	0.110	18	8	0.49	54	0.009	<20	1.25	0.026	0.33	0.7	<0.01	1.3	0.4	0.23	6	<0.5	<0.2
B0053630	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053632	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053851	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0053852	RC Chip	0.28	0.060	16	11	0.43	97	0.040	<20	1.03	0.047	0.19	0.8	<0.01	1.9	0.2	0.10	4	<0.5	0.2
B0053853	RC Chip	0.45	0.067	19	14	0.65	81	0.072	<20	1.23	0.046	0.18	3.1	<0.01	3.3	0.2	0.08	6	<0.5	<0.2
B0053854	RC Chip	0.31	0.068	18	11	0.60	89	0.024	<20	1.28	0.047	0.20	0.7	<0.01	2.8	0.2	0.16	6	<0.5	0.3
B0053855	RC Chip	0.08	0.096	17	9	0.51	101	0.005	<20	1.31	0.055	0.25	1.5	<0.01	1.5	0.2	0.33	5	<0.5	0.4
B0053856	RC Chip	0.12	0.067	19	9	0.51	101	0.003	<20	1.37	0.028	0.20	0.5	<0.01	1.8	0.2	0.07	5	<0.5	<0.2
B0053857	RC Chip	0.13	0.046	18	8	0.25	159	0.002	<20	0.96	0.085	0.35	0.8	<0.01	1.2	0.4	0.59	4	<0.5	0.3
B0053858	RC Chip	0.16	0.041	18	7	0.30	293	0.002	<20	1.19	0.073	0.48	0.7	<0.01	1.7	0.4	0.77	5	<0.5	0.3
B0053859	RC Chip	0.15	0.052	19	6	0.17	286	0.001	<20	0.75	0.061	0.52	1.2	<0.01	1.3	0.4	0.96	4	0.7	1.1
B0053860	RC Chip	0.13	0.062	19	9	0.61	65	0.004	<20	1.35	0.027	0.23	0.8	<0.01	1.5	0.2	0.15	5	<0.5	0.2
B0053861	RC Chip	0.47	0.071	17	12	0.57	65	0.003	<20	1.22	0.034	0.21	0.9	<0.01	1.7	0.2	0.11	5	<0.5	<0.2
B0053862	RC Chip	0.56	0.068	19	12	0.66	78	0.023	<20	1.18	0.039	0.16	1.1	<0.01	2.2	0.2	0.05	5	<0.5	<0.2
B0053863	RC Chip	0.51	0.073	20	13	0.71	74	0.024	<20	1.35	0.040	0.17	0.3	<0.01	2.7	0.2	0.14	6	<0.5	<0.2
B0053864	RC Chip	0.82	0.065	17	12	0.64	61	0.005	<20	1.18	0.037	0.16	0.4	<0.01	2.3	0.2	0.24	6	<0.5	<0.2
B0053865	RC Chip	0.88	0.070	18	11	0.61	51	0.012	<20	1.23	0.034	0.25	1.6	<0.01	2.9	0.3	1.05	6	<0.5	0.5
B0053866	RC Chip	0.81	0.066	21	14	0.64	99	0.079	<20	1.12	0.044	0.28	2.1	<0.01	3.0	0.4	0.35	5	<0.5	<0.2
B0053867	RC Chip	0.61	0.070	19	15	0.77	81	0.114	<20	1.23	0.053	0.28	2.1	<0.01	2.4	0.5	0.18	6	<0.5	<0.2
B0053868	RC Chip	0.66	0.071	23	16	0.78	154	0.126	<20	1.21	0.062	0.36	2.9	<0.01	2.9	0.6	0.13	5	<0.5	<0.2
B0053869	RC Chip	0.63	0.068	22	17	0.75	176	0.127	<20	1.16	0.063	0.37	2.7	<0.01	2.8	0.6	0.13	5	<0.5	<0.2
B0053870	RC Chip	0.63	0.071	23	18	0.67	272	0.148	<20	1.07	0.083	0.42	2.4	<0.01	3.3	0.6	<0.05	5	<0.5	<0.2
B0053871	RC Chip	0.84	0.078	21	16	0.88	51	0.116	<20	1.36	0.048	0.26	2.7	<0.01	2.7	0.5	0.26	6	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0053872	RC Chip	1.84	0.025	1.6	21.4	9.9	45	0.3	5.0	7.3	503	2.68	21.6	3.5	9.1	14.1	33	0.2	3.6	1.7	37
B0053873	RC Chip	1.90	0.017	1.6	16.4	6.8	41	<0.1	5.5	13.4	459	2.46	28.4	3.6	10.7	12.6	31	0.1	3.1	0.4	30
B0053874	RC Chip	2.10	<0.005	1.5	11.8	6.4	44	<0.1	5.4	8.7	506	2.63	12.7	3.1	0.6	15.7	35	0.2	3.8	0.2	38
B0053875	RC Chip	1.81	0.009	2.0	13.5	7.0	38	0.1	4.9	7.5	460	2.68	18.1	3.0	5.2	13.8	31	0.1	3.2	0.4	36
B695326	Rock DUP		0.010	1.8	12.8	6.6	37	0.1	4.8	7.0	458	2.68	17.8	3.0	4.4	13.0	31	<0.1	3.2	0.4	35
B0053876	RC Chip	1.87	0.011	2.4	10.4	8.0	42	0.2	4.8	7.8	463	2.41	21.6	5.2	30.5	13.0	34	0.1	3.2	0.5	31
B0053877	RC Chip	1.98	0.012	2.2	13.5	11.5	39	0.2	4.4	9.2	428	2.22	27.3	5.3	8.4	14.0	40	0.2	2.4	0.7	33
B0053878	RC Chip	2.17	0.007	1.8	4.3	7.7	34	<0.1	3.8	5.9	419	2.06	18.3	3.0	3.7	13.4	40	0.2	2.3	0.3	30
B0053879	RC Chip	2.23	<0.005	1.7	2.1	6.6	40	<0.1	3.9	1.3	430	2.04	8.5	2.7	0.8	12.4	35	0.2	2.9	0.1	31
B0053880	RC Chip	1.99	0.006	1.4	4.7	5.2	39	<0.1	4.2	2.3	421	2.24	9.3	2.8	0.6	14.8	29	<0.1	2.7	0.2	36
B0053881	RC Chip	2.05	0.009	1.8	17.2	6.2	41	0.1	4.6	7.1	426	2.34	13.5	3.5	3.1	13.9	30	0.2	2.3	0.5	36
B0053882	RC Chip	1.70	<0.005	1.8	29.3	7.7	46	<0.1	5.0	7.1	426	2.59	11.2	3.7	0.9	14.7	29	0.2	2.1	0.2	39
B0053883	RC Chip	1.91	0.007	1.6	21.8	13.4	48	0.2	5.2	4.3	518	2.78	14.7	2.6	6.1	14.4	33	0.2	2.1	0.4	42
B0053884	RC Chip	2.11	<0.005	1.8	15.5	6.8	42	<0.1	4.8	5.2	457	2.65	11.1	2.6	0.6	13.3	29	0.2	1.8	0.2	40
B0053885	RC Chip	2.48	0.007	1.8	8.8	6.8	43	0.1	4.5	4.3	439	2.62	11.4	2.2	1.4	12.4	33	<0.1	1.9	0.6	39
B0053886	RC Chip	2.87	0.005	1.9	7.1	5.5	40	<0.1	4.6	3.5	441	2.65	9.3	2.1	1.1	12.5	31	<0.1	1.5	0.3	41
B0053887	RC Chip	2.18	0.018	1.6	66.4	7.4	42	0.5	4.2	3.9	450	2.55	11.4	2.2	4.3	12.8	99	0.1	1.0	3.9	35
B0053888	RC Chip	2.08	0.067	1.4	163.6	9.2	44	1.2	4.4	6.2	442	2.83	15.5	3.5	25.3	13.5	146	0.1	1.5	37.3	35
B0053889	RC Chip	2.24	0.784	1.6	334.6	20.0	46	3.3	4.6	6.4	424	2.89	22.8	2.6	742.9	14.2	57	0.3	1.7	116.7	38
B0053890	RC Chip	4.41	0.078	1.5	205.3	9.3	51	1.9	4.1	3.4	496	2.74	18.9	3.0	36.4	13.7	67	0.1	1.4	15.8	36
B0053891	RC Chip	2.41	0.078	2.1	199.9	62.8	54	7.1	4.3	5.2	494	2.99	18.0	4.9	34.8	14.5	31	0.7	1.8	47.1	36
B0053892	RC Chip	2.12	0.008	3.4	27.9	11.1	52	0.5	4.3	3.0	581	2.88	22.8	4.8	2.7	15.7	46	0.2	1.4	2.9	37
B0053893	RC Chip	2.23	<0.005	2.9	11.6	10.0	43	0.2	4.1	2.4	453	2.60	17.9	3.6	1.1	13.9	66	0.1	1.9	0.5	40
B0053894	RC Chip	1.68	0.008	3.5	22.9	6.4	54	0.2	5.6	11.5	621	2.78	22.8	2.5	3.9	12.9	32	0.2	1.8	1.1	30
B0053895	RC Chip	2.88	0.009	2.7	19.0	6.1	52	0.2	5.1	10.0	574	2.61	21.1	2.3	5.2	13.3	31	0.2	1.7	1.0	31
B0053896	RC Chip	1.88	0.011	1.9	25.2	3.9	28	0.1	4.6	2.2	514	1.65	8.0	1.6	2.1	9.2	50	<0.1	0.6	1.3	11
B0053897	RC Chip	2.22	0.005	1.9	12.8	3.7	29	0.2	4.5	1.4	489	1.69	9.2	1.6	1.9	8.7	47	<0.1	0.5	1.3	11
B0053898	RC Chip	2.04	0.009	2.5	21.0	15.7	49	0.3	5.3	3.8	438	2.48	46.0	4.1	3.4	13.2	53	0.3	1.9	1.5	32
B0053899	RC Chip	2.12	0.023	2.4	22.8	12.7	46	0.2	4.7	3.5	453	2.71	21.2	4.0	2.0	13.9	58	0.2	1.8	0.7	35
B0053900	RC Chip	1.70	0.029	1.8	44.7	11.1	50	0.5	4.6	3.1	525	2.98	30.2	3.7	39.9	13.8	73	0.2	1.5	2.8	40



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Project: Rude Creek
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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0053872	RC Chip	0.76	0.074	14	15	0.80	46	0.114	<20	1.30	0.052	0.21	2.6	<0.01	2.3	0.4	0.20	6	<0.5	<0.2
B0053873	RC Chip	0.52	0.069	10	13	0.71	47	0.087	<20	1.37	0.053	0.17	2.0	<0.01	1.9	0.2	0.26	6	<0.5	<0.2
B0053874	RC Chip	0.56	0.078	14	15	0.72	65	0.112	28	1.34	0.057	0.17	2.2	<0.01	2.3	0.2	<0.05	6	<0.5	<0.2
B0053875	RC Chip	0.74	0.068	14	17	0.66	52	0.098	<20	1.18	0.051	0.15	2.9	<0.01	2.1	0.2	0.13	5	<0.5	<0.2
B695326	Rock DUP	0.72	0.066	13	16	0.66	50	0.097	21	1.17	0.054	0.15	2.8	<0.01	2.0	0.2	0.14	5	<0.5	<0.2
B0053876	RC Chip	0.67	0.066	10	14	0.72	49	0.084	<20	1.30	0.055	0.23	2.0	<0.01	1.9	0.4	0.13	5	<0.5	<0.2
B0053877	RC Chip	0.67	0.068	9	13	0.65	52	0.081	<20	1.35	0.060	0.26	2.0	<0.01	2.2	0.5	0.15	5	<0.5	<0.2
B0053878	RC Chip	0.78	0.064	9	13	0.62	41	0.079	<20	1.16	0.049	0.17	2.1	<0.01	2.1	0.3	0.14	5	<0.5	<0.2
B0053879	RC Chip	0.81	0.064	10	13	0.68	43	0.091	<20	1.23	0.049	0.17	1.7	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2
B0053880	RC Chip	0.71	0.068	10	12	0.68	48	0.102	<20	1.19	0.053	0.24	2.1	<0.01	2.5	0.4	<0.05	5	<0.5	<0.2
B0053881	RC Chip	0.70	0.069	13	15	0.66	44	0.102	<20	1.25	0.052	0.20	2.2	<0.01	2.3	0.3	0.06	5	<0.5	<0.2
B0053882	RC Chip	0.54	0.070	14	14	0.66	49	0.098	<20	1.37	0.052	0.20	1.5	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
B0053883	RC Chip	0.80	0.077	14	14	0.80	35	0.105	<20	1.40	0.043	0.18	1.9	<0.01	2.6	0.3	0.11	6	<0.5	<0.2
B0053884	RC Chip	0.72	0.068	16	14	0.70	84	0.105	<20	1.25	0.053	0.22	2.1	<0.01	2.5	0.3	0.10	5	<0.5	<0.2
B0053885	RC Chip	0.76	0.067	13	14	0.70	53	0.099	<20	1.25	0.058	0.26	2.2	<0.01	2.3	0.5	0.11	5	<0.5	<0.2
B0053886	RC Chip	0.74	0.067	15	15	0.71	109	0.109	<20	1.20	0.059	0.32	1.8	<0.01	2.6	0.6	0.08	5	<0.5	<0.2
B0053887	RC Chip	1.10	0.067	16	14	0.63	66	0.035	<20	1.36	0.051	0.28	0.4	<0.01	3.0	0.6	0.17	6	<0.5	<0.2
B0053888	RC Chip	1.18	0.067	19	12	0.64	109	0.035	<20	1.62	0.060	0.22	0.2	<0.01	3.4	0.4	0.43	6	<0.5	<0.2
B0053889	RC Chip	0.93	0.071	19	13	0.68	80	0.015	<20	1.38	0.044	0.20	1.1	<0.01	3.5	0.3	0.77	7	<0.5	0.4
B0053890	RC Chip	1.34	0.070	13	12	0.76	60	0.039	<20	1.52	0.046	0.26	0.5	<0.01	2.9	0.5	0.42	7	<0.5	<0.2
B0053891	RC Chip	1.19	0.074	15	12	0.66	54	0.057	<20	1.33	0.043	0.31	1.4	<0.01	3.0	0.7	0.51	7	<0.5	0.3
B0053892	RC Chip	1.39	0.066	14	13	0.74	52	0.066	<20	1.58	0.050	0.21	1.7	<0.01	2.8	0.4	0.14	6	<0.5	<0.2
B0053893	RC Chip	1.13	0.066	14	15	0.64	51	0.085	<20	1.29	0.064	0.16	1.4	<0.01	3.1	0.4	0.08	5	<0.5	<0.2
B0053894	RC Chip	1.13	0.083	13	12	0.77	79	0.053	<20	1.43	0.039	0.24	1.9	<0.01	2.1	0.3	0.12	6	<0.5	<0.2
B0053895	RC Chip	1.06	0.084	13	10	0.75	80	0.052	<20	1.39	0.038	0.24	0.9	<0.01	2.1	0.3	0.11	6	<0.5	<0.2
B0053896	RC Chip	1.80	0.046	22	13	0.41	55	0.008	<20	0.94	0.032	0.28	1.2	<0.01	0.9	0.4	<0.05	5	<0.5	<0.2
B0053897	RC Chip	1.73	0.046	21	12	0.39	47	0.006	<20	0.87	0.035	0.26	0.8	<0.01	0.8	0.3	<0.05	5	<0.5	<0.2
B0053898	RC Chip	1.21	0.067	12	16	0.65	47	0.065	<20	1.29	0.046	0.15	2.9	<0.01	2.1	0.2	0.14	6	<0.5	<0.2
B0053899	RC Chip	1.04	0.062	12	17	0.69	55	0.080	<20	1.29	0.054	0.18	2.7	<0.01	2.5	0.4	0.15	6	<0.5	<0.2
B0053900	RC Chip	1.13	0.065	11	15	0.82	58	0.075	<20	1.40	0.044	0.25	1.7	<0.01	2.8	0.5	0.49	7	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0053901	RC Chip	1.71	0.074	2.3	153.0	67.7	53	5.0	4.4	11.5	510	2.88	25.0	6.0	41.5	12.4	172	1.1	1.4	33.0	30
B0053902	RC Chip	2.10	0.066	1.7	90.6	38.0	36	1.3	3.8	4.8	408	2.48	22.5	5.9	13.0	13.4	52	0.2	1.9	11.5	25
B0053903	RC Chip	2.41	0.008	1.8	13.6	7.0	41	0.3	4.4	2.5	465	2.20	16.2	3.5	3.4	13.7	25	<0.1	1.5	2.3	25
B0053904	RC Chip	2.21	<0.005	1.9	15.9	6.9	45	0.1	4.9	2.4	379	1.87	9.7	3.6	1.2	13.2	22	0.2	2.5	0.6	27
B0053905	RC Chip	1.93	0.017	2.1	16.8	12.7	40	0.8	4.4	6.6	404	2.25	21.5	3.4	4.0	12.0	34	0.2	3.0	11.3	32
B0053906	RC Chip	1.17	0.010	1.9	7.6	9.6	38	0.2	4.5	10.8	373	2.08	21.7	3.3	5.4	14.4	36	0.1	2.5	2.1	30
B0053907	RC Chip	0.84	0.014	2.3	12.1	9.1	43	0.2	4.5	7.6	419	2.37	22.6	2.6	3.2	12.7	30	0.1	2.2	1.0	33
B0053908	RC Chip	2.25	0.020	2.2	49.9	14.2	41	0.8	4.3	6.1	407	2.33	26.3	2.7	7.0	13.8	92	0.2	2.2	3.2	34
B0053909	RC Chip	1.67	0.015	3.5	44.4	7.9	36	0.4	4.3	5.3	461	2.45	21.5	2.1	8.8	13.3	22	0.1	2.3	2.5	27
B0053910	RC Chip	1.43	0.006	2.2	19.4	5.1	35	0.1	3.9	3.9	390	1.90	9.1	1.7	3.3	13.2	19	<0.1	2.0	0.5	24
B0053911	RC Chip	1.94	0.028	2.1	121.1	15.2	36	2.4	4.9	12.6	455	2.46	27.6	3.4	11.4	14.1	37	0.2	1.3	18.9	30
B0053912	RC Chip	2.08	0.111	1.7	29.6	4.1	53	0.3	5.3	34.8	581	3.74	82.8	3.7	24.0	10.5	26	<0.1	1.2	2.0	25
B0053913	RC Chip	1.98	0.062	2.1	6.8	9.1	49	0.4	4.9	19.0	448	3.72	132.9	3.1	37.1	12.3	104	0.1	1.9	2.3	26
B0053914	RC Chip	1.93	0.033	2.3	29.8	16.4	52	0.6	4.8	10.1	435	2.66	62.8	3.6	14.4	13.0	95	0.4	2.5	2.4	30
B0053915	RC Chip	2.38	0.030	2.4	10.9	9.1	33	0.2	5.6	4.5	349	1.61	11.2	1.6	3.0	7.4	34	0.4	1.1	0.9	14
B0053916	RC Chip	1.87	0.011	2.9	3.8	8.1	38	0.1	4.3	6.1	320	1.63	31.0	1.7	11.4	7.2	25	0.4	1.1	0.8	13
B0053917	RC Chip	2.93	0.009	2.4	8.1	10.2	40	0.1	4.5	4.9	332	1.58	36.7	1.3	2.8	6.4	27	0.4	1.5	0.4	12
B0053918	RC Chip	2.89	0.221	2.9	73.4	31.2	39	1.9	4.6	5.7	345	1.85	64.4	2.1	76.5	6.8	32	0.5	7.8	47.1	15
B0053919	RC Chip	1.52	0.508	3.5	35.3	19.6	53	1.2	6.2	11.3	478	2.72	40.9	2.8	305.3	11.2	46	0.5	4.6	31.3	27
B0053920	RC Chip	1.66	0.031	2.1	9.4	9.4	46	0.3	4.9	4.7	438	2.32	14.7	3.8	5.7	14.0	81	0.2	3.3	5.7	34
B0053921	RC Chip	3.61	0.015	6.7	3.5	7.6	48	0.2	4.2	11.9	457	2.95	45.5	3.8	8.3	13.1	57	<0.1	2.0	0.7	35
B0053922	RC Chip	3.72	0.018	0.9	26.8	7.1	39	0.3	4.4	6.9	422	2.71	12.3	3.7	3.4	13.2	33	<0.1	2.1	1.7	43
B0053923	RC Chip	3.87	0.012	1.0	12.8	7.3	49	0.2	5.1	6.7	582	2.94	14.9	3.8	3.8	13.6	40	0.1	3.2	0.6	46
B0053924	RC Chip	4.09	0.028	2.0	24.8	9.1	44	0.4	5.0	11.0	478	2.76	25.6	4.1	10.8	13.6	73	0.1	3.5	2.5	37
B0053925	RC Chip	1.87	0.017	1.6	21.9	10.4	43	0.3	5.0	5.3	462	2.77	16.9	3.7	122.2	13.4	70	0.1	3.5	1.5	45
B0053633	RC Chip	2.74	0.048	4.2	52.6	97.4	44	1.0	7.9	8.7	463	2.91	50.1	5.5	22.2	13.6	81	0.3	2.3	21.4	46
B0053634	RC Chip	1.52	0.042	2.7	39.0	64.3	42	0.7	8.2	6.6	387	2.58	48.3	15.1	18.5	14.1	68	0.3	3.2	8.0	27
B0053635	RC Chip	3.21	0.018	2.0	12.7	25.4	39	0.4	5.5	6.1	355	2.08	29.4	4.4	10.9	12.3	35	0.2	2.9	3.4	26
B0053636	RC Chip	2.02	0.015	1.4	7.5	13.6	34	0.3	4.1	4.3	318	2.23	23.4	4.4	10.1	13.2	33	0.1	2.7	2.5	28
B0053637	RC Chip	0.83	0.018	1.0	4.1	9.1	29	0.3	4.0	5.5	417	1.96	27.0	5.1	13.4	13.3	33	0.1	2.0	1.7	23



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0053901	RC Chip	1.27	0.063	14	11	0.54	58	0.018	<20	1.35	0.025	0.20	0.7	<0.01	2.3	0.4	0.55	5	<0.5	0.3
B0053902	RC Chip	1.70	0.067	14	11	0.45	59	0.008	<20	0.94	0.031	0.21	1.5	<0.01	2.2	0.3	0.91	5	<0.5	0.4
B0053903	RC Chip	1.44	0.068	14	12	0.63	40	0.021	<20	1.11	0.036	0.16	1.5	<0.01	2.5	0.3	0.30	6	<0.5	<0.2
B0053904	RC Chip	0.93	0.065	8	14	0.59	39	0.071	<20	1.01	0.041	0.14	2.6	<0.01	2.1	0.2	0.11	5	<0.5	<0.2
B0053905	RC Chip	0.93	0.064	8	16	0.63	42	0.085	<20	1.04	0.043	0.13	3.3	<0.01	2.4	0.2	0.44	5	<0.5	<0.2
B0053906	RC Chip	0.88	0.062	9	14	0.59	38	0.076	<20	1.14	0.049	0.11	2.7	<0.01	2.3	0.2	0.33	5	<0.5	<0.2
B0053907	RC Chip	0.93	0.064	8	15	0.71	32	0.077	<20	1.32	0.051	0.10	2.3	<0.01	2.2	0.2	0.33	6	<0.5	<0.2
B0053908	RC Chip	0.82	0.063	14	14	0.65	40	0.077	<20	1.27	0.046	0.11	2.0	<0.01	2.4	0.2	0.22	6	<0.5	<0.2
B0053909	RC Chip	0.48	0.065	9	16	0.63	29	0.075	<20	1.16	0.047	0.10	1.9	<0.01	2.0	0.2	0.09	6	<0.5	<0.2
B0053910	RC Chip	0.67	0.064	7	13	0.53	32	0.066	<20	1.02	0.037	0.11	1.5	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2
B0053911	RC Chip	0.94	0.067	14	14	0.53	44	0.017	<20	1.20	0.042	0.16	1.0	<0.01	2.3	0.3	0.35	5	<0.5	0.2
B0053912	RC Chip	1.08	0.057	9	11	0.92	37	0.036	<20	1.60	0.026	0.21	2.0	<0.01	1.8	0.4	0.85	7	<0.5	<0.2
B0053913	RC Chip	1.11	0.063	8	11	0.83	79	0.062	<20	1.55	0.042	0.32	3.7	<0.01	1.9	0.5	1.65	6	<0.5	<0.2
B0053914	RC Chip	1.26	0.064	13	13	0.65	75	0.069	<20	1.43	0.058	0.25	2.5	<0.01	2.3	0.4	0.65	6	<0.5	<0.2
B0053915	RC Chip	1.13	0.048	12	12	0.39	58	0.046	<20	0.87	0.042	0.21	2.3	<0.01	1.0	0.3	0.08	5	<0.5	<0.2
B0053916	RC Chip	0.75	0.048	11	11	0.38	52	0.050	<20	0.91	0.052	0.18	2.0	<0.01	0.9	0.2	0.09	5	<0.5	<0.2
B0053917	RC Chip	0.78	0.046	10	10	0.38	53	0.051	<20	0.88	0.056	0.18	6.1	<0.01	0.9	0.2	0.08	5	<0.5	<0.2
B0053918	RC Chip	0.69	0.047	11	12	0.42	58	0.053	<20	0.97	0.064	0.19	1.9	<0.01	1.0	0.3	0.11	6	<0.5	<0.2
B0053919	RC Chip	1.00	0.061	12	15	0.72	64	0.081	<20	1.52	0.061	0.23	2.9	<0.01	2.0	0.4	0.25	8	<0.5	<0.2
B0053920	RC Chip	1.12	0.068	10	14	0.71	56	0.093	<20	1.52	0.063	0.19	2.8	<0.01	2.4	0.3	0.10	6	<0.5	<0.2
B0053921	RC Chip	1.02	0.068	8	10	0.93	47	0.095	<20	1.65	0.064	0.26	1.8	<0.01	2.3	0.5	0.53	7	<0.5	<0.2
B0053922	RC Chip	0.79	0.066	19	10	0.76	87	0.118	<20	1.26	0.056	0.23	1.8	<0.01	2.8	0.4	0.14	6	<0.5	<0.2
B0053923	RC Chip	1.40	0.076	10	11	1.00	39	0.110	<20	1.77	0.055	0.16	1.6	<0.01	3.3	0.2	0.14	8	<0.5	<0.2
B0053924	RC Chip	1.21	0.069	12	12	0.88	66	0.103	<20	1.75	0.066	0.30	2.0	<0.01	2.7	0.6	0.22	7	<0.5	<0.2
B0053925	RC Chip	1.25	0.074	17	13	0.80	69	0.121	<20	1.75	0.073	0.23	2.0	<0.01	3.0	0.4	0.15	6	<0.5	<0.2
B0053633	RC Chip	0.40	0.071	19	13	0.63	147	0.068	<20	1.52	0.063	0.23	0.3	<0.01	3.8	0.3	0.07	6	<0.5	0.3
B0053634	RC Chip	0.34	0.063	17	13	0.45	120	0.054	<20	1.24	0.067	0.25	4.1	<0.01	2.2	0.3	0.13	4	<0.5	<0.2
B0053635	RC Chip	0.30	0.050	12	12	0.43	65	0.077	<20	0.89	0.059	0.13	2.4	<0.01	1.8	0.1	0.15	4	<0.5	<0.2
B0053636	RC Chip	0.31	0.049	14	12	0.46	75	0.093	<20	0.85	0.060	0.13	3.1	<0.01	2.1	0.1	0.24	4	<0.5	<0.2
B0053637	RC Chip	0.43	0.046	15	9	0.42	60	0.052	<20	0.76	0.043	0.13	2.3	<0.01	1.6	0.1	0.12	4	<0.5	<0.2



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Project: Rude Creek
Report Date: February 22, 2021

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CERTIFICATE OF ANALYSIS

WHI20000522.1

Method Analyte	Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0053638	RC Chip	3.41	0.016	1.2	12.2	10.0	27	0.3	3.8	8.7	522	1.99	25.4	6.3	9.7	25.9	23	0.2	1.5	1.9	10
B0053639	RC Chip	3.67	0.019	8.0	19.5	16.8	25	0.4	3.0	4.2	307	2.15	37.3	6.3	14.0	20.8	25	<0.1	2.1	2.5	11
B0053640	RC Chip	3.97	0.015	1.3	11.3	10.6	24	0.3	3.3	5.3	350	1.73	22.3	6.3	36.0	14.2	25	<0.1	2.2	1.7	11
B0053641	RC Chip	2.99	0.047	1.1	14.8	9.7	26	0.3	3.5	5.4	386	1.76	28.6	8.2	11.5	13.6	19	0.1	2.3	1.6	10
B0053642	RC Chip	3.02	0.050	1.2	25.3	10.2	23	0.4	2.8	4.7	293	1.89	31.9	9.6	11.8	13.4	19	0.1	3.7	2.1	8
B0053643	RC Chip	2.76	0.024	10.8	15.6	10.7	32	0.5	4.6	6.2	313	2.34	41.1	16.8	18.1	14.7	60	<0.1	3.7	2.7	10
B0053644	RC Chip	2.07	0.019	1.8	5.2	6.1	31	0.2	4.3	7.0	478	2.27	28.2	3.5	18.2	15.2	22	<0.1	3.0	1.4	23
B0053645	RC Chip	1.87	0.044	1.7	3.3	9.1	33	0.2	4.7	6.7	461	2.39	26.1	6.7	14.7	14.4	22	<0.1	3.5	2.1	25
B0053646	RC Chip	1.96	0.015	1.6	6.1	9.2	38	0.2	5.0	5.4	451	2.78	23.5	7.0	10.2	16.2	42	0.1	3.5	1.2	40
B0053647	RC Chip	2.19	0.019	1.7	7.3	6.4	38	0.1	4.7	5.5	422	2.82	22.6	6.5	8.2	16.3	94	0.1	2.6	1.6	49
B0053648	RC Chip	2.82	0.054	1.8	8.3	19.9	35	0.7	4.5	6.4	440	2.75	32.4	4.5	57.9	14.6	79	0.1	2.3	5.6	37
B0053649	RC Chip	2.08	0.046	2.4	17.3	16.0	40	0.5	5.1	9.4	564	2.72	16.8	7.3	16.7	15.6	217	0.2	1.3	4.9	47
B0053650	RC Chip	2.73	0.013	1.6	15.3	9.1	35	0.3	4.6	5.7	494	2.57	12.5	4.4	4.1	13.9	66	0.1	1.8	3.1	40
B0053651	RC Chip	3.26	0.027	1.6	11.9	9.5	34	0.2	4.5	6.4	461	2.85	13.1	5.7	6.2	15.0	52	<0.1	1.1	1.4	45
B0053652	RC Chip	2.73	<0.005	1.5	6.0	4.5	38	<0.1	4.6	6.5	465	2.76	7.9	4.3	3.4	14.5	75	<0.1	1.0	0.5	50
B0053653	RC Chip	2.42	0.010	1.7	26.9	6.8	42	0.4	4.4	4.9	515	2.82	8.8	4.8	3.7	13.8	46	<0.1	1.0	2.9	52
B0053654	RC Chip	3.29	0.007	6.1	6.1	4.2	35	0.1	4.3	5.8	491	2.56	12.8	6.5	3.8	14.6	75	<0.1	1.2	0.7	41
B0053655	RC Chip	3.19	<0.005	1.9	7.3	5.0	36	<0.1	4.7	6.2	505	2.79	4.7	5.7	0.8	14.8	120	<0.1	0.8	0.2	52
B0053656	RC Chip	2.08	<0.005	1.8	7.0	4.7	38	<0.1	4.6	6.1	519	2.60	13.1	5.1	1.2	14.4	101	<0.1	1.2	0.3	44
B0053657	RC Chip	2.81	0.041	1.8	25.1	15.2	41	0.5	4.8	6.8	493	2.28	123.9	3.7	8.5	13.8	58	0.2	2.4	2.9	35
B0053658	RC Chip	1.74	0.024	2.2	6.7	13.8	41	0.5	5.1	8.7	479	2.66	80.9	3.5	37.7	13.5	43	0.2	2.0	8.0	33
B0053659	RC Chip	1.81	0.022	2.3	41.3	8.4	38	0.4	4.3	6.5	436	2.73	51.2	5.9	10.2	13.6	35	0.2	1.9	8.1	33
B0053660	RC Chip	0.44	0.022	2.2	25.8	20.2	23	0.9	4.1	7.4	312	3.54	41.3	6.8	14.2	13.1	59	0.1	1.5	5.8	17
B0053661	RC Chip	1.56	0.068	2.5	6.5	10.8	37	0.3	4.6	8.8	461	2.70	46.5	4.9	16.9	12.7	26	<0.1	1.2	7.7	39
B0053662	RC Chip	1.58	0.014	2.2	5.5	6.9	41	0.2	4.5	7.7	465	2.62	34.7	4.0	7.6	14.8	35	<0.1	0.9	2.4	41
B0053663	RC Chip	1.08	0.020	9.9	11.1	9.9	36	0.3	4.9	8.7	526	2.92	102.1	7.1	10.9	19.4	44	0.1	1.0	2.1	35
B0053664	RC Chip	1.42	0.082	2.3	157.6	24.8	35	2.0	4.6	9.0	517	2.80	124.5	7.9	12.9	16.6	43	0.1	0.9	7.4	32
B0053665	RC Chip	1.41	0.097	5.1	168.9	107.8	51	1.9	5.6	11.2	657	3.85	64.7	6.2	17.4	12.8	89	0.3	0.9	4.7	36
B0053666	RC Chip	1.19	0.149	1.6	14.5	67.9	46	2.7	5.9	12.5	417	4.50	181.8	4.7	159.5	12.1	15	1.4	0.4	6.9	13
B0053667	RC Chip	1.21	0.158	1.2	12.6	56.4	59	2.2	6.1	12.8	733	4.59	170.7	3.6	49.1	11.9	13	0.8	0.3	5.5	16



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0053638	RC Chip	0.41	0.042	12	10	0.30	56	0.003	<20	0.73	0.040	0.20	15.9	<0.01	0.9	0.2	0.20	3	<0.5	<0.2
B0053639	RC Chip	0.58	0.042	12	8	0.29	61	0.004	<20	0.70	0.072	0.20	1.5	<0.01	0.9	0.2	0.54	3	<0.5	0.2
B0053640	RC Chip	0.69	0.045	12	9	0.30	69	0.006	<20	0.72	0.044	0.21	1.5	<0.01	0.9	0.2	0.38	3	<0.5	<0.2
B0053641	RC Chip	0.88	0.044	11	8	0.31	61	0.004	<20	0.73	0.034	0.19	2.0	<0.01	0.8	0.2	0.68	3	<0.5	<0.2
B0053642	RC Chip	0.83	0.045	10	6	0.28	62	0.002	<20	0.71	0.029	0.22	1.3	<0.01	0.6	0.2	0.76	2	<0.5	0.2
B0053643	RC Chip	0.84	0.045	11	7	0.46	87	0.007	<20	0.96	0.034	0.24	1.5	<0.01	1.0	0.2	1.19	3	<0.5	0.2
B0053644	RC Chip	0.97	0.060	14	11	0.52	52	0.055	<20	0.92	0.032	0.13	2.2	<0.01	1.8	0.1	0.61	4	<0.5	<0.2
B0053645	RC Chip	0.80	0.062	11	13	0.59	58	0.076	<20	1.02	0.036	0.14	2.5	<0.01	1.8	0.1	0.48	4	<0.5	<0.2
B0053646	RC Chip	0.72	0.065	19	15	0.71	53	0.097	<20	1.09	0.042	0.09	2.4	<0.01	2.8	<0.1	0.52	5	<0.5	<0.2
B0053647	RC Chip	0.62	0.062	22	16	0.74	219	0.146	<20	1.13	0.069	0.30	2.1	<0.01	3.7	0.4	0.36	6	<0.5	<0.2
B0053648	RC Chip	0.97	0.064	17	14	0.65	66	0.082	<20	1.08	0.056	0.16	1.9	<0.01	3.2	0.2	0.83	6	<0.5	0.5
B0053649	RC Chip	0.91	0.060	24	13	0.76	281	0.124	<20	1.34	0.062	0.35	1.2	<0.01	4.5	0.5	0.74	6	<0.5	<0.2
B0053650	RC Chip	1.20	0.063	19	14	0.67	105	0.090	<20	1.22	0.047	0.22	1.6	<0.01	3.1	0.3	0.44	5	<0.5	<0.2
B0053651	RC Chip	0.97	0.060	23	15	0.68	238	0.109	<20	1.14	0.063	0.40	1.4	<0.01	3.7	0.5	0.44	5	<0.5	<0.2
B0053652	RC Chip	0.68	0.063	21	15	0.72	306	0.157	<20	1.11	0.071	0.45	1.5	<0.01	3.6	0.6	0.13	5	<0.5	<0.2
B0053653	RC Chip	0.81	0.062	19	15	0.76	244	0.138	<20	1.18	0.063	0.38	1.5	<0.01	4.3	0.5	0.19	6	<0.5	<0.2
B0053654	RC Chip	0.93	0.062	19	15	0.67	202	0.106	<20	1.11	0.058	0.31	1.3	<0.01	3.1	0.4	0.22	5	<0.5	<0.2
B0053655	RC Chip	0.81	0.066	26	16	0.70	369	0.167	<20	1.18	0.094	0.44	1.1	<0.01	3.4	0.5	<0.05	5	<0.5	<0.2
B0053656	RC Chip	1.01	0.067	20	15	0.75	244	0.127	<20	1.36	0.062	0.33	1.1	<0.01	2.5	0.4	0.10	5	<0.5	<0.2
B0053657	RC Chip	0.84	0.069	14	13	0.73	67	0.087	<20	1.45	0.050	0.14	1.4	<0.01	2.2	0.2	0.27	5	<0.5	0.5
B0053658	RC Chip	0.89	0.067	15	17	0.78	69	0.077	<20	1.24	0.044	0.13	1.9	<0.01	2.1	0.2	0.82	5	<0.5	0.5
B0053659	RC Chip	0.82	0.063	18	14	0.73	117	0.061	<20	1.21	0.055	0.22	1.1	<0.01	2.5	0.3	0.61	5	<0.5	<0.2
B0053660	RC Chip	1.39	0.069	13	11	0.37	92	0.020	<20	0.82	0.057	0.23	3.7	<0.01	1.4	0.2	2.60	3	<0.5	0.7
B0053661	RC Chip	0.85	0.070	19	15	0.69	144	0.077	<20	1.13	0.049	0.29	1.9	<0.01	3.5	0.4	0.58	5	<0.5	0.3
B0053662	RC Chip	0.77	0.064	24	16	0.75	181	0.090	<20	1.17	0.048	0.33	1.3	<0.01	3.2	0.4	0.30	5	<0.5	0.2
B0053663	RC Chip	1.07	0.071	19	17	0.68	102	0.061	<20	1.16	0.041	0.21	2.9	<0.01	2.7	0.3	1.01	4	<0.5	<0.2
B0053664	RC Chip	1.18	0.067	19	15	0.62	48	0.043	<20	1.14	0.035	0.16	2.7	<0.01	2.5	0.2	1.05	4	<0.5	0.2
B0053665	RC Chip	1.40	0.084	15	12	0.68	80	0.028	<20	1.61	0.030	0.29	1.1	<0.01	2.7	0.4	1.60	5	<0.5	0.5
B0053666	RC Chip	0.66	0.083	10	7	0.22	85	0.003	<20	1.01	0.009	0.31	1.0	<0.01	1.1	0.3	3.36	5	1.1	1.4
B0053667	RC Chip	0.76	0.085	13	9	0.48	72	0.003	<20	1.23	0.010	0.36	1.0	<0.01	1.5	0.4	2.37	5	0.7	1.4



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B695328	Rock DUP	<0.01	0.195	1.4	12.5	55.0	60	2.2	6.3	13.2	753	4.62	174.6	3.5	204.0	11.8	13	0.9	0.3	5.3	17	
B0053668	RC Chip	1.94	0.035	4.1	13.3	7.9	37	0.3	5.6	10.5	559	2.93	77.7	5.0	29.5	12.1	26	0.2	1.2	2.4	24	
B0053669	RC Chip	2.60	0.015	2.5	18.6	6.2	39	0.2	5.9	7.9	535	3.00	20.0	2.8	9.0	11.5	46	0.1	1.6	2.1	49	
B0053670	RC Chip	0.51	0.112	3.2	14.3	4.1	30	0.5	6.4	12.4	466	3.20	46.9	3.2	375.2	10.3	28	0.1	0.9	7.4	30	
B0053671	RC Chip	4.61	0.021	1.4	34.3	6.3	42	0.3	7.2	9.1	640	3.27	10.5	2.4	1.4	11.0	70	<0.1	1.3	3.3	64	
B0053672	RC Chip	1.44	<0.005	1.9	20.9	4.1	40	0.1	8.4	7.7	556	3.04	9.8	2.6	1.2	10.6	118	<0.1	1.5	1.2	59	
B0053673	RC Chip	1.12	0.011	2.0	8.5	3.0	40	<0.1	7.7	9.8	586	3.04	8.3	3.0	<0.5	10.9	86	<0.1	1.1	0.1	64	
B0053674	RC Chip	1.40	<0.005	2.7	5.5	2.7	36	<0.1	6.3	7.9	550	2.85	4.6	3.6	<0.5	12.4	75	<0.1	0.7	<0.1	59	
B0053675	RC Chip	3.41	<0.005	3.3	6.1	3.6	38	<0.1	6.8	8.8	609	2.90	7.9	3.2	0.5	11.7	70	<0.1	1.1	<0.1	57	
B0053676	RC Chip	2.27	<0.005	2.8	6.3	3.3	38	<0.1	6.6	8.5	587	2.90	6.5	3.2	<0.5	11.2	88	<0.1	1.0	<0.1	57	
B0053677	RC Chip	1.09	<0.005	3.7	7.1	2.8	36	<0.1	6.4	8.2	531	2.87	6.4	3.7	<0.5	11.8	68	<0.1	0.9	0.2	57	
B0053678	RC Chip	6.07	0.012	4.5	31.1	4.9	43	0.1	6.7	10.1	544	3.11	23.2	2.4	6.4	8.9	82	0.1	1.6	1.2	58	
B0053679	RC Chip	1.13	0.019	3.4	4.6	5.3	42	<0.1	6.9	9.2	456	2.78	43.2	2.4	3.3	9.9	83	<0.1	1.9	0.9	44	
B0053680	RC Chip	3.12	0.019	5.6	4.3	6.9	42	0.2	6.9	10.0	442	3.29	59.4	2.2	13.2	9.6	85	<0.1	1.5	2.2	36	
B0053681	RC Chip	1.44	0.029	6.0	3.9	5.8	43	0.2	6.7	10.0	459	3.46	55.9	2.4	24.4	10.4	73	<0.1	1.4	2.0	29	
B0053682	RC Chip	5.54	0.171	3.5	4.3	6.8	31	0.4	6.9	12.2	476	4.43	125.5	6.7	186.0	10.6	84	<0.1	0.6	5.2	19	
B0053683	RC Chip	2.93	0.046	2.8	2.5	3.1	27	0.2	7.3	9.1	419	3.13	90.4	2.5	22.7	9.2	102	<0.1	0.4	2.2	17	
B0053684	RC Chip	1.58	0.052	2.1	2.7	5.8	31	0.3	7.7	10.7	404	3.51	111.7	4.2	118.1	9.6	69	<0.1	0.5	3.0	19	
B0053685	RC Chip	3.83	0.092	2.2	8.1	12.0	25	0.9	6.8	13.5	239	5.04	130.9	6.8	340.6	9.2	137	0.2	0.6	8.3	12	



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B695328	Rock DUP	0.77	0.086	13	9	0.48	71	0.003	<20	1.25	0.009	0.36	0.9	<0.01	1.6	0.4	2.39	5	0.8	1.4
B0053668	RC Chip	0.91	0.084	16	11	0.71	55	0.021	<20	1.41	0.025	0.24	1.2	<0.01	1.8	0.3	0.93	4	<0.5	0.2
B0053669	RC Chip	0.88	0.085	20	17	0.91	87	0.109	<20	1.50	0.058	0.16	2.1	<0.01	3.3	0.2	0.27	5	<0.5	<0.2
B0053670	RC Chip	1.29	0.089	16	13	0.77	43	0.049	<20	1.31	0.028	0.20	1.7	<0.01	2.4	0.2	1.61	5	<0.5	0.4
B0053671	RC Chip	1.54	0.096	21	16	1.04	219	0.143	<20	1.74	0.092	0.34	1.4	<0.01	4.4	0.4	0.19	6	<0.5	<0.2
B0053672	RC Chip	1.07	0.103	18	20	0.98	241	0.154	<20	1.66	0.103	0.36	2.2	<0.01	3.7	0.4	0.07	6	<0.5	<0.2
B0053673	RC Chip	0.91	0.101	21	18	0.95	301	0.174	<20	1.60	0.115	0.44	2.1	<0.01	3.7	0.4	<0.05	6	<0.5	<0.2
B0053674	RC Chip	0.87	0.093	23	18	0.82	344	0.174	<20	1.47	0.134	0.51	2.6	<0.01	3.2	0.5	<0.05	5	<0.5	<0.2
B0053675	RC Chip	1.04	0.100	21	19	0.91	293	0.165	<20	1.53	0.115	0.45	2.5	<0.01	3.5	0.4	<0.05	5	<0.5	<0.2
B0053676	RC Chip	0.91	0.094	21	19	0.86	311	0.162	<20	1.49	0.113	0.46	2.2	<0.01	3.2	0.4	<0.05	5	<0.5	<0.2
B0053677	RC Chip	0.92	0.090	21	19	0.82	345	0.171	<20	1.44	0.120	0.49	3.1	<0.01	3.2	0.5	<0.05	5	<0.5	<0.2
B0053678	RC Chip	1.28	0.092	16	17	1.09	218	0.166	<20	1.70	0.079	0.35	1.9	<0.01	3.9	0.4	0.16	6	<0.5	<0.2
B0053679	RC Chip	1.08	0.091	17	18	0.95	98	0.111	<20	1.48	0.066	0.15	2.2	<0.01	2.6	0.2	0.59	5	<0.5	<0.2
B0053680	RC Chip	0.97	0.096	16	16	0.89	56	0.025	<20	1.33	0.040	0.12	1.6	<0.01	2.6	0.1	1.67	5	<0.5	<0.2
B0053681	RC Chip	0.83	0.089	20	13	0.88	64	0.011	<20	1.46	0.035	0.18	0.8	<0.01	2.3	0.2	1.55	5	<0.5	<0.2
B0053682	RC Chip	1.35	0.098	19	9	0.73	73	0.002	<20	1.47	0.018	0.27	0.5	<0.01	1.3	0.3	3.18	4	<0.5	0.6
B0053683	RC Chip	1.61	0.107	16	9	0.58	89	0.003	<20	1.50	0.026	0.30	0.7	<0.01	1.1	0.3	1.85	4	<0.5	0.3
B0053684	RC Chip	1.11	0.109	16	9	0.66	83	0.003	<20	1.52	0.022	0.28	0.6	<0.01	1.3	0.3	2.05	4	<0.5	0.5
B0053685	RC Chip	0.95	0.087	12	6	0.33	93	0.002	<20	1.19	0.015	0.29	0.9	<0.01	0.8	0.3	4.53	3	<0.5	0.7



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QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0053867	RC Chip	2.11	0.019	1.6	56.5	10.7	42	0.5	5.0	8.6	495	3.01	17.9	2.9	5.7	14.2	34	0.2	2.0	7.5	42
REP B0053867	QC			1.6	56.7	10.9	43	0.6	4.9	8.9	491	3.04	18.0	2.9	13.0	14.2	33	0.2	2.0	7.6	43
B0053874	RC Chip	2.10	<0.005	1.5	11.8	6.4	44	<0.1	5.4	8.7	506	2.63	12.7	3.1	0.6	15.7	35	0.2	3.8	0.2	38
REP B0053874	QC		<0.005																		
B0053879	RC Chip	2.23	<0.005	1.7	2.1	6.6	40	<0.1	3.9	1.3	430	2.04	8.5	2.7	0.8	12.4	35	0.2	2.9	0.1	31
REP B0053879	QC		0.005																		
B0053900	RC Chip	1.70	0.029	1.8	44.7	11.1	50	0.5	4.6	3.1	525	2.98	30.2	3.7	39.9	13.8	73	0.2	1.5	2.8	40
REP B0053900	QC			1.8	44.8	11.2	49	0.5	4.5	3.0	520	2.96	28.6	3.6	7.3	13.5	71	0.2	1.5	2.8	39
B0053642	RC Chip	3.02	0.050	1.2	25.3	10.2	23	0.4	2.8	4.7	293	1.89	31.9	9.6	11.8	13.4	19	0.1	3.7	2.1	8
REP B0053642	QC			1.3	26.4	10.4	23	0.4	2.9	4.7	299	1.92	33.1	10.0	14.0	13.5	20	0.2	3.6	2.2	8
B0053653	RC Chip	2.42	0.010	1.7	26.9	6.8	42	0.4	4.4	4.9	515	2.82	8.8	4.8	3.7	13.8	46	<0.1	1.0	2.9	52
REP B0053653	QC		0.014																		
B0053659	RC Chip	1.81	0.022	2.3	41.3	8.4	38	0.4	4.3	6.5	436	2.73	51.2	5.9	10.2	13.6	35	0.2	1.9	8.1	33
REP B0053659	QC		0.023																		
B0053674	RC Chip	1.40	<0.005	2.7	5.5	2.7	36	<0.1	6.3	7.9	550	2.85	4.6	3.6	<0.5	12.4	75	<0.1	0.7	<0.1	59
REP B0053674	QC			2.7	5.5	2.6	36	<0.1	6.2	7.7	550	2.83	4.3	3.5	<0.5	11.9	73	<0.1	0.7	<0.1	58
Core Reject Duplicates																					
B0053865	RC Chip	1.96	0.122	1.3	127.2	109.0	41	9.3	4.9	13.6	776	3.33	43.0	6.3	76.3	14.4	27	0.8	1.7	105.0	32
DUP B0053865	QC		0.120	1.2	123.6	104.4	41	9.5	4.7	13.1	758	3.22	41.6	5.9	49.5	13.7	27	0.8	1.6	101.6	30
B0053898	RC Chip	2.04	0.009	2.5	21.0	15.7	49	0.3	5.3	3.8	438	2.48	46.0	4.1	3.4	13.2	53	0.3	1.9	1.5	32
DUP B0053898	QC		0.008	2.5	21.4	15.3	48	0.3	4.8	3.8	429	2.43	45.4	3.8	4.1	12.8	51	0.4	2.0	1.4	31
B0053639	RC Chip	3.67	0.019	8.0	19.5	16.8	25	0.4	3.0	4.2	307	2.15	37.3	6.3	14.0	20.8	25	<0.1	2.1	2.5	11
DUP B0053639	QC		0.018	8.0	19.0	16.8	25	0.4	3.0	4.2	302	2.14	36.9	6.4	14.9	20.8	24	<0.1	2.1	2.5	11
B0053672	RC Chip	1.44	<0.005	1.9	20.9	4.1	40	0.1	8.4	7.7	556	3.04	9.8	2.6	1.2	10.6	118	<0.1	1.5	1.2	59
DUP B0053672	QC		0.007	2.2	22.2	4.2	42	0.1	8.7	7.8	607	3.31	10.7	2.6	2.1	10.4	136	<0.1	1.8	1.1	63
Reference Materials																					
STD BVGEO01	Standard			10.5	4472.6	183.5	1740	2.6	167.3	25.4	740	3.72	116.0	3.6	211.2	14.0	54	6.0	2.6	23.6	76
STD BVGEO01	Standard			10.0	4241.2	169.6	1695	2.5	149.2	23.4	670	3.62	113.4	3.1	197.7	12.5	51	5.7	2.6	22.1	67



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QUALITY CONTROL REPORT

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
B0053867	RC Chip	0.61	0.070	19	15	0.77	81	0.114	<20	1.23	0.053	0.28	2.1	<0.01	2.4	0.5	0.18	6	<0.5	<0.2
REP B0053867	QC	0.61	0.071	19	15	0.79	81	0.112	<20	1.24	0.054	0.29	2.0	<0.01	2.4	0.5	0.19	6	<0.5	<0.2
B0053874	RC Chip	0.56	0.078	14	15	0.72	65	0.112	28	1.34	0.057	0.17	2.2	<0.01	2.3	0.2	<0.05	6	<0.5	<0.2
REP B0053874	QC																			
B0053879	RC Chip	0.81	0.064	10	13	0.68	43	0.091	<20	1.23	0.049	0.17	1.7	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2
REP B0053879	QC																			
B0053900	RC Chip	1.13	0.065	11	15	0.82	58	0.075	<20	1.40	0.044	0.25	1.7	<0.01	2.8	0.5	0.49	7	<0.5	<0.2
REP B0053900	QC	1.11	0.065	11	15	0.82	58	0.073	<20	1.39	0.041	0.24	1.7	<0.01	2.8	0.5	0.47	7	<0.5	<0.2
B0053642	RC Chip	0.83	0.045	10	6	0.28	62	0.002	<20	0.71	0.029	0.22	1.3	<0.01	0.6	0.2	0.76	2	<0.5	0.2
REP B0053642	QC	0.83	0.047	10	7	0.28	62	0.002	<20	0.71	0.029	0.22	1.2	<0.01	0.6	0.2	0.76	3	<0.5	0.2
B0053653	RC Chip	0.81	0.062	19	15	0.76	244	0.138	<20	1.18	0.063	0.38	1.5	<0.01	4.3	0.5	0.19	6	<0.5	<0.2
REP B0053653	QC																			
B0053659	RC Chip	0.82	0.063	18	14	0.73	117	0.061	<20	1.21	0.055	0.22	1.1	<0.01	2.5	0.3	0.61	5	<0.5	<0.2
REP B0053659	QC																			
B0053674	RC Chip	0.87	0.093	23	18	0.82	344	0.174	<20	1.47	0.134	0.51	2.6	<0.01	3.2	0.5	<0.05	5	<0.5	<0.2
REP B0053674	QC	0.87	0.092	22	18	0.81	342	0.175	<20	1.48	0.133	0.50	2.4	<0.01	3.2	0.4	<0.05	5	<0.5	<0.2
Core Reject Duplicates																				
B0053865	RC Chip	0.88	0.070	18	11	0.61	51	0.012	<20	1.23	0.034	0.25	1.6	<0.01	2.9	0.3	1.05	6	<0.5	0.5
DUP B0053865	QC	0.87	0.069	17	10	0.59	50	0.012	<20	1.20	0.030	0.24	1.4	<0.01	2.9	0.3	0.95	6	<0.5	0.5
B0053898	RC Chip	1.21	0.067	12	16	0.65	47	0.065	<20	1.29	0.046	0.15	2.9	<0.01	2.1	0.2	0.14	6	<0.5	<0.2
DUP B0053898	QC	1.17	0.066	12	16	0.64	43	0.065	<20	1.25	0.043	0.14	2.7	<0.01	2.1	0.2	0.14	6	<0.5	<0.2
B0053639	RC Chip	0.58	0.042	12	8	0.29	61	0.004	<20	0.70	0.072	0.20	1.5	<0.01	0.9	0.2	0.54	3	<0.5	0.2
DUP B0053639	QC	0.58	0.041	12	8	0.28	61	0.004	23	0.71	0.074	0.21	1.5	<0.01	0.9	0.2	0.54	3	<0.5	0.2
B0053672	RC Chip	1.07	0.103	18	20	0.98	241	0.154	<20	1.66	0.103	0.36	2.2	<0.01	3.7	0.4	0.07	6	<0.5	<0.2
DUP B0053672	QC	1.20	0.103	19	21	1.02	255	0.172	<20	1.88	0.139	0.40	2.2	<0.01	4.2	0.4	0.08	6	<0.5	<0.2
Reference Materials																				
STD BVGE001	Standard	1.34	0.073	25	169	1.31	322	0.234	<20	2.34	0.191	0.89	3.9	0.11	5.7	0.6	0.68	7	4.7	1.0
STD BVGE001	Standard	1.26	0.069	24	160	1.22	306	0.221	<20	2.13	0.177	0.90	3.9	0.09	5.6	0.6	0.61	7	4.7	1.0



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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
STD DS11	Standard			12.7	145.4	124.8	340	1.8	77.6	13.4	991	3.05	42.6	2.6	47.7	6.6	60	2.3	7.8	10.6	44	
STD DS11	Standard			14.4	151.4	132.0	351	2.1	81.1	14.0	1039	3.18	42.4	2.2	50.1	6.9	65	2.3	6.9	10.7	49	
STD OREAS262	Standard			0.7	119.0	54.5	154	0.5	67.3	29.1	547	3.47	36.6	1.1	62.8	8.8	37	0.7	3.6	1.0	22	
STD OREAS262	Standard			0.6	115.6	51.3	150	0.5	63.9	27.3	553	3.26	35.4	1.1	59.6	7.9	35	0.6	3.2	0.9	22	
STD OREAS262	Standard			0.6	111.3	50.2	144	0.5	61.8	26.6	512	3.25	34.1	1.0	60.3	7.8	34	0.6	3.4	0.9	19	
STD OREAS262	Standard			0.6	115.6	52.6	151	0.5	64.0	27.4	560	3.35	35.1	1.1	60.1	8.3	35	0.6	3.1	0.9	22	
STD OXB130	Standard		0.128																			
STD OXB130	Standard		0.129																			
STD OXG141	Standard		0.959																			
STD OXG141	Standard		0.960																			
STD OXN155	Standard		7.661																			
STD OXN155	Standard		7.631																			
STD OXG141 Expected			0.93																			
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
Prep Wash																						
ROCK-WHI	Prep Blank		<0.005	0.7	2.2	3.8	27	<0.1	1.5	3.9	397	1.81	1.2	0.4	<0.5	2.4	21	<0.1	<0.1	<0.1	21	
ROCK-WHI	Prep Blank		<0.005	0.7	2.1	2.9	28	<0.1	1.1	3.7	397	1.72	1.2	0.4	<0.5	2.3	22	<0.1	<0.1	<0.1	20	



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Project: Rude Creek
Report Date: February 22, 2021

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QUALITY CONTROL REPORT

WHI20000522.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2
STD DS11	Standard	1.01	0.068	15	57	0.81	386	0.080	<20	1.04	0.066	0.39	2.6	0.26	2.8	4.8	0.25	5	2.2	4.7
STD DS11	Standard	1.08	0.069	17	60	0.85	394	0.090	<20	1.16	0.074	0.40	3.0	0.26	3.2	5.0	0.29	6	2.3	4.9
STD OREAS262	Standard	3.07	0.040	15	44	1.21	245	0.003	<20	1.22	0.072	0.33	0.1	0.15	3.2	0.5	0.28	4	0.5	0.2
STD OREAS262	Standard	3.04	0.039	14	42	1.20	223	0.003	<20	1.20	0.070	0.30	0.1	0.14	3.0	0.4	0.26	4	<0.5	0.3
STD OREAS262	Standard	2.89	0.038	13	40	1.14	222	0.003	<20	1.14	0.067	0.27	0.1	0.16	3.0	0.4	0.23	4	0.6	0.2
STD OREAS262	Standard	3.07	0.039	15	42	1.20	228	0.003	<20	1.18	0.068	0.31	0.1	0.14	3.1	0.5	0.27	4	0.5	0.2
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																				
ROCK-WHI	Prep Blank	0.56	0.036	6	5	0.40	55	0.073	<20	0.86	0.086	0.10	2.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.55	0.037	6	4	0.41	55	0.076	<20	0.87	0.093	0.10	1.3	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Client: **0890763 B.C. Ltd**
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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: January 16, 2021
Report Date: January 27, 2021
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI20000523.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	138	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	138	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
Report Date: January 27, 2021

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI20000523.1

Method Analyte	Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
B0053694	RC Chip	1.92	0.028	2.1	15.3	6.0	38	0.2	4.7	6.9	418	2.51	51.1	5.3	8.2	13.3	69	<0.1	0.7	1.5	26
B0053686	RC Chip	3.42	0.020	1.8	3.7	5.9	33	0.2	7.4	11.0	418	3.38	48.6	3.9	9.3	9.8	246	<0.1	0.8	1.9	36
B0053687	RC Chip	1.71	0.025	2.1	8.7	8.2	34	0.3	6.3	10.7	368	3.22	71.3	4.7	12.6	10.0	165	0.1	0.9	2.6	28
B0053688	RC Chip	5.16	0.026	1.5	11.4	7.6	34	0.2	4.5	7.3	388	2.27	69.0	4.6	4.9	14.6	249	<0.1	0.8	0.9	29
B0053689	RC Chip	3.65	0.018	1.8	27.4	7.7	35	0.3	4.2	6.9	408	2.13	64.1	5.5	4.4	13.4	202	<0.1	0.8	2.3	32
B0053690	RC Chip	3.33	0.010	2.6	20.1	7.8	38	0.2	4.1	6.0	527	2.24	58.6	4.6	3.4	13.0	185	0.1	0.7	1.5	30
B0053691	RC Chip	1.52	0.023	2.8	21.4	7.1	37	0.3	4.6	7.6	502	2.39	64.1	6.0	8.1	13.4	127	<0.1	0.8	2.4	27
B0053692	RC Chip	3.33	0.029	2.6	7.8	6.8	29	0.3	3.6	5.1	431	2.39	47.1	5.3	16.9	14.0	48	<0.1	0.7	2.1	20
B0053693	RC Chip	3.29	0.036	5.6	6.9	4.3	29	0.2	5.3	9.8	363	2.54	72.0	6.7	35.3	14.5	41	<0.1	0.7	2.5	17
B0053695	RC Chip	1.29	0.016	2.1	11.0	3.9	33	0.2	4.4	6.6	380	2.36	58.2	6.4	7.3	13.6	49	<0.1	0.9	1.2	22
B0053696	RC Chip	1.09	0.033	2.0	26.7	5.5	34	0.3	4.7	7.8	496	2.47	91.2	7.0	35.4	14.5	105	<0.1	0.7	3.2	21
B0053697	RC Chip	1.23	0.041	1.9	36.5	4.1	28	0.3	4.0	6.1	425	1.92	98.6	5.3	9.0	15.3	60	<0.1	0.6	3.9	16
B0053698	RC Chip	1.46	0.049	2.9	9.7	4.6	28	0.2	5.2	11.2	339	2.82	178.4	6.3	51.9	14.4	27	<0.1	1.2	2.1	10
B0053702	RC Chip	2.84	0.026	2.9	19.1	44.6	39	0.4	6.4	5.0	406	2.24	27.6	6.5	30.3	16.2	37	0.2	3.0	6.1	26
B0053703	RC Chip	2.02	0.030	3.5	14.8	12.8	25	0.3	4.1	3.1	274	2.23	64.4	13.4	19.4	16.2	42	<0.1	2.5	2.7	19
B0053704	RC Chip	2.41	0.009	1.5	15.4	6.4	30	0.1	4.7	7.7	545	1.90	13.6	4.8	2.3	17.1	19	0.1	2.6	1.3	19
B0053705	RC Chip	1.25	0.007	1.6	20.7	7.2	37	0.2	5.0	8.4	494	2.45	11.3	3.3	1.2	15.9	46	<0.1	3.0	0.6	39
B0053706	RC Chip	2.35	0.006	4.6	19.6	6.6	33	0.2	4.5	5.0	501	1.95	9.2	3.4	2.4	14.1	31	<0.1	3.3	0.3	29
B0053707	RC Chip	2.74	0.005	1.5	15.7	4.0	34	<0.1	4.7	5.9	632	2.14	7.6	4.5	<0.5	15.7	118	<0.1	2.8	0.2	22
B0053708	RC Chip	1.89	0.006	1.5	10.6	3.5	33	<0.1	4.4	4.8	553	1.90	6.9	2.8	1.3	15.0	64	<0.1	2.7	0.2	19
B0053709	RC Chip	1.75	0.015	2.2	12.8	7.7	27	0.2	5.2	14.1	759	2.10	34.4	4.5	11.1	16.2	46	0.2	1.7	1.3	13
B0053710	RC Chip	0.89	0.031	5.4	11.2	10.6	35	0.5	4.7	12.6	573	2.81	76.2	11.2	32.4	15.8	26	0.2	2.2	3.5	15
B0053711	RC Chip	1.25	0.023	2.3	18.4	7.2	37	0.3	4.7	12.6	843	2.55	44.3	8.2	16.5	16.8	18	0.2	1.6	2.3	14
B0053712	RC Chip	1.56	0.022	2.4	28.8	11.0	33	0.4	4.8	12.6	537	1.91	32.6	5.7	10.6	16.3	47	0.3	1.2	2.6	16
B0053713	RC Chip	1.41	0.196	4.9	201.3	223.0	29	12.3	3.4	10.2	405	3.08	102.4	12.0	43.5	16.4	81	0.3	1.9	72.8	31
B695327	Rock DUP		0.231	4.8	196.3	216.5	29	12.2	3.5	10.1	400	3.01	102.8	11.7	42.8	16.1	80	0.3	1.9	70.1	30
B0053714	RC Chip	1.53	0.193	2.0	134.5	81.6	39	3.3	4.5	9.3	468	2.89	49.0	6.1	167.1	15.9	125	0.3	1.7	28.7	46
B0053715	RC Chip	1.91	0.014	1.9	46.6	9.8	38	0.8	4.4	4.9	457	2.53	10.8	5.6	2.2	15.0	114	0.1	1.0	3.9	46
B0053716	RC Chip	0.68	0.024	1.7	49.0	7.4	38	0.5	4.7	10.3	533	2.78	24.4	5.2	17.2	15.7	111	<0.1	1.4	8.5	38
B0053717	RC Chip	1.58	0.013	1.6	20.5	6.8	38	0.2	4.7	6.3	508	2.60	9.2	4.2	1.5	15.1	506	<0.1	1.5	3.8	45



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Project: Rude Creek
Report Date: January 27, 2021

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CERTIFICATE OF ANALYSIS

WHI20000523.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0053694	RC Chip	1.13	0.066	14	11	0.50	72	0.021	<20	1.03	0.035	0.18	2.1	<0.01	1.8	0.2	0.92	4	<0.5	<0.2
B0053686	RC Chip	1.33	0.101	15	12	0.63	143	0.027	<20	1.47	0.057	0.29	1.1	<0.01	3.0	0.3	1.92	4	<0.5	0.2
B0053687	RC Chip	1.07	0.080	14	10	0.53	98	0.019	<20	1.25	0.041	0.21	1.4	<0.01	2.0	0.2	2.02	4	<0.5	0.2
B0053688	RC Chip	1.29	0.064	12	10	0.51	96	0.013	<20	1.36	0.047	0.17	0.8	<0.01	1.9	0.2	0.65	4	<0.5	<0.2
B0053689	RC Chip	1.37	0.064	13	10	0.52	80	0.023	<20	1.38	0.045	0.13	1.0	<0.01	2.0	0.1	0.42	4	<0.5	<0.2
B0053690	RC Chip	1.95	0.062	11	11	0.57	66	0.021	<20	1.44	0.040	0.12	0.9	<0.01	1.9	0.1	0.41	5	<0.5	<0.2
B0053691	RC Chip	1.75	0.069	13	10	0.50	73	0.018	<20	1.28	0.032	0.19	1.2	<0.01	1.8	0.2	0.73	4	<0.5	<0.2
B0053692	RC Chip	1.59	0.065	14	9	0.37	68	0.003	<20	1.05	0.026	0.23	0.7	<0.01	1.5	0.2	0.96	4	<0.5	<0.2
B0053693	RC Chip	1.10	0.070	16	9	0.35	89	0.007	<20	0.92	0.028	0.27	2.3	<0.01	1.6	0.3	1.57	3	<0.5	0.2
B0053695	RC Chip	0.92	0.070	10	11	0.46	79	0.024	<20	1.05	0.035	0.21	1.1	<0.01	1.6	0.2	0.65	4	<0.5	<0.2
B0053696	RC Chip	1.82	0.073	14	10	0.43	95	0.006	<20	1.25	0.032	0.25	0.6	<0.01	1.7	0.3	0.97	4	<0.5	<0.2
B0053697	RC Chip	1.87	0.069	16	8	0.32	76	0.003	<20	0.99	0.028	0.25	0.6	<0.01	1.3	0.3	0.70	3	<0.5	<0.2
B0053698	RC Chip	0.98	0.070	18	8	0.34	98	0.004	<20	0.98	0.020	0.33	13.2	<0.01	1.3	0.3	1.63	3	<0.5	<0.2
B0053702	RC Chip	0.34	0.066	11	11	0.53	63	0.093	<20	1.14	0.036	0.15	0.9	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2
B0053703	RC Chip	0.24	0.056	13	8	0.37	89	0.057	<20	0.97	0.045	0.22	1.0	0.01	1.7	0.2	0.11	3	<0.5	<0.2
B0053704	RC Chip	0.55	0.064	13	10	0.49	86	0.067	<20	1.01	0.035	0.23	2.7	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
B0053705	RC Chip	0.68	0.062	17	14	0.65	145	0.112	<20	1.14	0.053	0.23	3.8	<0.01	3.2	0.3	0.07	5	<0.5	<0.2
B0053706	RC Chip	0.82	0.059	12	12	0.58	52	0.080	<20	1.08	0.042	0.14	2.2	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2
B0053707	RC Chip	1.00	0.058	13	11	0.58	82	0.027	<20	1.34	0.039	0.18	1.3	<0.01	1.8	0.2	<0.05	4	<0.5	<0.2
B0053708	RC Chip	1.12	0.060	12	10	0.54	70	0.023	<20	1.21	0.032	0.18	1.0	<0.01	1.5	0.2	<0.05	4	<0.5	<0.2
B0053709	RC Chip	0.71	0.063	19	10	0.47	89	0.003	<20	1.15	0.026	0.26	0.8	0.01	1.1	0.3	0.09	3	<0.5	<0.2
B0053710	RC Chip	0.33	0.059	14	10	0.55	74	0.005	<20	1.10	0.025	0.21	1.4	<0.01	1.2	0.2	0.25	4	<0.5	0.4
B0053711	RC Chip	0.46	0.063	18	9	0.57	80	0.003	<20	1.13	0.026	0.23	1.2	<0.01	1.3	0.2	0.26	4	<0.5	0.2
B0053712	RC Chip	0.68	0.064	19	9	0.42	80	0.002	<20	1.12	0.023	0.24	0.5	<0.01	1.4	0.3	0.06	4	<0.5	<0.2
B0053713	RC Chip	0.46	0.058	18	9	0.37	68	<0.001	<20	1.51	0.020	0.25	0.4	<0.01	2.1	0.3	<0.05	5	<0.5	0.4
B695327	Rock DUP	0.45	0.057	18	9	0.36	61	<0.001	<20	1.43	0.019	0.23	0.6	<0.01	2.0	0.3	<0.05	5	<0.5	0.4
B0053714	RC Chip	0.65	0.059	21	12	0.63	157	0.037	<20	1.62	0.047	0.25	1.1	<0.01	3.9	0.4	0.17	6	<0.5	<0.2
B0053715	RC Chip	0.80	0.057	21	14	0.63	280	0.122	<20	1.21	0.067	0.37	1.9	<0.01	3.7	0.5	0.14	5	<0.5	<0.2
B0053716	RC Chip	1.12	0.061	19	14	0.68	92	0.063	<20	1.40	0.041	0.23	5.5	<0.01	2.9	0.4	0.61	5	<0.5	<0.2
B0053717	RC Chip	1.10	0.064	22	15	0.70	309	0.108	<20	1.30	0.053	0.29	1.6	<0.01	3.3	0.4	0.16	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0053718	RC Chip	1.32	0.008	1.8	14.3	4.3	32	0.2	4.7	5.9	456	2.47	10.3	3.7	1.0	14.7	46	<0.1	2.8	0.8	35
B0053719	RC Chip	1.34	0.009	2.4	18.5	6.3	35	0.2	4.7	7.9	474	2.48	23.5	3.8	3.3	15.5	40	<0.1	2.9	0.3	35
B0053720	RC Chip	1.56	0.037	14.1	10.4	6.8	34	0.2	4.6	6.6	434	2.44	59.3	3.8	31.7	14.3	20	0.1	3.5	1.4	25
B0053721	RC Chip	1.44	0.015	2.8	18.7	8.4	34	0.2	5.5	8.8	479	2.07	93.5	3.5	3.8	16.1	18	0.2	4.5	0.4	19
B0053722	RC Chip	1.49	0.010	16.6	13.9	10.5	38	0.2	5.5	9.5	541	2.46	75.8	3.3	1.9	16.3	221	0.4	3.6	0.2	33
B0053723	RC Chip	1.37	0.007	1.6	10.1	10.2	32	0.1	4.3	5.3	422	1.81	49.4	1.7	1.1	13.2	181	0.1	3.6	<0.1	23
B0053724	RC Chip	1.33	0.006	2.8	5.6	7.4	33	<0.1	4.6	6.3	458	2.35	24.0	3.5	1.8	16.8	90	0.1	3.9	<0.1	30
B0053725	RC Chip	1.71	0.006	1.4	3.2	6.1	31	<0.1	4.4	5.2	439	2.11	16.8	2.8	<0.5	15.4	105	<0.1	4.0	<0.1	23
B0053726	RC Chip	1.53	0.007	1.4	9.8	11.3	36	0.2	4.4	5.1	475	2.10	28.8	1.8	0.8	14.4	107	0.2	3.4	0.1	26
B0053727	RC Chip	1.66	0.007	1.2	11.4	4.6	30	0.1	3.9	4.6	424	1.94	14.8	1.7	<0.5	14.5	43	<0.1	3.1	0.4	22
B0053728	RC Chip	1.85	0.122	1.5	64.6	335.6	29	1.6	3.9	7.7	424	2.06	24.9	3.9	283.8	15.5	149	0.2	1.8	15.3	19
B0053729	RC Chip	1.75	0.211	1.4	157.2	769.1	31	2.7	4.1	10.0	480	2.24	28.2	4.3	33.8	16.2	169	0.2	2.0	18.2	23
B0053730	RC Chip	1.48	0.017	1.6	35.3	11.3	32	0.4	4.3	5.0	425	2.05	20.3	2.7	7.8	15.4	122	<0.1	2.6	2.0	25
B0053731	RC Chip	1.88	0.024	1.4	22.6	12.1	41	0.3	5.3	6.8	474	2.32	54.0	2.9	49.4	15.8	48	0.1	2.8	0.8	35
B0053732	RC Chip	1.93	0.033	1.5	42.8	9.7	38	0.5	5.0	11.3	463	2.31	34.0	2.9	12.3	15.2	60	0.2	3.4	3.8	34
B0053733	RC Chip	1.67	0.130	2.1	63.0	6.7	37	0.5	4.9	9.9	431	2.74	18.2	5.1	28.8	15.7	44	<0.1	2.3	8.9	46
B0053734	RC Chip	1.74	0.008	1.9	7.9	5.2	38	<0.1	4.9	5.3	433	2.58	11.7	4.2	<0.5	15.4	33	<0.1	2.1	0.4	44
B0053735	RC Chip	1.86	0.012	1.6	6.4	5.5	38	<0.1	4.6	9.2	464	2.51	19.8	4.3	3.5	14.9	66	<0.1	2.6	0.4	37
B0053736	RC Chip	1.88	0.033	1.8	12.3	8.7	43	0.2	4.8	5.0	515	2.51	35.1	4.5	29.1	14.8	108	0.1	2.6	2.0	38
B0053737	RC Chip	3.69	0.015	2.0	7.4	7.6	40	0.1	5.1	8.6	504	2.51	15.5	4.9	2.2	15.6	41	<0.1	1.9	0.3	36
B0053738	RC Chip	2.04	0.027	1.9	7.0	7.5	46	<0.1	4.9	9.3	483	2.55	15.1	4.6	1.7	16.1	48	<0.1	2.0	0.3	37
B0053739	RC Chip	1.77	0.009	2.1	8.0	6.8	47	0.1	4.9	6.4	496	2.59	10.3	4.5	3.7	16.7	140	<0.1	1.9	0.3	41
B0053740	RC Chip	2.29	0.996	2.4	81.2	257.3	59	6.0	5.1	20.8	499	3.79	48.6	6.1	2233.7	16.9	57	0.4	1.7	20.9	37
B0053741	RC Chip	1.91	0.146	2.9	50.8	17.4	42	0.8	3.9	13.3	432	2.46	42.2	11.0	93.7	15.8	63	0.2	1.5	6.6	19
B0053742	RC Chip	1.97	0.009	1.2	7.1	6.4	46	0.1	4.2	5.5	551	2.19	5.8	2.1	<0.5	14.7	32	<0.1	1.7	0.4	24
B0053743	RC Chip	2.86	0.006	1.4	3.3	9.8	51	<0.1	4.5	6.7	543	2.24	4.6	2.2	<0.5	15.4	27	<0.1	2.0	0.3	27
B0053744	RC Chip	2.00	0.009	1.5	7.0	6.0	50	<0.1	4.4	7.8	606	2.29	4.2	2.4	<0.5	16.1	28	0.1	1.8	0.1	25
B0053745	RC Chip	4.52	0.008	1.3	15.3	6.1	44	0.1	4.4	7.3	578	2.20	5.8	2.3	<0.5	14.8	32	0.1	1.6	0.4	23
B0053746	RC Chip	1.79	0.019	1.6	14.8	14.2	42	0.4	4.8	7.5	570	2.36	19.3	4.1	42.1	15.2	33	<0.1	1.8	1.1	21
B0053747	RC Chip	2.03	0.012	2.0	9.2	8.0	31	0.5	1.8	6.1	460	1.52	8.9	1.8	3.9	8.1	58	<0.1	1.3	4.9	4



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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0053718	RC Chip	0.75	0.063	17	15	0.58	110	0.087	<20	1.08	0.046	0.20	2.0	<0.01	2.6	0.2	<0.05	4	<0.5	<0.2
B0053719	RC Chip	0.82	0.064	18	14	0.63	70	0.083	<20	1.14	0.040	0.15	2.7	<0.01	2.8	0.2	0.16	4	<0.5	<0.2
B0053720	RC Chip	0.64	0.065	13	13	0.58	64	0.063	<20	1.08	0.035	0.17	3.1	<0.01	1.9	0.2	0.34	4	<0.5	<0.2
B0053721	RC Chip	0.61	0.065	12	10	0.53	70	0.075	<20	1.08	0.033	0.17	2.7	<0.01	1.8	0.1	0.20	4	<0.5	<0.2
B0053722	RC Chip	0.98	0.072	16	12	0.65	109	0.083	<20	1.41	0.043	0.13	1.2	<0.01	2.7	0.1	0.12	5	<0.5	<0.2
B0053723	RC Chip	0.84	0.057	11	10	0.46	95	0.067	<20	1.43	0.041	0.13	2.4	<0.01	1.5	0.1	<0.05	4	<0.5	<0.2
B0053724	RC Chip	0.82	0.061	15	13	0.57	78	0.093	<20	1.21	0.039	0.12	2.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
B0053725	RC Chip	0.85	0.064	11	10	0.52	72	0.077	<20	1.32	0.037	0.15	1.3	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
B0053726	RC Chip	0.94	0.059	11	11	0.58	59	0.079	<20	1.62	0.048	0.10	1.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
B0053727	RC Chip	0.86	0.063	10	9	0.55	50	0.064	<20	1.38	0.040	0.13	1.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
B0053728	RC Chip	1.52	0.060	17	9	0.38	83	0.004	<20	1.33	0.036	0.20	0.8	<0.01	1.6	0.2	0.38	4	<0.5	<0.2
B0053729	RC Chip	1.71	0.062	18	9	0.44	87	0.005	<20	1.30	0.028	0.22	1.2	<0.01	1.9	0.2	0.40	4	<0.5	0.3
B0053730	RC Chip	1.06	0.063	13	11	0.53	64	0.063	<20	1.35	0.043	0.13	2.0	<0.01	2.0	0.2	0.09	4	<0.5	<0.2
B0053731	RC Chip	0.83	0.062	18	11	0.64	48	0.099	<20	1.32	0.045	0.10	2.3	<0.01	2.6	0.1	0.14	5	<0.5	<0.2
B0053732	RC Chip	0.67	0.068	18	12	0.66	53	0.100	<20	1.25	0.041	0.11	1.9	<0.01	2.6	0.1	0.17	5	<0.5	<0.2
B0053733	RC Chip	0.66	0.068	24	15	0.68	194	0.137	<20	1.11	0.064	0.26	3.2	<0.01	3.4	0.3	0.20	5	<0.5	<0.2
B0053734	RC Chip	0.67	0.064	22	14	0.65	132	0.120	<20	1.06	0.055	0.19	2.5	<0.01	3.1	0.2	0.06	4	<0.5	<0.2
B0053735	RC Chip	0.94	0.069	16	12	0.73	104	0.094	<20	1.35	0.046	0.18	1.7	<0.01	2.4	0.2	0.15	5	<0.5	<0.2
B0053736	RC Chip	1.42	0.068	20	12	0.73	72	0.071	<20	1.45	0.051	0.14	1.3	<0.01	2.8	0.3	0.11	5	<0.5	0.8
B0053737	RC Chip	0.99	0.067	17	13	0.71	54	0.091	<20	1.23	0.059	0.12	2.4	<0.01	2.3	0.2	0.11	5	<0.5	<0.2
B0053738	RC Chip	0.95	0.067	16	13	0.71	112	0.111	<20	1.23	0.059	0.18	2.2	<0.01	2.7	0.2	0.08	5	<0.5	<0.2
B0053739	RC Chip	0.92	0.066	21	14	0.70	146	0.117	<20	1.26	0.059	0.19	1.9	<0.01	2.9	0.3	0.06	5	<0.5	<0.2
B0053740	RC Chip	1.69	0.060	19	11	0.60	105	0.037	<20	1.24	0.028	0.26	1.5	<0.01	3.0	0.4	2.19	5	<0.5	0.6
B0053741	RC Chip	1.37	0.064	14	8	0.44	81	0.010	<20	1.25	0.021	0.30	1.0	<0.01	1.9	0.5	0.99	4	<0.5	<0.2
B0053742	RC Chip	1.50	0.070	14	11	0.65	49	0.041	<20	1.45	0.032	0.23	0.9	<0.01	2.3	0.3	<0.05	4	<0.5	<0.2
B0053743	RC Chip	1.24	0.072	11	12	0.74	46	0.080	<20	1.34	0.029	0.20	1.4	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
B0053744	RC Chip	1.39	0.071	11	11	0.80	44	0.069	<20	1.34	0.027	0.19	1.3	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
B0053745	RC Chip	1.40	0.069	14	10	0.59	52	0.036	<20	1.24	0.027	0.21	0.7	<0.01	2.2	0.3	<0.05	4	<0.5	<0.2
B0053746	RC Chip	1.43	0.070	13	10	0.55	58	0.028	<20	1.27	0.029	0.23	0.7	<0.01	2.2	0.3	0.07	4	<0.5	<0.2
B0053747	RC Chip	1.78	0.054	23	8	0.34	85	0.007	<20	0.90	0.044	0.24	0.3	<0.01	0.7	0.3	0.05	4	<0.5	<0.2



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Method Analyte	Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
B0053748	RC Chip	3.67	0.040	3.9	1.3	15.1	24	0.3	1.4	21.9	428	1.52	20.8	1.7	23.8	8.1	55	0.2	0.6	5.1	3
B0053749	RC Chip	1.61	0.016	2.3	2.8	12.5	23	0.2	1.4	10.4	401	1.22	9.3	1.3	7.3	7.9	63	<0.1	0.6	2.0	3
B0053750	RC Chip	1.82	0.028	17.2	11.5	11.2	33	1.3	2.9	6.9	452	1.77	24.4	5.2	38.1	14.0	89	<0.1	2.0	3.6	14
B0053751	RC Chip	3.09	0.009	8.9	3.0	4.0	42	0.1	3.9	7.3	668	2.49	5.7	5.3	<0.5	16.7	72	<0.1	1.4	0.3	24
B0053752	RC Chip	2.07	0.006	2.3	2.7	6.4	43	<0.1	3.9	5.1	502	2.05	4.7	2.8	2.8	15.5	55	<0.1	2.2	0.2	24
B0053753	RC Chip	1.57	0.017	1.5	4.1	12.5	47	0.2	4.1	5.1	457	1.96	9.5	2.0	3.0	16.7	30	0.3	2.7	0.5	28
B0053754	RC Chip	1.83	0.011	1.7	10.2	16.2	44	0.2	3.9	7.7	441	2.10	24.7	4.7	2.0	14.7	38	0.1	2.8	0.4	28
B0053755	RC Chip	2.55	0.015	4.0	18.0	21.0	42	0.4	3.7	7.0	423	2.15	51.3	3.1	6.2	15.0	130	0.2	1.9	0.6	29
B0053756	RC Chip	1.64	0.009	3.4	11.3	14.5	44	0.3	4.5	6.9	436	2.22	35.8	3.8	7.4	14.3	74	0.2	2.6	0.5	30
B0053757	RC Chip	1.74	0.009	2.1	11.7	11.8	41	0.3	4.7	8.3	432	2.25	24.0	3.3	3.4	16.1	68	0.1	3.1	0.5	34
B0053758	RC Chip	1.75	0.016	2.0	4.9	8.7	45	0.2	4.5	8.5	439	2.36	36.5	4.0	6.4	15.0	60	0.1	2.8	0.8	32
B0053759	RC Chip	2.51	0.007	2.0	6.9	10.0	39	0.2	4.3	7.9	431	2.23	19.1	3.9	2.7	16.8	51	<0.1	2.2	0.6	37
B0053760	RC Chip	2.55	0.006	2.2	5.4	7.4	36	<0.1	4.9	8.5	450	2.53	14.0	3.6	0.9	16.2	96	<0.1	1.5	0.2	44
B0053761	RC Chip	2.40	0.010	2.7	4.5	6.9	40	<0.1	5.0	8.2	474	2.50	15.4	3.4	2.3	16.1	61	0.1	2.0	0.2	41
B0053762	RC Chip	2.39	0.007	1.7	15.0	19.6	38	1.0	4.5	6.2	460	2.38	13.9	3.1	2.3	14.2	45	<0.1	2.5	8.5	37
B0053763	RC Chip	1.79	0.005	2.0	9.6	9.3	39	0.3	5.0	6.3	466	2.58	13.6	3.3	203.3	16.1	58	<0.1	2.1	2.0	43
B0053764	RC Chip	1.86	0.005	2.0	8.8	8.4	39	0.2	4.8	6.6	461	2.57	12.8	3.3	1.6	15.8	61	<0.1	1.8	1.1	45
B0053765	RC Chip	1.71	0.022	2.6	13.1	8.7	36	0.3	4.9	8.9	452	2.49	14.1	3.7	23.6	15.7	45	<0.1	1.9	1.3	40
B0053766	RC Chip	1.37	0.005	2.2	7.5	7.1	42	0.1	4.8	7.1	504	2.63	12.0	3.9	1.5	14.6	48	0.1	2.1	0.7	42
B0053767	RC Chip	1.37	<0.005	1.7	2.8	6.1	44	<0.1	4.9	6.5	536	2.71	11.4	4.1	1.1	13.7	49	<0.1	2.6	0.4	43
B0054092	RC Chip	1.26	0.061	3.0	20.0	355.8	28	2.5	8.5	5.7	276	2.37	200.8	2.3	82.1	7.3	36	0.2	6.6	6.1	24
B0054093	RC Chip	2.16	0.184	2.1	16.2	322.1	18	2.7	4.2	3.0	155	2.58	208.1	1.4	193.3	12.7	20	0.2	3.6	5.8	17
B0054094	RC Chip	2.28	0.101	2.3	94.1	374.6	30	2.0	3.1	4.4	222	2.96	116.3	1.9	47.6	15.1	21	<0.1	1.7	4.3	13
B0054095	RC Chip	3.27	0.025	1.1	72.2	46.4	39	0.4	4.8	6.0	396	2.24	41.8	2.3	11.0	13.8	22	0.4	0.8	2.5	18
B0054096	RC Chip	2.73	0.027	6.5	93.7	31.0	25	0.7	3.8	4.4	244	3.44	298.4	4.0	18.7	22.1	34	0.6	1.7	4.2	19
B0054097	RC Chip	3.47	0.048	34.3	67.4	11.6	14	0.6	2.5	1.9	157	3.97	409.5	4.0	42.2	24.8	68	0.4	2.0	3.5	22
B0054098	RC Chip	3.19	0.039	94.6	46.8	13.3	12	0.4	1.9	1.3	142	3.90	439.7	3.8	24.3	22.5	133	0.3	2.4	2.2	19
B0054099	RC Chip	3.48	0.062	25.2	53.1	24.4	12	1.7	1.8	1.0	130	2.82	691.1	3.8	43.0	20.3	66	0.2	1.8	16.8	16
B0054100	RC Chip	1.81	0.008	2.7	62.9	13.6	51	0.2	5.3	10.0	599	2.25	175.2	5.6	3.2	15.7	28	0.7	1.8	1.3	24
B0054101	RC Chip	2.30	0.022	2.0	57.9	14.8	41	0.4	3.8	4.7	449	2.28	52.6	5.9	3.7	16.4	92	0.3	1.7	6.8	26



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0053748	RC Chip	1.79	0.050	16	4	0.23	83	0.002	<20	0.75	0.040	0.24	0.5	<0.01	0.5	0.3	0.36	3	<0.5	<0.2
B0053749	RC Chip	1.75	0.053	23	6	0.23	86	0.003	<20	0.71	0.041	0.24	0.4	<0.01	0.6	0.2	0.09	3	<0.5	<0.2
B0053750	RC Chip	1.59	0.068	18	6	0.43	91	0.018	<20	1.04	0.031	0.26	0.5	<0.01	1.5	0.3	0.11	4	<0.5	<0.2
B0053751	RC Chip	2.16	0.072	13	9	0.74	81	0.048	<20	1.42	0.028	0.27	0.7	<0.01	2.4	0.4	<0.05	5	<0.5	<0.2
B0053752	RC Chip	1.61	0.066	13	10	0.58	69	0.065	<20	1.18	0.035	0.23	1.3	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2
B0053753	RC Chip	1.28	0.071	16	12	0.58	52	0.080	<20	1.12	0.037	0.17	1.9	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
B0053754	RC Chip	1.38	0.065	11	9	0.67	65	0.072	<20	1.28	0.047	0.23	1.7	<0.01	2.2	0.3	0.20	5	<0.5	<0.2
B0053755	RC Chip	1.29	0.061	10	9	0.60	59	0.063	<20	1.76	0.074	0.17	1.3	<0.01	2.2	0.2	0.16	5	<0.5	<0.2
B0053756	RC Chip	1.16	0.067	13	12	0.64	55	0.090	<20	1.46	0.061	0.16	2.0	<0.01	2.4	0.2	0.13	5	<0.5	<0.2
B0053757	RC Chip	0.97	0.069	12	14	0.65	50	0.096	<20	1.29	0.061	0.16	2.8	<0.01	2.5	0.2	0.12	5	<0.5	<0.2
B0053758	RC Chip	1.24	0.078	11	14	0.73	47	0.098	<20	1.36	0.046	0.13	2.2	<0.01	2.6	0.2	0.27	5	<0.5	<0.2
B0053759	RC Chip	0.99	0.071	16	15	0.69	64	0.100	<20	1.22	0.052	0.14	2.8	<0.01	2.5	0.2	0.11	4	<0.5	<0.2
B0053760	RC Chip	0.94	0.069	20	17	0.68	122	0.116	<20	1.28	0.068	0.19	2.7	<0.01	3.2	0.2	0.10	5	<0.5	<0.2
B0053761	RC Chip	0.92	0.075	18	17	0.71	60	0.107	<20	1.33	0.052	0.14	2.5	<0.01	3.1	0.2	0.09	5	<0.5	<0.2
B0053762	RC Chip	1.08	0.068	14	13	0.73	42	0.107	<20	1.43	0.052	0.15	2.1	<0.01	2.6	0.3	0.08	5	<0.5	<0.2
B0053763	RC Chip	0.99	0.067	20	16	0.75	104	0.121	<20	1.30	0.059	0.20	2.3	<0.01	3.3	0.3	0.07	5	<0.5	<0.2
B0053764	RC Chip	1.02	0.073	20	16	0.76	114	0.125	<20	1.30	0.067	0.22	2.2	<0.01	3.5	0.3	0.07	5	<0.5	<0.2
B0053765	RC Chip	0.99	0.071	18	18	0.74	49	0.107	<20	1.19	0.055	0.16	3.2	<0.01	3.0	0.3	0.12	5	<0.5	<0.2
B0053766	RC Chip	1.13	0.076	18	16	0.83	39	0.112	<20	1.37	0.047	0.14	2.8	<0.01	3.3	0.2	0.08	5	<0.5	<0.2
B0053767	RC Chip	1.23	0.078	15	15	0.89	40	0.116	<20	1.53	0.053	0.14	2.5	<0.01	3.4	0.2	0.07	6	<0.5	<0.2
B0054092	RC Chip	0.16	0.080	17	13	0.22	141	0.018	<20	0.89	0.018	0.34	12.3	<0.01	1.4	0.3	0.29	3	<0.5	0.8
B0054093	RC Chip	0.11	0.062	15	9	0.09	133	0.011	<20	0.49	0.018	0.40	0.6	<0.01	1.2	0.3	0.44	3	<0.5	0.7
B0054094	RC Chip	0.11	0.053	16	6	0.16	100	0.004	<20	0.75	0.018	0.37	0.7	<0.01	1.4	0.3	0.33	3	<0.5	0.3
B0054095	RC Chip	0.20	0.046	19	8	0.30	101	0.004	<20	1.14	0.025	0.29	0.6	<0.01	1.6	0.3	0.09	4	<0.5	<0.2
B0054096	RC Chip	0.17	0.070	20	7	0.25	118	0.002	<20	1.15	0.035	0.27	1.0	<0.01	1.5	0.3	0.18	4	<0.5	<0.2
B0054097	RC Chip	0.10	0.077	25	5	0.18	161	0.002	<20	0.81	0.073	0.29	0.7	<0.01	1.2	0.3	0.36	4	<0.5	<0.2
B0054098	RC Chip	0.09	0.073	25	6	0.18	192	0.002	<20	0.80	0.096	0.30	0.8	<0.01	1.2	0.2	0.50	4	<0.5	<0.2
B0054099	RC Chip	0.09	0.053	20	7	0.16	199	0.003	<20	0.77	0.064	0.33	0.4	<0.01	1.6	0.3	0.40	3	<0.5	<0.2
B0054100	RC Chip	0.27	0.047	14	10	0.35	77	0.024	<20	1.11	0.032	0.15	0.2	<0.01	1.9	0.1	0.15	4	<0.5	<0.2
B0054101	RC Chip	0.25	0.059	12	9	0.44	98	0.020	<20	1.34	0.034	0.16	0.2	<0.01	2.2	0.2	0.06	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0054102	RC Chip	2.86	0.016	1.9	57.0	12.5	30	0.3	3.4	2.4	331	2.22	46.1	6.6	23.4	16.9	24	0.2	2.0	16.1	20
B0054103	RC Chip	3.01	0.005	1.7	40.1	8.9	44	0.1	7.0	10.1	528	2.03	28.5	6.7	2.4	17.0	20	0.3	1.6	1.0	19
B0054104	RC Chip	2.61	0.042	2.1	19.8	8.4	37	0.2	5.4	8.9	421	2.51	54.9	8.8	17.8	16.9	24	0.2	1.3	3.0	19
B0054105	RC Chip	2.49	0.025	1.8	39.6	12.6	32	0.3	4.2	7.8	423	2.16	43.0	6.6	22.1	16.9	104	0.2	1.4	3.2	19
B0054106	RC Chip	2.29	0.044	1.8	38.5	17.2	35	0.8	4.0	6.5	346	2.38	45.7	5.4	42.0	16.0	70	0.2	1.3	4.8	17
B0054107	RC Chip	2.54	0.018	2.3	6.2	12.0	21	0.2	3.5	5.2	489	1.92	36.1	4.1	17.3	11.9	54	0.1	0.4	2.7	4
B0054108	RC Chip	2.00	0.022	2.0	16.6	39.2	18	1.4	2.7	4.3	196	4.49	38.9	4.6	14.7	15.1	41	0.2	1.0	5.0	6
B0054109	RC Chip	2.29	0.025	1.9	12.4	12.0	40	0.5	3.6	6.1	516	2.79	46.0	3.7	16.3	13.3	66	<0.1	0.9	4.6	16
B0054110	RC Chip	2.14	0.011	1.8	22.8	7.0	35	0.2	3.6	4.6	447	2.20	42.6	3.6	5.7	15.1	114	<0.1	0.7	1.9	20
B0054111	RC Chip	2.07	0.029	2.0	10.0	10.7	39	0.2	3.6	4.7	511	2.20	17.4	4.0	4.9	17.3	73	<0.1	1.2	1.3	27
B0054112	RC Chip	1.87	0.024	1.9	4.2	12.2	27	0.4	3.8	8.4	447	2.95	25.4	8.3	10.5	24.3	74	<0.1	0.8	3.1	22
B0054113	RC Chip	2.76	0.018	1.8	3.6	11.0	25	0.4	3.8	7.9	324	3.03	21.0	4.6	8.4	17.1	94	<0.1	0.7	3.2	20
B0054114	RC Chip	2.18	0.008	1.7	4.1	11.7	32	0.2	3.9	6.9	436	2.44	16.4	3.3	2.6	17.3	49	0.1	0.9	1.8	24
B0054115	RC Chip	2.72	0.009	1.8	7.4	8.0	32	0.1	4.5	5.4	433	1.92	9.5	5.5	1.8	16.1	24	0.1	1.7	1.3	23
B0054116	RC Chip	3.12	0.011	1.6	8.8	32.2	35	0.3	4.7	7.9	435	2.28	14.3	4.6	5.7	17.1	77	0.2	1.2	1.4	27
B0054117	RC Chip	3.03	0.009	1.9	8.6	6.6	47	0.1	4.7	9.8	527	2.70	12.3	3.9	4.5	17.2	70	0.4	1.1	1.4	42
B0054118	RC Chip	2.08	0.144	2.0	16.8	6.3	28	0.2	4.1	7.1	485	2.31	20.4	4.0	72.6	17.6	78	0.2	1.3	1.9	20
B0054119	RC Chip	2.73	0.034	1.8	7.6	5.1	24	0.2	4.2	8.6	408	2.17	26.3	3.6	87.9	16.1	21	<0.1	1.1	1.6	16
B0054120	RC Chip	2.81	0.018	2.0	18.8	6.2	32	0.3	4.6	4.8	454	2.28	12.7	2.2	2.8	17.0	21	0.1	1.6	2.6	23
B0054121	RC Chip	2.11	0.005	2.1	25.3	5.4	27	0.2	4.3	4.2	352	2.09	10.5	1.7	0.7	15.2	27	<0.1	1.9	1.4	24
B0054122	RC Chip	2.03	0.007	2.7	26.3	5.3	22	0.2	4.3	6.1	384	2.06	11.2	1.8	2.3	14.9	23	0.1	1.8	2.5	20
B0054123	RC Chip	2.76	0.014	3.0	31.7	9.6	23	0.2	3.9	6.2	411	1.94	16.2	2.9	6.5	16.2	21	<0.1	1.3	2.2	21
B0054124	RC Chip	2.82	0.012	2.3	35.6	9.8	31	0.2	4.1	4.6	503	2.20	10.1	2.8	1.8	17.0	21	0.1	1.4	5.6	23
B0054125	RC Chip	2.34	0.152	2.4	26.0	9.2	27	0.6	5.6	11.1	442	2.59	116.0	6.7	116.2	16.2	21	0.1	1.4	4.1	16
B0054126	RC Chip	2.73	0.051	2.1	19.0	24.8	25	0.3	4.3	7.7	549	2.14	24.9	4.8	48.8	15.4	29	0.1	1.2	2.3	17
B0054127	RC Chip	1.67	0.016	11.2	40.8	53.5	24	0.4	4.5	7.4	394	1.96	25.3	5.0	11.6	30.2	26	<0.1	1.5	1.2	15
B0054128	RC Chip	1.51	0.051	2.3	21.7	8.8	32	0.2	4.8	7.6	422	2.42	15.9	5.4	23.7	17.3	44	0.1	1.9	1.8	35
B0054129	RC Chip	1.91	0.009	2.2	13.5	6.1	33	0.2	4.3	4.9	467	2.47	10.8	3.9	2.9	16.5	29	0.2	1.7	1.5	35
B0054130	RC Chip	3.15	0.073	2.1	29.4	5.3	28	0.4	4.0	5.6	429	2.14	15.8	3.8	171.0	17.3	35	<0.1	1.5	4.3	22
B0054131	RC Chip	1.39	0.029	2.1	15.1	4.2	24	<0.1	4.8	11.6	416	2.23	20.8	4.7	8.9	16.4	23	<0.1	1.3	0.9	22



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0054102	RC Chip	0.18	0.058	13	8	0.35	86	0.034	<20	1.09	0.033	0.18	0.8	<0.01	1.8	0.2	0.08	4	<0.5	<0.2
B0054103	RC Chip	0.41	0.071	14	9	0.38	83	0.015	<20	1.18	0.034	0.20	0.2	<0.01	2.1	0.2	0.07	4	<0.5	<0.2
B0054104	RC Chip	0.69	0.069	15	9	0.45	84	0.019	<20	1.04	0.035	0.22	1.2	<0.01	2.0	0.2	0.61	4	<0.5	0.5
B0054105	RC Chip	0.49	0.063	19	7	0.34	143	0.010	<20	1.11	0.044	0.28	0.5	<0.01	2.0	0.3	0.22	4	<0.5	<0.2
B0054106	RC Chip	0.24	0.061	19	8	0.34	111	0.008	<20	1.01	0.064	0.28	0.4	<0.01	1.7	0.3	0.35	4	<0.5	0.4
B0054107	RC Chip	1.54	0.045	19	4	0.21	120	0.002	<20	0.74	0.022	0.28	0.4	<0.01	0.7	0.3	1.07	2	<0.5	0.3
B0054108	RC Chip	0.98	0.084	10	6	0.17	82	0.002	<20	0.65	0.075	0.26	1.2	<0.01	0.8	0.2	3.62	2	<0.5	0.5
B0054109	RC Chip	1.17	0.058	16	9	0.51	81	0.008	<20	1.00	0.031	0.23	0.8	<0.01	1.4	0.3	1.11	4	<0.5	0.3
B0054110	RC Chip	1.10	0.072	16	10	0.44	104	0.005	<20	0.97	0.027	0.21	0.7	<0.01	1.6	0.3	0.35	4	<0.5	<0.2
B0054111	RC Chip	1.21	0.066	15	11	0.47	83	0.014	<20	0.99	0.036	0.18	0.8	<0.01	1.9	0.2	0.39	4	<0.5	<0.2
B0054112	RC Chip	1.28	0.061	14	11	0.36	89	0.012	<20	0.84	0.044	0.19	1.5	<0.01	1.8	0.2	1.46	3	<0.5	0.7
B0054113	RC Chip	1.48	0.063	15	8	0.39	94	0.005	<20	1.02	0.034	0.21	1.2	<0.01	1.6	0.2	2.01	4	<0.5	0.6
B0054114	RC Chip	0.95	0.064	13	10	0.48	74	0.011	<20	0.97	0.031	0.18	0.7	<0.01	2.0	0.2	0.87	4	<0.5	0.3
B0054115	RC Chip	0.90	0.063	11	12	0.43	76	0.024	<20	0.98	0.043	0.21	0.8	<0.01	2.1	0.2	0.28	4	<0.5	<0.2
B0054116	RC Chip	0.98	0.068	15	11	0.47	74	0.018	<20	1.20	0.041	0.17	0.9	<0.01	2.2	0.2	0.33	4	<0.5	<0.2
B0054117	RC Chip	0.78	0.067	20	14	0.61	109	0.052	<20	1.15	0.055	0.21	5.7	<0.01	3.4	0.2	0.23	5	<0.5	<0.2
B0054118	RC Chip	0.77	0.065	17	12	0.38	102	0.006	<20	0.97	0.050	0.22	0.9	<0.01	2.1	0.3	0.29	4	<0.5	0.2
B0054119	RC Chip	0.85	0.069	12	10	0.37	74	0.026	<20	0.93	0.040	0.23	1.9	<0.01	1.4	0.3	0.36	3	<0.5	<0.2
B0054120	RC Chip	0.77	0.069	9	13	0.46	67	0.054	<20	1.08	0.042	0.19	2.2	<0.01	1.8	0.2	0.07	4	<0.5	<0.2
B0054121	RC Chip	0.78	0.073	9	12	0.39	84	0.059	<20	1.04	0.043	0.20	2.9	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
B0054122	RC Chip	0.95	0.068	9	12	0.36	73	0.048	<20	1.02	0.039	0.20	2.9	<0.01	1.5	0.2	0.07	4	<0.5	<0.2
B0054123	RC Chip	0.93	0.074	12	11	0.35	96	0.042	<20	1.06	0.039	0.27	1.5	<0.01	2.0	0.3	0.14	4	<0.5	<0.2
B0054124	RC Chip	0.94	0.072	11	12	0.44	84	0.024	<20	1.17	0.043	0.22	0.6	<0.01	2.1	0.3	0.05	5	<0.5	<0.2
B0054125	RC Chip	1.03	0.060	14	12	0.36	90	0.012	<20	0.98	0.031	0.25	1.1	<0.01	1.7	0.3	0.80	3	<0.5	<0.2
B0054126	RC Chip	1.38	0.071	16	10	0.34	98	0.014	<20	1.06	0.032	0.29	0.7	<0.01	1.9	0.4	0.31	4	<0.5	<0.2
B0054127	RC Chip	0.80	0.068	16	10	0.26	93	0.011	<20	0.97	0.032	0.27	0.7	<0.01	1.8	0.3	0.28	3	<0.5	<0.2
B0054128	RC Chip	0.76	0.066	15	15	0.50	72	0.073	<20	1.10	0.053	0.15	2.3	<0.01	2.3	0.2	0.25	5	<0.5	<0.2
B0054129	RC Chip	0.90	0.076	16	15	0.51	71	0.056	<20	1.16	0.050	0.17	1.0	<0.01	2.4	0.2	0.07	5	<0.5	<0.2
B0054130	RC Chip	0.84	0.067	14	12	0.38	85	0.020	<20	1.09	0.048	0.23	0.7	<0.01	2.3	0.3	0.24	4	<0.5	<0.2
B0054131	RC Chip	1.02	0.072	16	12	0.35	88	0.011	<20	1.02	0.038	0.26	0.6	<0.01	2.5	0.3	0.33	4	<0.5	<0.2



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Project: Rude Creek
Report Date: January 27, 2021

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	ppm
B0054132	RC Chip	1.70	0.054	3.2	9.0	4.9	23	0.2	4.3	9.3	419	2.04	140.4	3.8	25.7	19.0	29	0.1	1.2	1.2	15
B0054133	RC Chip	1.93	0.034	18.7	38.7	5.7	15	0.3	3.6	6.4	157	1.94	42.0	6.8	37.6	15.8	37	<0.1	1.2	1.9	10
B695330	Rock DUP	<0.01	0.029	19.0	39.4	5.8	15	0.3	3.6	6.4	158	1.93	42.0	7.2	20.2	16.3	36	<0.1	1.2	1.8	11
B0054134	RC Chip	1.47	0.021	3.0	35.3	3.5	23	0.2	4.2	7.1	346	2.07	23.7	6.7	8.9	15.7	18	<0.1	1.5	0.9	14
B0054135	RC Chip	2.47	0.053	4.7	31.3	5.1	28	0.2	5.3	15.6	862	2.50	104.8	8.9	42.5	16.2	18	0.3	1.4	1.5	15
B0054136	RC Chip	1.73	0.040	4.4	36.8	4.8	38	0.2	8.8	26.9	1443	2.45	69.1	10.1	25.5	12.8	99	0.8	2.5	2.0	23
B0054137	RC Chip	1.65	0.007	2.0	12.1	6.4	30	<0.1	4.3	4.1	459	2.09	11.6	2.0	2.0	15.6	119	0.1	2.5	0.2	31
B0054138	RC Chip	1.48	0.006	2.6	5.4	5.7	27	<0.1	4.1	8.1	462	2.17	12.7	2.8	0.6	15.2	53	0.1	2.0	0.2	30
B0054139	RC Chip	1.55	0.007	2.3	9.6	5.2	26	0.1	4.8	14.0	430	2.29	20.4	5.9	3.5	16.3	82	<0.1	2.9	0.9	27
B0054140	RC Chip	1.73	0.021	2.1	12.4	5.7	21	0.2	3.7	6.7	393	1.85	16.0	3.8	3.9	15.2	51	<0.1	2.2	2.0	21
B0054141	RC Chip	1.94	0.006	1.9	22.1	7.7	31	0.2	3.8	4.7	485	2.16	10.7	2.8	<0.5	15.3	45	0.1	2.2	1.1	29
B0054142	RC Chip	1.94	<0.005	2.7	9.5	10.4	40	<0.1	4.4	4.8	550	2.35	12.6	2.9	<0.5	16.3	58	0.2	3.0	0.3	32
B0054143	RC Chip	1.83	0.006	1.9	3.9	7.9	38	<0.1	4.3	7.4	545	2.34	14.6	2.6	<0.5	15.7	66	0.2	3.0	0.3	30
B0054144	RC Chip	1.44	<0.005	3.7	12.4	9.8	43	<0.1	5.1	10.1	1364	1.99	16.2	3.1	1.0	14.5	61	0.4	2.5	0.2	28
B0054145	RC Chip	1.36	<0.005	2.7	19.1	10.8	41	0.2	4.6	9.4	830	2.36	24.7	4.0	6.2	15.7	88	0.3	2.8	0.5	32
B0054146	RC Chip	2.49	0.007	3.0	8.7	9.3	38	0.1	4.7	6.3	558	2.20	18.9	3.3	1.5	15.2	68	0.2	2.9	0.4	31
B0054147	RC Chip	1.56	0.054	2.7	5.7	9.6	43	0.1	4.6	6.8	570	2.48	17.5	3.4	1.6	15.7	71	0.1	2.1	0.3	37
B0054148	RC Chip	1.92	<0.005	3.3	3.8	9.1	37	<0.1	4.3	6.0	541	2.13	13.5	3.1	<0.5	16.2	65	0.2	2.1	0.2	31



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Project: Rude Creek
Report Date: January 27, 2021

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CERTIFICATE OF ANALYSIS

WHI20000523.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0054132	RC Chip	1.28	0.073	18	10	0.27	115	0.009	<20	1.02	0.037	0.33	1.0	<0.01	1.8	0.4	0.53	3	<0.5	<0.2
B0054133	RC Chip	0.44	0.068	17	6	0.19	124	0.004	<20	0.93	0.038	0.32	0.6	<0.01	1.3	0.3	0.53	2	<0.5	<0.2
B695330	Rock DUP	0.45	0.069	17	7	0.18	132	0.004	<20	0.96	0.039	0.34	0.5	<0.01	1.4	0.3	0.54	3	<0.5	<0.2
B0054134	RC Chip	0.37	0.072	14	7	0.29	120	0.014	<20	1.23	0.030	0.33	0.3	<0.01	1.6	0.3	0.21	3	<0.5	<0.2
B0054135	RC Chip	0.43	0.070	14	6	0.32	119	0.008	<20	1.39	0.033	0.34	0.2	<0.01	1.8	0.3	0.20	3	<0.5	<0.2
B0054136	RC Chip	2.14	0.052	15	5	0.39	84	0.023	<20	2.76	0.061	0.23	0.4	<0.01	1.8	0.2	0.17	5	<0.5	<0.2
B0054137	RC Chip	0.81	0.071	10	11	0.45	94	0.080	<20	1.30	0.064	0.17	1.8	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
B0054138	RC Chip	0.78	0.070	11	15	0.43	69	0.064	<20	1.15	0.055	0.15	2.5	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2
B0054139	RC Chip	0.70	0.073	13	12	0.41	110	0.068	<20	1.31	0.060	0.25	2.5	<0.01	2.4	0.2	0.26	4	<0.5	<0.2
B0054140	RC Chip	0.69	0.071	10	11	0.34	97	0.062	<20	1.02	0.054	0.24	4.5	<0.01	1.8	0.3	0.27	4	<0.5	<0.2
B0054141	RC Chip	0.78	0.072	11	12	0.40	80	0.074	<20	1.09	0.054	0.19	3.2	<0.01	2.2	0.2	<0.05	5	<0.5	<0.2
B0054142	RC Chip	0.75	0.072	12	16	0.48	90	0.086	<20	1.26	0.058	0.18	2.8	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
B0054143	RC Chip	0.72	0.068	11	13	0.47	84	0.085	<20	1.28	0.061	0.19	2.4	<0.01	2.2	0.2	0.08	5	<0.5	<0.2
B0054144	RC Chip	1.10	0.064	11	13	0.40	80	0.070	<20	1.82	0.086	0.17	2.3	<0.01	1.8	0.2	0.05	4	<0.5	<0.2
B0054145	RC Chip	0.92	0.068	11	12	0.45	85	0.076	<20	1.61	0.077	0.18	2.4	<0.01	2.4	0.1	0.10	5	<0.5	<0.2
B0054146	RC Chip	0.80	0.072	10	17	0.44	79	0.082	<20	1.25	0.065	0.17	3.7	<0.01	2.0	0.2	0.10	5	<0.5	<0.2
B0054147	RC Chip	0.82	0.069	13	17	0.53	73	0.088	<20	1.27	0.064	0.15	3.9	<0.01	2.3	0.1	0.12	5	<0.5	<0.2
B0054148	RC Chip	0.86	0.067	10	18	0.46	68	0.070	<20	1.25	0.064	0.16	3.6	<0.01	1.9	0.2	0.07	5	<0.5	<0.2



Bureau Veritas Commodities Canada Ltd.
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QUALITY CONTROL REPORT

WHI20000523.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0053687 RC Chip	1.71	0.025	2.1	8.7	8.2	34	0.3	6.3	10.7	368	3.22	71.3	4.7	12.6	10.0	165	0.1	0.9	2.6	28	
REP B0053687 QC		0.025																			
B0053695 RC Chip	1.29	0.016	2.1	11.0	3.9	33	0.2	4.4	6.6	380	2.36	58.2	6.4	7.3	13.6	49	<0.1	0.9	1.2	22	
REP B0053695 QC			2.2	11.0	4.0	33	0.2	4.5	6.7	387	2.40	59.4	5.7	9.1	14.0	51	<0.1	1.0	1.3	23	
B0053711 RC Chip	1.25	0.023	2.3	18.4	7.2	37	0.3	4.7	12.6	843	2.55	44.3	8.2	16.5	16.8	18	0.2	1.6	2.3	14	
REP B0053711 QC		0.025																			
B0053731 RC Chip	1.88	0.024	1.4	22.6	12.1	41	0.3	5.3	6.8	474	2.32	54.0	2.9	49.4	15.8	48	0.1	2.8	0.8	35	
REP B0053731 QC			1.4	20.9	12.3	40	0.3	4.7	6.8	477	2.38	57.7	2.9	28.3	16.5	50	0.2	2.8	1.0	36	
B0053763 RC Chip	1.79	0.005	2.0	9.6	9.3	39	0.3	5.0	6.3	466	2.58	13.6	3.3	203.3	16.1	58	<0.1	2.1	2.0	43	
REP B0053763 QC		<0.005																			
B0053766 RC Chip	1.37	0.005	2.2	7.5	7.1	42	0.1	4.8	7.1	504	2.63	12.0	3.9	1.5	14.6	48	0.1	2.1	0.7	42	
REP B0053766 QC			2.0	7.7	7.0	43	0.2	5.0	7.1	502	2.62	12.0	3.7	<0.5	14.1	49	<0.1	2.1	0.7	41	
B0054108 RC Chip	2.00	0.022	2.0	16.6	39.2	18	1.4	2.7	4.3	196	4.49	38.9	4.6	14.7	15.1	41	0.2	1.0	5.0	6	
REP B0054108 QC		0.020																			
B0054125 RC Chip	2.34	0.152	2.4	26.0	9.2	27	0.6	5.6	11.1	442	2.59	116.0	6.7	116.2	16.2	21	0.1	1.4	4.1	16	
REP B0054125 QC			2.2	26.1	9.3	27	0.6	5.7	10.9	446	2.62	121.1	7.5	171.6	16.5	21	0.1	1.3	4.2	16	
Core Reject Duplicates																					
B0053693 RC Chip	3.29	0.036	5.6	6.9	4.3	29	0.2	5.3	9.8	363	2.54	72.0	6.7	35.3	14.5	41	<0.1	0.7	2.5	17	
DUP B0053693 QC		0.033	3.0	6.8	4.5	29	0.2	5.4	9.8	359	2.54	72.4	6.7	32.7	14.3	41	<0.1	0.7	2.6	17	
B0053730 RC Chip	1.48	0.017	1.6	35.3	11.3	32	0.4	4.3	5.0	425	2.05	20.3	2.7	7.8	15.4	122	<0.1	2.6	2.0	25	
DUP B0053730 QC		0.015	1.7	34.5	11.9	34	0.4	4.3	5.3	435	2.06	22.3	2.9	8.6	15.3	121	<0.1	2.9	1.9	28	
B0053764 RC Chip	1.86	0.005	2.0	8.8	8.4	39	0.2	4.8	6.6	461	2.57	12.8	3.3	1.6	15.8	61	<0.1	1.8	1.1	45	
DUP B0053764 QC		0.006	1.9	8.7	7.9	35	0.2	4.6	6.0	454	2.52	11.8	3.3	1.0	14.4	57	<0.1	1.6	0.9	44	
B0054122 RC Chip	2.03	0.007	2.7	26.3	5.3	22	0.2	4.3	6.1	384	2.06	11.2	1.8	2.3	14.9	23	0.1	1.8	2.5	20	
DUP B0054122 QC		0.010	3.0	30.0	5.7	25	0.2	4.5	6.3	375	1.98	12.0	1.9	<0.5	15.3	24	<0.1	1.9	2.6	20	
Reference Materials																					
STD BVGE001 Standard			11.2	4534.5	197.7	1767	2.7	163.9	25.2	712	3.78	129.2	4.1	222.6	17.2	57	6.9	2.8	25.5	74	
STD BVGE001 Standard			11.4	4380.2	190.1	1703	2.5	160.6	25.0	695	3.70	123.0	4.2	220.7	17.5	56	6.1	2.4	24.3	74	



QUALITY CONTROL REPORT

WHI20000523.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
B0053687	RC Chip	1.07	0.080	14	10	0.53	98	0.019	<20	1.25	0.041	0.21	1.4	<0.01	2.0	0.2	2.02	4	<0.5	0.2
REP B0053687	QC																			
B0053695	RC Chip	0.92	0.070	10	11	0.46	79	0.024	<20	1.05	0.035	0.21	1.1	<0.01	1.6	0.2	0.65	4	<0.5	<0.2
REP B0053695	QC	0.96	0.070	11	10	0.47	81	0.024	<20	1.06	0.035	0.22	1.2	<0.01	1.6	0.2	0.64	4	<0.5	<0.2
B0053711	RC Chip	0.46	0.063	18	9	0.57	80	0.003	<20	1.13	0.026	0.23	1.2	<0.01	1.3	0.2	0.26	4	<0.5	0.2
REP B0053711	QC																			
B0053731	RC Chip	0.83	0.062	18	11	0.64	48	0.099	<20	1.32	0.045	0.10	2.3	<0.01	2.6	0.1	0.14	5	<0.5	<0.2
REP B0053731	QC	0.82	0.065	18	12	0.66	49	0.103	<20	1.34	0.045	0.11	2.1	<0.01	2.6	0.1	0.16	5	<0.5	<0.2
B0053763	RC Chip	0.99	0.067	20	16	0.75	104	0.121	<20	1.30	0.059	0.20	2.3	<0.01	3.3	0.3	0.07	5	<0.5	<0.2
REP B0053763	QC																			
B0053766	RC Chip	1.13	0.076	18	16	0.83	39	0.112	<20	1.37	0.047	0.14	2.8	<0.01	3.3	0.2	0.08	5	<0.5	<0.2
REP B0053766	QC	1.10	0.070	16	16	0.82	38	0.110	<20	1.34	0.049	0.14	2.8	<0.01	3.2	0.2	0.08	6	<0.5	<0.2
B0054108	RC Chip	0.98	0.084	10	6	0.17	82	0.002	<20	0.65	0.075	0.26	1.2	<0.01	0.8	0.2	3.62	2	<0.5	0.5
REP B0054108	QC																			
B0054125	RC Chip	1.03	0.060	14	12	0.36	90	0.012	<20	0.98	0.031	0.25	1.1	<0.01	1.7	0.3	0.80	3	<0.5	<0.2
REP B0054125	QC	1.07	0.059	15	12	0.37	90	0.013	<20	1.02	0.030	0.25	1.2	<0.01	1.9	0.3	0.79	4	<0.5	<0.2
Core Reject Duplicates																				
B0053693	RC Chip	1.10	0.070	16	9	0.35	89	0.007	<20	0.92	0.028	0.27	2.3	<0.01	1.6	0.3	1.57	3	<0.5	0.2
DUP B0053693	QC	1.12	0.069	15	9	0.34	88	0.007	<20	0.91	0.028	0.27	2.5	<0.01	1.6	0.3	1.48	3	<0.5	0.2
B0053730	RC Chip	1.06	0.063	13	11	0.53	64	0.063	<20	1.35	0.043	0.13	2.0	<0.01	2.0	0.2	0.09	4	<0.5	<0.2
DUP B0053730	QC	1.11	0.063	14	11	0.54	70	0.077	<20	1.43	0.045	0.15	2.4	<0.01	2.2	0.2	0.10	5	<0.5	<0.2
B0053764	RC Chip	1.02	0.073	20	16	0.76	114	0.125	<20	1.30	0.067	0.22	2.2	<0.01	3.5	0.3	0.07	5	<0.5	<0.2
DUP B0053764	QC	0.99	0.068	19	15	0.74	106	0.117	<20	1.26	0.064	0.21	2.1	<0.01	3.2	0.3	0.07	4	<0.5	<0.2
B0054122	RC Chip	0.95	0.068	9	12	0.36	73	0.048	<20	1.02	0.039	0.20	2.9	<0.01	1.5	0.2	0.07	4	<0.5	<0.2
DUP B0054122	QC	0.94	0.073	10	12	0.35	77	0.052	<20	1.02	0.040	0.20	2.2	<0.01	1.5	0.2	0.07	4	<0.5	<0.2
Reference Materials																				
STD BVGE001	Standard	1.33	0.080	28	181	1.26	368	0.240	<20	2.28	0.190	0.93	3.9	0.10	6.1	0.7	0.68	8	4.9	1.1
STD BVGE001	Standard	1.30	0.073	27	171	1.31	335	0.244	20	2.29	0.198	0.87	4.1	0.08	5.9	0.6	0.66	7	4.9	1.0



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Project: Rude Creek
Report Date: January 27, 2021

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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
STD DS11	Standard			15.4	141.4	132.8	331	1.7	76.2	13.5	970	3.00	44.6	2.5	54.1	8.9	67	2.3	7.9	11.6	47	
STD DS11	Standard			13.4	143.5	128.6	336	1.5	79.2	13.7	1003	2.96	45.6	2.3	62.2	6.4	60	2.5	7.6	10.8	46	
STD DS11	Standard			14.8	151.9	146.1	368	1.8	82.4	14.5	1055	3.17	48.7	2.8	127.2	8.7	72	2.6	9.3	13.7	50	
STD OREAS262	Standard			0.6	113.3	56.0	151	0.5	64.6	27.5	521	3.29	37.9	1.2	54.6	10.0	36	0.6	3.3	1.0	22	
STD OREAS262	Standard			0.6	115.0	55.6	152	0.5	64.3	26.8	525	3.26	38.9	1.2	63.2	10.5	37	0.6	3.2	1.1	21	
STD OREAS262	Standard			0.7	113.3	53.0	151	0.5	63.3	28.2	535	3.27	36.7	1.1	59.9	8.5	35	0.7	3.7	1.0	22	
STD OREAS262	Standard			0.8	118.9	57.8	157	0.5	68.6	28.9	549	3.41	38.5	1.2	57.9	10.7	38	0.6	3.1	1.0	22	
STD OREAS262	Standard			0.8	119.0	59.1	162	0.5	65.9	29.0	566	3.29	40.9	1.3	78.2	10.1	39	0.7	4.6	1.1	21	
STD OXB130	Standard		0.120																			
STD OXB130	Standard		0.119																			
STD OXG141	Standard		0.923																			
STD OXG141	Standard		0.908																			
STD OXN155	Standard		7.599																			
STD OXN155	Standard		7.712																			
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD OXG141 Expected			0.93																			
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
BLK	Blank		0.006																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.1	<1	<0.1	<0.1	<0.1	<1	



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2
STD DS11	Standard	1.01	0.072	18	56	0.81	431	0.087	<20	1.10	0.072	0.38	2.8	0.26	3.3	4.8	0.26	5	2.5	4.5
STD DS11	Standard	1.02	0.068	15	56	0.82	383	0.080	<20	1.06	0.065	0.39	2.7	0.23	3.0	4.7	0.27	5	2.3	4.5
STD DS11	Standard	1.07	0.073	20	61	0.86	418	0.095	<20	1.18	0.073	0.41	2.7	0.27	3.4	5.2	0.28	5	2.5	4.6
STD OREAS262	Standard	2.95	0.038	17	43	1.15	264	0.003	<20	1.26	0.067	0.31	<0.1	0.15	3.2	0.5	0.26	4	<0.5	0.2
STD OREAS262	Standard	2.89	0.039	17	42	1.19	261	0.003	<20	1.23	0.068	0.30	0.1	0.16	3.4	0.4	0.26	4	0.6	0.3
STD OREAS262	Standard	3.09	0.040	15	42	1.17	236	0.003	<20	1.23	0.067	0.31	0.1	0.14	3.2	0.5	0.26	4	0.6	0.2
STD OREAS262	Standard	3.00	0.040	16	43	1.25	255	0.003	<20	1.26	0.074	0.31	0.1	0.15	3.5	0.5	0.27	4	0.7	0.2
STD OREAS262	Standard	3.07	0.043	18	43	1.22	262	0.003	<20	1.33	0.067	0.31	0.1	0.15	3.6	0.5	0.27	4	<0.5	0.2
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
Prep Wash																					
ROCK-WHI	Prep Blank		0.005	1.8	1.2	3.9	24	<0.1	0.7	3.4	375	1.67	1.5	0.4	0.7	2.4	20	<0.1	0.1	<0.1	20
ROCK-WHI	Prep Blank		<0.005	0.7	1.4	4.6	30	<0.1	0.9	3.4	384	1.71	1.7	0.4	<0.5	2.2	19	<0.1	<0.1	<0.1	20



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Prep Wash																				
ROCK-WHI	Prep Blank	0.53	0.037	6	2	0.39	56	0.069	<20	0.81	0.079	0.08	0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	0.54	0.037	6	2	0.40	57	0.066	<20	0.81	0.085	0.09	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2



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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: February 05, 2021
Report Date: February 23, 2021
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CERTIFICATE OF ANALYSIS

WHI20000524.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	138	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	138	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI20000524.1

Method Analyte	Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
B0054158	RC Chip	1.22	0.007	2.5	16.4	6.4	30	0.1	4.3	7.0	388	2.49	9.4	4.3	1.8	15.2	43	<0.1	1.1	2.0	36
B0054149	RC Chip	1.83	<0.005	2.6	3.5	6.8	37	<0.1	4.6	6.7	525	2.57	8.7	3.2	0.6	13.5	69	0.1	1.4	0.1	42
B0054150	RC Chip	1.07	<0.005	2.6	3.6	7.9	33	<0.1	4.3	6.3	494	2.51	8.0	2.6	<0.5	13.3	57	<0.1	1.4	0.1	42
B0054151	RC Chip	1.38	0.005	2.3	7.8	10.9	38	0.1	4.4	7.2	495	2.31	11.2	2.2	1.4	12.4	49	0.2	1.6	0.3	33
B0054152	RC Chip	1.32	0.021	2.5	7.1	7.7	34	<0.1	4.2	6.5	412	2.30	9.9	2.1	7.4	11.1	73	0.1	1.3	0.3	34
B0054153	RC Chip	1.98	0.016	2.8	24.6	8.7	34	0.2	4.6	7.8	381	2.37	12.3	3.1	3.3	10.0	42	0.1	1.4	3.2	35
B0054154	RC Chip	1.26	0.037	3.2	13.1	8.3	30	0.1	4.6	7.5	395	2.38	13.3	2.9	1.4	9.8	53	0.1	1.5	1.1	33
B0054155	RC Chip	1.42	<0.005	3.0	10.0	6.2	29	<0.1	4.1	6.6	357	2.17	21.9	5.4	1.1	11.6	151	0.1	1.4	0.3	31
B0054156	RC Chip	1.48	0.019	2.3	144.1	16.7	34	0.9	4.6	8.6	434	2.42	21.2	4.4	12.2	16.5	67	0.1	1.1	25.2	35
B0054157	RC Chip	1.20	0.019	2.6	117.1	15.1	33	0.8	4.6	8.3	429	2.37	17.1	4.3	6.5	15.6	83	0.2	1.0	16.0	34
B0054159	RC Chip	1.37	0.008	2.5	5.1	5.7	29	<0.1	4.7	8.7	411	2.39	14.9	5.9	4.1	14.6	36	<0.1	1.2	0.6	32
B0054160	RC Chip	1.66	0.010	2.8	11.8	6.3	30	<0.1	4.8	10.5	422	2.41	15.8	3.4	3.4	14.0	57	0.1	1.2	0.3	33
B0054161	RC Chip	1.17	0.006	2.4	8.7	7.8	30	<0.1	4.3	6.5	406	2.31	15.9	3.3	1.3	14.7	56	0.1	1.2	0.3	35
B0054162	RC Chip	1.30	<0.005	3.4	14.6	6.5	33	0.1	5.0	6.4	501	2.69	28.4	3.7	1.3	14.3	61	0.1	1.1	0.3	43
B0054163	RC Chip	1.41	0.006	2.7	7.8	9.3	35	<0.1	4.7	8.6	522	2.46	20.8	2.7	2.1	13.1	50	0.1	1.3	0.4	36
B0054164	RC Chip	1.65	0.006	2.6	9.1	7.8	37	<0.1	4.8	6.6	584	2.57	12.9	3.6	1.7	13.1	55	0.1	1.6	0.3	39
B0054165	RC Chip	1.65	0.005	4.7	5.7	9.7	41	<0.1	5.3	6.7	616	2.64	8.5	4.3	<0.5	20.9	54	0.1	1.6	0.5	42
B0054166	RC Chip	1.97	0.006	3.2	12.1	8.1	41	0.1	5.1	7.3	679	2.72	16.2	4.4	1.4	15.4	48	0.1	1.6	0.2	44
B0054167	RC Chip	1.30	<0.005	2.6	6.0	5.6	40	<0.1	5.2	7.7	619	2.70	10.1	4.0	1.0	16.4	41	<0.1	1.7	0.2	45
B0054168	RC Chip	2.28	<0.005	2.8	5.7	6.4	39	<0.1	4.9	9.5	595	2.62	11.2	3.9	0.8	15.3	36	<0.1	1.7	0.2	43
B0054169	RC Chip	2.28	<0.005	2.9	5.9	6.3	37	<0.1	5.0	6.2	594	2.68	7.7	4.2	0.7	16.6	43	<0.1	1.7	0.3	41
B0054170	RC Chip	1.44	0.005	2.7	9.5	6.3	32	<0.1	5.0	7.4	495	2.65	11.4	4.0	1.3	14.7	87	<0.1	1.5	0.4	43
B0054171	RC Chip	1.39	<0.005	2.7	14.6	9.9	35	0.2	4.8	7.4	549	2.53	12.3	3.6	1.5	15.5	57	0.1	1.8	0.5	35
B0054172	RC Chip	1.27	0.007	3.3	19.2	10.2	33	0.2	5.2	10.3	503	2.77	20.2	3.9	4.7	15.8	54	0.1	1.6	0.8	39
B0054173	RC Chip	1.24	0.005	6.0	21.2	8.8	33	0.2	5.5	7.4	515	2.84	16.7	4.6	2.1	16.1	75	0.1	1.8	0.4	42
B0054174	RC Chip	1.47	<0.005	2.6	11.3	7.4	29	<0.1	4.4	6.2	460	2.34	13.5	2.7	0.9	14.6	75	<0.1	1.4	0.2	37
B0054175	RC Chip	1.28	0.006	2.8	9.9	5.4	27	<0.1	4.4	4.2	404	2.13	7.9	2.0	0.7	13.9	62	<0.1	1.3	0.1	30
B0054176	RC Chip	1.38	0.054	3.2	61.8	27.3	30	0.9	4.7	9.2	480	2.74	34.7	2.6	26.7	14.5	48	0.2	0.7	5.0	28
B0054177	RC Chip	1.38	0.024	2.5	13.4	8.6	32	0.2	4.6	6.8	444	2.43	15.0	2.4	4.6	17.3	40	0.1	1.2	0.9	30
B0054178	RC Chip	2.11	0.006	2.6	11.8	6.7	31	<0.1	4.7	5.8	406	2.45	8.4	2.7	1.9	14.6	99	0.1	1.3	0.2	37



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0054158	RC Chip	0.72	0.066	13	17	0.53	79	0.073	<20	1.02	0.050	0.14	3.4	<0.01	2.0	0.2	0.10	4	<0.5	<0.2
B0054149	RC Chip	0.79	0.070	14	19	0.56	123	0.093	<20	1.14	0.062	0.19	2.8	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
B0054150	RC Chip	0.82	0.069	13	19	0.54	72	0.079	<20	1.18	0.061	0.13	3.3	<0.01	2.1	0.1	<0.05	5	<0.5	<0.2
B0054151	RC Chip	0.75	0.072	9	16	0.55	54	0.075	<20	1.14	0.050	0.11	4.1	<0.01	1.5	0.1	0.07	5	<0.5	<0.2
B0054152	RC Chip	0.76	0.070	10	18	0.55	44	0.072	<20	1.12	0.049	0.11	3.2	<0.01	1.6	0.1	0.09	5	<0.5	<0.2
B0054153	RC Chip	0.83	0.071	8	19	0.55	48	0.071	<20	1.06	0.054	0.13	3.3	<0.01	1.8	0.2	0.41	5	<0.5	<0.2
B0054154	RC Chip	0.69	0.070	8	19	0.50	58	0.070	<20	1.19	0.058	0.15	3.3	<0.01	2.0	0.2	0.11	5	<0.5	<0.2
B0054155	RC Chip	0.62	0.056	12	17	0.45	83	0.074	<20	1.11	0.065	0.16	2.4	<0.01	1.9	0.2	0.05	4	<0.5	<0.2
B0054156	RC Chip	1.35	0.074	15	14	0.53	67	0.036	<20	1.21	0.045	0.20	2.3	<0.01	2.5	0.3	0.41	5	<0.5	<0.2
B0054157	RC Chip	1.35	0.070	14	15	0.50	78	0.034	<20	1.24	0.051	0.22	2.2	<0.01	2.4	0.3	0.37	5	<0.5	<0.2
B0054159	RC Chip	0.86	0.071	10	16	0.47	47	0.035	<20	1.12	0.049	0.13	1.6	<0.01	2.1	0.2	0.23	5	<0.5	<0.2
B0054160	RC Chip	0.79	0.070	9	17	0.49	50	0.062	<20	1.21	0.052	0.13	3.1	<0.01	1.8	0.2	0.23	5	<0.5	<0.2
B0054161	RC Chip	0.74	0.071	10	17	0.50	45	0.065	<20	1.18	0.048	0.11	3.0	<0.01	1.9	0.1	0.09	5	<0.5	<0.2
B0054162	RC Chip	0.73	0.071	18	21	0.62	121	0.108	<20	1.23	0.067	0.21	4.6	<0.01	3.0	0.3	0.10	5	<0.5	<0.2
B0054163	RC Chip	0.80	0.073	10	19	0.53	39	0.068	<20	1.20	0.049	0.10	4.7	0.02	2.0	0.1	0.19	5	<0.5	<0.2
B0054164	RC Chip	0.77	0.072	13	19	0.57	42	0.083	<20	1.24	0.056	0.10	4.1	0.02	2.3	0.1	0.12	6	<0.5	<0.2
B0054165	RC Chip	0.86	0.071	16	22	0.57	42	0.081	<20	1.31	0.059	0.10	4.0	<0.01	2.4	0.1	<0.05	5	<0.5	<0.2
B0054166	RC Chip	0.87	0.072	14	21	0.59	46	0.093	<20	1.29	0.060	0.11	4.4	<0.01	2.6	0.1	0.12	5	<0.5	<0.2
B0054167	RC Chip	0.79	0.069	21	19	0.64	126	0.116	<20	1.18	0.064	0.22	3.8	<0.01	2.7	0.3	0.07	5	<0.5	<0.2
B0054168	RC Chip	0.87	0.071	18	20	0.68	98	0.118	<20	1.23	0.063	0.20	3.5	<0.01	2.6	0.2	0.11	5	<0.5	<0.2
B0054169	RC Chip	1.02	0.071	24	21	0.71	94	0.111	<20	1.33	0.063	0.18	3.2	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
B0054170	RC Chip	0.92	0.068	20	20	0.67	146	0.126	<20	1.25	0.064	0.24	3.5	<0.01	2.8	0.3	0.12	5	<0.5	<0.2
B0054171	RC Chip	1.07	0.069	19	19	0.63	60	0.092	<20	1.23	0.051	0.13	4.0	<0.01	2.0	0.2	0.09	5	<0.5	<0.2
B0054172	RC Chip	0.99	0.071	17	22	0.69	76	0.101	<20	1.32	0.051	0.15	4.3	<0.01	2.4	0.2	0.17	5	<0.5	<0.2
B0054173	RC Chip	1.06	0.075	16	21	0.63	74	0.112	<20	1.41	0.061	0.15	5.4	<0.01	2.8	0.2	0.12	6	<0.5	<0.2
B0054174	RC Chip	0.97	0.073	11	15	0.54	54	0.096	<20	1.29	0.053	0.12	3.8	<0.01	2.1	0.2	0.07	5	<0.5	<0.2
B0054175	RC Chip	0.91	0.071	10	15	0.46	55	0.069	<20	1.10	0.047	0.14	4.0	<0.01	1.8	0.2	<0.05	4	<0.5	<0.2
B0054176	RC Chip	1.35	0.072	18	13	0.52	59	0.023	<20	1.28	0.036	0.21	2.2	<0.01	2.2	0.3	0.62	5	<0.5	0.4
B0054177	RC Chip	1.13	0.072	12	15	0.52	43	0.042	<20	1.21	0.043	0.13	1.8	<0.01	2.0	0.2	0.23	5	<0.5	<0.2
B0054178	RC Chip	0.90	0.069	11	18	0.52	54	0.081	<20	1.26	0.058	0.11	3.9	<0.01	2.0	0.1	0.06	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0054179	RC Chip	1.90	0.007	2.8	8.7	6.4	29	<0.1	4.7	8.1	433	2.56	9.6	2.1	<0.5	14.4	86	<0.1	1.5	0.2	37
B0054180	RC Chip	1.58	<0.005	3.4	14.1	6.8	32	<0.1	4.7	4.8	432	2.51	8.4	1.7	1.1	14.3	93	<0.1	1.7	0.2	32
B0054181	RC Chip	1.67	<0.005	2.7	18.2	7.1	31	0.1	4.7	5.9	430	2.63	9.2	2.6	<0.5	14.9	83	0.1	1.4	0.3	40
B0054182	RC Chip	2.32	0.005	3.0	32.9	7.2	30	0.2	4.6	9.1	394	2.35	17.2	1.9	5.2	15.0	98	0.2	1.5	0.5	28
B0054183	RC Chip	2.18	0.009	2.5	10.5	4.1	21	0.1	4.2	6.4	324	1.93	15.4	1.9	4.5	15.5	48	<0.1	1.4	0.7	17
B0054184	RC Chip	2.55	0.029	2.4	104.5	7.1	28	0.6	5.1	11.7	403	2.60	23.4	5.5	12.4	16.1	114	<0.1	2.0	1.0	26
B0054185	RC Chip	2.46	0.006	1.9	26.7	5.3	24	0.2	5.0	8.5	514	2.64	13.3	4.0	2.7	14.8	50	<0.1	1.7	0.2	25
B0054186	RC Chip	2.38	<0.005	2.9	12.9	8.4	26	0.1	3.9	6.5	565	2.04	13.7	3.4	2.8	16.1	60	0.1	1.6	0.2	20
B0054187	RC Chip	3.21	0.072	3.1	15.0	7.2	24	0.1	4.0	6.5	442	1.84	14.8	2.4	3.4	19.1	55	<0.1	1.4	0.4	19
B0054190	RC Chip	3.31	0.010	3.4	27.1	4.7	26	0.3	4.2	6.0	483	2.14	36.0	4.2	9.5	17.3	30	<0.1	1.7	0.9	16
B0054191	RC Chip	2.36	0.010	2.6	15.9	3.0	23	0.1	4.3	7.1	434	1.90	19.9	4.7	6.6	21.0	21	<0.1	1.5	0.6	15
B0054192	RC Chip	2.36	0.013	2.2	14.8	3.1	21	0.1	4.2	6.8	426	1.84	18.6	4.6	6.4	21.4	20	<0.1	1.6	0.6	16
B0054193	RC Chip	2.67	0.012	6.2	15.3	3.6	23	0.1	4.1	7.0	426	1.85	19.7	4.0	8.6	20.5	21	<0.1	1.7	0.6	15
B0054260	RC Chip	3.63	0.013	1.3	26.6	9.3	34	0.2	5.9	7.8	525	2.01	45.9	2.9	56.4	16.6	63	0.1	1.1	1.3	21
B0054261	RC Chip	4.44	0.009	0.9	33.5	6.5	39	0.1	4.9	8.6	531	2.17	30.0	3.8	3.3	17.1	55	0.2	1.1	0.7	20
B0054262	RC Chip	3.83	0.007	1.2	11.1	9.2	31	0.1	5.1	8.5	496	2.37	13.8	3.3	2.5	17.7	133	0.1	1.4	1.0	35
B0054263	RC Chip	1.83	<0.005	1.3	4.5	8.1	26	<0.1	4.6	6.5	543	2.20	11.7	2.6	2.1	17.7	93	<0.1	1.5	0.3	32
B0054264	RC Chip	3.44	<0.005	1.1	1.5	9.0	24	<0.1	3.8	9.6	554	2.01	19.2	2.6	0.6	16.9	173	<0.1	1.5	0.2	26
B0054265	RC Chip	2.81	<0.005	0.8	6.3	8.7	28	<0.1	4.1	5.2	544	2.04	15.3	4.6	1.2	14.8	1182	<0.1	1.1	0.1	28
B695332	Rock DUP		<0.005	0.9	6.5	9.0	28	<0.1	4.2	5.3	565	2.12	16.6	4.6	1.0	14.9	1191	<0.1	1.1	0.2	30
B0054267	RC Chip	3.77	0.012	3.4	22.0	10.5	67	0.6	16.6	13.4	820	4.55	1729.3	4.3	8.3	13.8	138	0.1	2.3	5.7	77
B0054268	RC Chip	3.92	0.025	1.8	24.2	19.1	33	0.6	6.9	11.8	474	3.47	2614.3	3.7	52.1	15.6	172	0.1	2.5	3.6	37
B0054269	RC Chip	4.17	0.005	1.6	6.6	10.3	32	0.1	4.5	11.1	517	2.45	85.6	3.0	2.0	15.1	149	0.2	2.1	0.7	36
B0054270	RC Chip	3.65	0.008	1.8	13.6	9.0	31	0.2	4.5	4.6	619	2.52	41.4	3.0	1.2	14.3	141	0.1	3.1	0.4	35
B0054271	RC Chip	5.00	0.021	1.4	8.2	7.7	29	0.1	4.0	8.5	588	2.54	50.8	2.8	5.4	15.6	142	<0.1	1.7	0.7	32
B0054272	RC Chip	2.77	0.010	1.4	6.6	6.8	26	<0.1	4.4	7.4	515	2.37	24.7	3.8	6.0	16.6	91	<0.1	1.7	0.6	31
B0054273	RC Chip	5.08	0.007	1.6	8.1	6.3	26	<0.1	4.6	8.1	451	2.50	16.1	3.4	3.3	16.8	46	<0.1	1.9	1.1	27
B0054274	RC Chip	4.21	0.009	1.8	7.8	9.7	31	<0.1	4.6	5.7	500	2.52	9.6	2.8	1.4	16.4	77	<0.1	1.6	0.4	38
B0054275	RC Chip	3.42	<0.005	1.8	7.4	6.3	27	<0.1	4.7	6.8	527	2.37	7.3	2.8	0.5	15.0	109	<0.1	1.6	0.2	30
B0054276	RC Chip	3.81	0.011	1.6	23.2	5.8	24	0.1	8.2	13.2	497	2.50	34.6	4.0	9.6	15.6	70	<0.1	2.6	0.4	24



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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0054179	RC Chip	0.81	0.069	11	17	0.54	41	0.079	<20	1.27	0.053	0.09	3.9	<0.01	2.0	0.1	0.07	5	<0.5	<0.2
B0054180	RC Chip	0.85	0.071	11	18	0.53	51	0.077	<20	1.29	0.055	0.12	4.4	<0.01	1.8	0.1	<0.05	5	<0.5	<0.2
B0054181	RC Chip	0.78	0.070	15	19	0.52	46	0.077	<20	1.25	0.056	0.09	4.3	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
B0054182	RC Chip	0.61	0.078	11	16	0.40	72	0.063	<20	1.09	0.045	0.13	4.5	0.01	1.5	0.1	0.12	5	<0.5	<0.2
B0054183	RC Chip	0.47	0.078	10	16	0.30	74	0.044	<20	0.91	0.036	0.16	4.0	0.05	1.2	0.2	0.08	4	<0.5	<0.2
B0054184	RC Chip	0.76	0.079	10	13	0.43	96	0.055	<20	1.31	0.042	0.20	3.1	0.02	1.9	0.2	0.33	5	<0.5	<0.2
B0054185	RC Chip	0.61	0.070	11	13	0.39	85	0.041	<20	1.28	0.038	0.21	2.4	<0.01	1.9	0.2	0.12	4	<0.5	<0.2
B0054186	RC Chip	0.60	0.064	10	14	0.30	79	0.043	<20	1.22	0.043	0.19	2.7	<0.01	1.3	0.2	0.09	4	<0.5	<0.2
B0054187	RC Chip	0.68	0.068	12	14	0.28	75	0.041	<20	1.31	0.045	0.19	2.4	0.01	1.3	0.2	0.06	4	<0.5	<0.2
B0054190	RC Chip	0.48	0.065	13	11	0.34	81	0.016	<20	1.18	0.026	0.24	1.5	<0.01	1.4	0.2	0.11	3	<0.5	<0.2
B0054191	RC Chip	0.46	0.080	16	11	0.34	95	0.015	<20	1.04	0.029	0.25	0.6	<0.01	1.8	0.2	0.11	3	<0.5	<0.2
B0054192	RC Chip	0.45	0.078	17	11	0.33	96	0.016	<20	1.03	0.027	0.26	0.7	<0.01	1.7	0.2	0.12	3	<0.5	<0.2
B0054193	RC Chip	0.47	0.077	16	12	0.33	101	0.016	<20	1.02	0.026	0.26	0.8	<0.01	1.7	0.2	0.13	3	<0.5	<0.2
B0054260	RC Chip	0.89	0.075	19	9	0.35	94	0.007	<20	1.61	0.031	0.23	0.4	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2
B0054261	RC Chip	0.97	0.075	18	8	0.39	90	0.007	<20	1.58	0.033	0.25	0.3	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2
B0054262	RC Chip	1.21	0.074	17	11	0.60	101	0.048	<20	1.48	0.046	0.13	0.8	<0.01	2.1	0.2	0.07	5	<0.5	<0.2
B0054263	RC Chip	1.35	0.071	15	11	0.56	108	0.043	<20	1.56	0.041	0.16	0.7	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
B0054264	RC Chip	2.40	0.074	12	9	0.49	103	0.037	<20	1.86	0.047	0.14	0.6	<0.01	1.4	0.2	0.18	5	<0.5	<0.2
B0054265	RC Chip	2.39	0.071	12	8	0.48	428	0.011	<20	2.07	0.052	0.15	0.2	<0.01	1.7	0.1	0.05	5	<0.5	<0.2
B695332	Rock DUP	2.47	0.073	13	8	0.51	439	0.011	<20	2.15	0.054	0.16	0.3	<0.01	1.8	0.1	0.06	5	<0.5	<0.2
B0054267	RC Chip	1.45	0.099	12	53	1.58	152	0.082	<20	2.54	0.086	0.26	1.4	<0.01	5.0	0.4	1.22	9	<0.5	<0.2
B0054268	RC Chip	0.88	0.074	11	17	0.64	160	0.052	<20	1.47	0.081	0.26	3.3	<0.01	2.7	0.3	1.64	6	<0.5	<0.2
B0054269	RC Chip	0.83	0.077	10	12	0.52	89	0.076	<20	1.36	0.070	0.14	3.2	<0.01	2.2	0.1	0.26	6	<0.5	<0.2
B0054270	RC Chip	0.83	0.070	10	12	0.57	113	0.078	<20	1.44	0.057	0.13	4.0	<0.01	2.1	0.1	<0.05	6	<0.5	<0.2
B0054271	RC Chip	0.99	0.072	13	12	0.58	91	0.034	<20	1.26	0.042	0.10	0.6	<0.01	2.1	0.1	0.27	5	<0.5	<0.2
B0054272	RC Chip	0.89	0.073	13	12	0.56	73	0.030	<20	1.25	0.047	0.11	0.4	<0.01	2.1	0.1	0.17	5	<0.5	<0.2
B0054273	RC Chip	0.73	0.073	12	12	0.50	76	0.026	<20	1.06	0.039	0.13	0.7	<0.01	2.2	0.1	0.33	4	<0.5	0.2
B0054274	RC Chip	0.84	0.079	12	15	0.58	73	0.050	<20	1.18	0.052	0.10	1.0	<0.01	2.3	0.1	0.10	5	<0.5	<0.2
B0054275	RC Chip	0.76	0.070	12	14	0.53	84	0.027	<20	1.09	0.042	0.10	0.4	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
B0054276	RC Chip	0.74	0.066	13	12	0.51	83	0.016	<20	1.22	0.041	0.14	0.2	<0.01	2.1	0.1	0.24	4	<0.5	<0.2



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

WHI20000524.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V		
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1		
B0054277	RC Chip	4.29	0.017	1.4	9.8	8.5	26	0.2	4.9	8.1	419	2.26	13.9	2.3	16.1	13.2	83	<0.1	1.5	1.7	16	
B0054278	RC Chip	4.55	0.005	1.9	3.4	10.4	25	<0.1	4.1	12.4	393	2.02	15.2	2.7	0.6	13.1	88	<0.1	1.5	0.4	18	
B0054279	RC Chip	3.58	0.006	1.6	6.8	12.9	27	<0.1	4.2	8.5	454	1.85	16.5	2.6	1.7	17.3	133	<0.1	1.3	0.4	18	
B0054280	RC Chip	3.74	0.017	1.7	10.8	8.8	28	0.2	4.3	7.6	463	1.95	14.1	2.2	6.4	15.5	36	<0.1	1.1	0.9	18	
B0054281	RC Chip	3.11	0.064	1.7	7.4	13.0	29	0.5	4.7	10.9	467	3.04	23.1	5.9	32.5	15.2	120	0.2	0.6	5.7	17	
B0054282	RC Chip	3.39	0.041	2.1	19.4	63.7	32	1.3	4.7	8.8	628	2.92	19.6	10.2	24.4	16.8	46	0.5	1.3	9.8	10	
B0054283	RC Chip	2.52	0.027	1.6	13.7	26.5	22	0.7	4.5	8.1	515	2.44	14.8	4.4	17.1	14.6	43	0.2	2.3	4.4	13	
B0054284	RC Chip	4.04	0.029	1.5	11.0	4.9	31	0.1	4.8	8.1	492	2.34	11.4	2.4	13.2	15.9	45	<0.1	0.8	1.1	29	
B0054285	RC Chip	3.26	0.018	1.8	15.5	8.1	35	0.1	4.5	8.0	418	2.20	12.5	3.0	7.9	15.8	88	0.2	0.8	1.9	31	
B0054286	RC Chip	2.35	0.016	1.7	24.0	7.7	29	0.3	4.5	5.6	450	2.12	7.1	2.7	0.9	17.9	68	0.1	0.7	3.8	32	
B0054287	RC Chip	3.74	0.010	1.6	29.2	14.2	38	0.3	4.4	5.1	455	2.29	6.4	2.6	4.1	16.6	59	0.1	1.0	1.6	36	
B0054288	RC Chip	2.92	<0.005	2.3	14.6	12.1	35	0.1	4.3	5.2	440	2.13	5.5	2.6	<0.5	18.9	51	0.1	1.3	0.2	27	
B0054289	RC Chip	2.88	<0.005	2.0	19.7	10.6	34	0.1	4.2	5.9	396	2.03	5.2	2.8	1.6	18.5	75	0.1	1.0	0.2	29	
B0054290	RC Chip	3.01	<0.005	1.8	14.4	5.0	27	<0.1	4.4	7.1	362	1.97	5.7	2.7	<0.5	17.1	38	<0.1	1.0	0.2	24	
B0054291	RC Chip	2.87	0.011	1.5	6.5	5.0	28	0.1	3.8	8.6	387	2.01	6.5	4.0	0.8	20.1	65	<0.1	0.5	1.5	29	
B0054292	RC Chip	2.08	0.012	1.5	11.0	2.5	20	<0.1	3.6	10.3	353	1.89	8.6	3.6	2.3	18.7	267	<0.1	0.6	0.7	17	
B0054293	RC Chip	1.38	0.017	1.8	8.5	4.9	25	0.1	4.9	14.0	398	2.76	21.6	3.9	8.0	19.0	102	0.2	1.5	0.7	25	
B0054294	RC Chip	3.70	<0.005	1.7	3.3	2.3	22	<0.1	4.4	5.0	480	2.26	5.5	3.2	<0.5	16.7	46	<0.1	1.5	<0.1	28	
B0054295	RC Chip	2.90	<0.005	2.2	6.0	6.4	33	<0.1	4.1	5.1	408	2.11	7.9	3.0	1.0	15.7	36	<0.1	1.4	0.3	30	
B0054296	RC Chip	2.88	0.021	2.1	25.8	9.1	35	0.2	4.5	5.2	378	2.53	10.5	4.3	1.3	16.2	45	0.2	1.2	1.9	45	
B0054297	RC Chip	3.92	0.094	2.0	58.6	15.5	34	0.5	4.5	9.7	391	2.71	15.1	4.2	23.1	16.3	55	0.3	1.0	30.7	48	
B0054298	RC Chip	2.54	0.007	2.1	25.7	7.0	30	0.1	4.1	4.2	366	2.76	8.8	4.4	2.7	15.7	42	0.1	1.1	4.4	52	
B0054299	RC Chip	3.84	0.055	2.3	18.0	10.8	28	0.2	4.0	8.9	345	2.33	13.0	3.9	9.4	14.4	65	0.2	1.0	7.6	43	
B0054300	RC Chip	1.62	0.080	2.5	5.0	9.8	27	0.3	4.5	12.6	349	2.23	14.1	1.9	4.5	13.7	27	0.2	1.1	4.1	33	
B0054351	RC Chip	2.27	0.021	2.0	2.4	18.2	35	0.5	4.5	7.7	360	2.11	12.3	1.8	0.5	13.8	38	0.2	1.5	2.8	29	
B0054352	RC Chip	2.65	0.009	2.3	8.5	11.8	37	<0.1	4.4	6.8	397	2.32	11.4	2.6	21.8	13.0	43	0.1	1.3	0.3	36	
B0054353	RC Chip	3.70	0.010	2.3	15.1	8.8	35	0.1	4.4	5.1	404	2.71	8.8	3.6	<0.5	13.0	46	0.1	1.3	0.5	46	
B0054354	RC Chip	3.14	0.005	2.3	8.4	8.0	31	<0.1	4.4	6.3	383	2.62	9.6	3.8	<0.5	18.2	52	0.1	1.6	0.2	47	
B0054355	RC Chip	2.43	0.087	5.2	25.2	10.7	38	0.3	5.5	11.1	468	3.14	38.4	4.8	11.3	17.8	37	0.2	1.8	0.4	52	
B0054356	RC Chip	2.07	0.010	2.4	18.6	27.3	30	0.3	4.5	6.4	460	2.35	10.4	2.9	4.9	17.9	62	0.1	1.6	0.6	39	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0054277	RC Chip	1.00	0.070	11	10	0.48	88	0.007	<20	1.06	0.032	0.16	0.3	<0.01	1.6	0.2	0.54	4	<0.5	<0.2
B0054278	RC Chip	0.94	0.069	10	11	0.45	112	0.021	<20	1.04	0.040	0.19	0.9	<0.01	1.6	0.2	0.36	4	<0.5	<0.2
B0054279	RC Chip	1.36	0.067	13	10	0.47	115	0.010	<20	1.23	0.040	0.18	0.3	<0.01	1.7	0.2	0.12	4	<0.5	<0.2
B0054280	RC Chip	1.38	0.069	13	11	0.47	74	0.008	<20	1.02	0.034	0.17	0.5	<0.01	1.8	0.2	0.16	4	<0.5	<0.2
B0054281	RC Chip	1.73	0.070	14	10	0.36	96	0.004	<20	1.21	0.027	0.21	0.9	<0.01	1.7	0.2	1.80	3	<0.5	0.3
B0054282	RC Chip	2.09	0.074	15	9	0.20	83	0.002	<20	0.84	0.019	0.28	1.8	<0.01	1.4	0.3	2.10	2	<0.5	0.5
B0054283	RC Chip	1.75	0.073	15	9	0.28	77	0.003	<20	0.76	0.022	0.22	2.6	<0.01	1.6	0.2	1.21	3	<0.5	0.3
B0054284	RC Chip	1.18	0.084	13	12	0.53	66	0.017	<20	1.08	0.036	0.17	0.9	<0.01	2.2	0.2	0.17	4	<0.5	<0.2
B0054285	RC Chip	1.04	0.092	17	12	0.50	78	0.012	<20	1.14	0.041	0.15	0.3	<0.01	2.6	0.2	0.29	5	<0.5	<0.2
B0054286	RC Chip	1.39	0.087	17	12	0.48	78	0.006	<20	1.14	0.041	0.17	0.2	<0.01	2.8	0.2	0.17	5	<0.5	<0.2
B0054287	RC Chip	0.95	0.087	15	14	0.56	70	0.024	<20	1.18	0.050	0.14	0.2	<0.01	3.1	0.2	0.08	5	<0.5	<0.2
B0054288	RC Chip	0.92	0.077	15	14	0.50	73	0.023	<20	1.12	0.041	0.15	0.2	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
B0054289	RC Chip	0.93	0.093	15	14	0.48	78	0.009	<20	1.09	0.040	0.15	0.2	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
B0054290	RC Chip	0.81	0.082	14	13	0.45	69	0.009	<20	1.05	0.040	0.17	0.2	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2
B0054291	RC Chip	1.14	0.084	21	12	0.44	78	0.003	<20	1.18	0.039	0.20	0.2	<0.01	2.5	0.3	0.30	5	<0.5	<0.2
B0054292	RC Chip	1.17	0.081	17	10	0.35	165	0.004	<20	1.09	0.040	0.24	0.8	<0.01	1.8	0.3	0.36	4	<0.5	<0.2
B0054293	RC Chip	0.68	0.072	13	11	0.50	148	0.022	<20	1.21	0.035	0.39	0.6	<0.01	2.2	0.7	0.30	4	<0.5	<0.2
B0054294	RC Chip	0.98	0.081	13	13	0.48	80	0.032	<20	1.12	0.046	0.21	0.3	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2
B0054295	RC Chip	0.89	0.074	12	15	0.50	68	0.056	<20	1.12	0.047	0.18	0.9	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
B0054296	RC Chip	0.72	0.080	16	16	0.65	155	0.120	<20	1.14	0.052	0.22	1.9	<0.01	3.1	0.3	0.08	6	<0.5	<0.2
B0054297	RC Chip	0.78	0.084	17	17	0.69	158	0.126	<20	1.20	0.053	0.22	2.6	<0.01	3.4	0.3	0.41	6	<0.5	<0.2
B0054298	RC Chip	0.68	0.070	21	18	0.69	183	0.132	<20	1.13	0.065	0.27	2.5	<0.01	3.5	0.4	0.10	5	<0.5	<0.2
B0054299	RC Chip	0.79	0.073	14	16	0.58	57	0.091	<20	1.09	0.051	0.13	2.5	<0.01	3.0	0.2	0.34	5	<0.5	<0.2
B0054300	RC Chip	0.78	0.080	9	16	0.52	54	0.081	<20	0.99	0.042	0.14	3.7	<0.01	2.7	0.1	0.50	5	<0.5	<0.2
B0054351	RC Chip	0.72	0.080	8	14	0.54	63	0.085	<20	1.08	0.037	0.14	3.0	<0.01	2.1	0.2	0.20	5	<0.5	<0.2
B0054352	RC Chip	0.79	0.080	14	15	0.61	59	0.090	<20	1.17	0.045	0.13	2.2	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
B0054353	RC Chip	0.69	0.070	20	16	0.68	138	0.118	<20	1.21	0.054	0.20	1.7	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2
B0054354	RC Chip	0.76	0.072	16	16	0.63	154	0.121	<20	1.20	0.070	0.23	1.9	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2
B0054355	RC Chip	0.75	0.078	20	17	0.74	200	0.129	<20	1.29	0.055	0.29	2.4	<0.01	3.8	0.3	0.33	5	<0.5	<0.2
B0054356	RC Chip	1.40	0.078	12	17	0.55	59	0.055	<20	1.43	0.042	0.13	1.5	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0054357	RC Chip	2.73	0.006	2.3	6.0	10.9	31	0.1	4.6	7.0	436	2.63	10.2	3.6	<0.5	18.1	141	0.2	1.7	0.3	45
B0054358	RC Chip	2.27	0.005	2.9	5.4	14.2	38	<0.1	4.9	12.1	492	2.57	13.0	2.3	<0.5	16.1	143	0.2	1.7	0.2	38
B0054359	RC Chip	2.69	0.013	2.3	17.3	14.3	35	0.2	4.6	7.7	443	2.52	11.8	2.5	1.8	15.9	57	0.2	1.4	0.5	41
B0054360	RC Chip	2.61	0.007	2.7	7.6	11.1	33	<0.1	4.4	6.3	400	2.19	10.8	2.8	1.4	15.6	47	0.1	1.4	0.1	35
B0054361	RC Chip	3.94	0.013	2.5	8.7	10.1	40	0.1	4.5	5.5	469	2.77	9.1	3.6	1.0	17.4	38	0.2	1.4	0.4	47
B0054362	RC Chip	2.47	0.014	2.6	4.3	8.8	35	<0.1	4.5	7.2	476	2.71	10.1	3.9	6.2	23.9	33	0.2	1.4	0.3	44
B0054363	RC Chip	2.50	<0.005	2.6	4.6	8.0	30	<0.1	4.3	6.4	479	2.58	9.6	3.8	<0.5	20.8	37	0.2	1.3	0.1	42
B0054364	RC Chip	2.16	0.006	22.7	7.1	11.0	35	<0.1	4.8	5.5	443	2.35	10.5	3.1	<0.5	21.3	54	0.1	1.5	<0.1	35
B0054365	RC Chip	2.74	0.006	3.2	2.5	11.3	35	<0.1	4.3	6.2	421	2.28	11.0	3.2	2.4	26.9	38	0.2	1.6	<0.1	34
B0054366	RC Chip	3.00	0.006	2.7	10.2	8.2	37	0.1	4.7	4.6	416	2.79	8.3	3.7	0.6	17.4	32	0.2	1.2	0.4	48
B0054367	RC Chip	2.23	0.005	2.7	4.5	8.8	39	<0.1	4.6	5.8	407	2.75	9.8	3.5	<0.5	18.7	38	0.2	1.1	0.3	49
B0054368	RC Chip	3.03	0.007	2.5	6.7	8.6	36	0.1	4.7	6.8	410	2.84	9.5	3.7	4.1	18.1	37	0.2	1.0	0.5	50
B0054369	RC Chip	2.46	0.006	2.3	2.6	14.0	37	<0.1	4.6	6.0	389	2.31	9.9	2.5	6.6	18.4	52	0.2	1.2	<0.1	34
B0054370	RC Chip	2.36	0.006	2.7	2.5	11.8	37	<0.1	4.8	6.5	389	2.40	9.2	1.8	0.8	13.2	30	0.2	1.2	0.1	35
B0054371	RC Chip	2.51	0.008	2.6	6.0	11.7	34	<0.1	5.0	4.7	381	2.43	9.0	1.9	0.7	12.8	29	0.2	1.2	0.1	40
B0054372	RC Chip	2.72	0.006	2.5	1.8	11.1	38	<0.1	5.1	11.6	424	2.55	9.1	1.5	1.0	11.6	29	0.1	1.1	0.1	33
B0054373	RC Chip	3.27	0.009	2.6	5.9	9.0	36	<0.1	5.0	10.1	425	2.75	8.2	2.5	1.3	13.4	34	0.1	1.1	<0.1	41
B0054374	RC Chip	3.25	<0.005	2.7	6.9	12.4	35	<0.1	4.9	7.5	412	2.63	7.6	2.5	0.8	14.6	93	0.2	1.1	0.1	40
B0054375	RC Chip	2.86	0.006	2.6	2.2	11.2	37	<0.1	5.6	6.8	400	2.32	7.7	1.8	4.2	13.0	36	0.1	1.2	0.2	33
B0054376	RC Chip	3.75	0.009	2.8	3.0	12.5	38	<0.1	4.6	7.0	379	2.25	8.0	3.0	1.1	14.2	36	0.2	1.0	0.2	37
B0054377	RC Chip	1.61	0.029	2.2	7.0	24.6	40	0.2	4.6	9.1	490	2.26	7.7	4.4	3.0	15.8	57	0.5	0.9	0.3	32
B0054378	RC Chip	2.35	0.032	2.2	3.6	9.8	39	0.1	4.8	10.8	538	2.48	8.8	3.2	3.4	14.3	46	0.2	0.7	0.4	35
B0054379	RC Chip	1.51	0.035	2.5	12.5	24.3	30	0.8	3.5	7.3	1251	2.28	14.6	4.5	13.9	12.1	40	0.5	1.5	1.3	14
B0054380	RC Chip	2.11	0.017	2.8	11.2	9.5	36	0.2	4.6	5.9	594	2.27	4.8	3.9	1.5	15.0	48	0.2	1.1	0.3	31
B0054381	RC Chip	1.83	0.012	2.9	2.5	14.2	38	<0.1	5.1	4.4	443	2.35	7.5	2.0	4.9	13.3	45	0.2	1.3	0.1	35
B0054382	RC Chip	1.48	0.012	3.1	9.3	12.0	35	0.1	4.7	6.2	373	2.26	8.2	2.6	1.2	13.6	37	0.2	1.2	0.3	36
B0054383	RC Chip	1.40	0.015	2.1	82.0	1200.2	3963	14.2	3.6	3.1	1373	2.33	6.2	4.4	23.1	13.5	72	172.0	20.5	2.2	20
B0054384	RC Chip	2.36	0.007	2.1	4.6	34.0	99	0.4	4.4	5.6	751	2.72	5.0	3.2	0.5	13.7	63	2.7	1.5	0.1	36
B0054385	RC Chip	2.18	0.052	3.1	8.4	12.0	41	0.2	5.3	12.8	608	2.54	17.1	4.9	26.9	11.0	61	0.5	1.3	1.4	28
B0054386	RC Chip	4.26	0.010	2.7	9.6	17.7	60	0.3	5.2	4.3	578	2.77	6.5	3.9	2.5	11.1	99	1.3	1.4	0.4	38



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

WHI20000524.1

Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
MDL		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0054357	RC Chip	1.25	0.082	16	17	0.61	125	0.086	<20	1.36	0.048	0.14	1.5	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2
B0054358	RC Chip	1.18	0.077	9	19	0.65	87	0.082	<20	1.43	0.044	0.11	2.0	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
B0054359	RC Chip	1.15	0.078	10	17	0.58	46	0.071	<20	1.53	0.051	0.09	1.8	<0.01	2.1	0.1	0.06	5	<0.5	<0.2
B0054360	RC Chip	0.73	0.073	9	19	0.54	53	0.085	<20	1.14	0.043	0.12	2.6	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2
B0054361	RC Chip	0.76	0.086	20	20	0.72	180	0.131	<20	1.26	0.054	0.27	2.2	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
B0054362	RC Chip	0.71	0.077	15	19	0.68	132	0.117	<20	1.24	0.052	0.22	2.5	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
B0054363	RC Chip	0.75	0.080	13	17	0.60	52	0.086	<20	1.22	0.047	0.10	1.9	<0.01	2.4	0.1	<0.05	5	<0.5	<0.2
B0054364	RC Chip	1.10	0.084	12	18	0.58	56	0.084	<20	1.33	0.043	0.13	2.8	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
B0054365	RC Chip	0.81	0.078	11	18	0.58	50	0.090	<20	1.21	0.039	0.12	2.4	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
B0054366	RC Chip	0.68	0.083	16	19	0.70	106	0.112	<20	1.20	0.052	0.22	2.2	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2
B0054367	RC Chip	0.73	0.075	17	20	0.66	153	0.116	<20	1.18	0.058	0.25	2.3	<0.01	3.0	0.3	<0.05	6	<0.5	<0.2
B0054368	RC Chip	0.71	0.079	20	19	0.69	144	0.119	<20	1.22	0.059	0.25	2.5	<0.01	3.5	0.3	<0.05	5	<0.5	<0.2
B0054369	RC Chip	0.83	0.087	10	15	0.60	43	0.087	<20	1.18	0.039	0.12	2.7	<0.01	2.2	0.2	<0.05	5	<0.5	<0.2
B0054370	RC Chip	0.93	0.072	8	19	0.60	34	0.089	<20	1.22	0.043	0.12	2.3	<0.01	2.0	0.2	<0.05	6	<0.5	<0.2
B0054371	RC Chip	0.80	0.074	9	18	0.58	40	0.093	<20	1.22	0.048	0.13	2.8	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
B0054372	RC Chip	0.92	0.068	7	17	0.70	32	0.085	<20	1.29	0.040	0.11	2.1	<0.01	1.9	0.2	0.07	6	<0.5	<0.2
B0054373	RC Chip	0.90	0.072	12	19	0.71	57	0.100	<20	1.27	0.044	0.14	2.4	<0.01	2.6	0.2	0.06	6	<0.5	<0.2
B0054374	RC Chip	1.35	0.072	12	20	0.62	54	0.083	<20	1.32	0.043	0.11	1.6	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
B0054375	RC Chip	0.94	0.070	7	19	0.57	42	0.083	<20	1.18	0.040	0.12	6.7	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2
B0054376	RC Chip	0.89	0.071	11	21	0.54	43	0.087	<20	1.15	0.047	0.11	2.7	<0.01	2.2	0.2	0.05	5	<0.5	<0.2
B0054377	RC Chip	1.32	0.075	15	17	0.49	56	0.045	<20	1.07	0.040	0.17	2.3	<0.01	2.4	0.3	0.24	5	<0.5	<0.2
B0054378	RC Chip	1.37	0.072	13	17	0.63	46	0.027	<20	1.20	0.037	0.16	1.2	<0.01	2.5	0.2	0.33	6	<0.5	<0.2
B0054379	RC Chip	2.71	0.065	13	14	0.29	36	0.014	<20	0.73	0.016	0.22	2.2	<0.01	1.9	0.3	0.81	3	<0.5	<0.2
B0054380	RC Chip	1.69	0.082	15	18	0.46	49	0.037	<20	1.07	0.034	0.20	1.9	<0.01	2.7	0.3	0.19	5	<0.5	<0.2
B0054381	RC Chip	0.93	0.077	9	20	0.60	57	0.095	<20	1.21	0.051	0.13	2.4	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
B0054382	RC Chip	0.84	0.074	10	21	0.53	47	0.094	<20	1.05	0.046	0.13	3.3	<0.01	2.0	0.2	0.06	5	<0.5	<0.2
B0054383	RC Chip	1.63	0.073	19	14	0.28	62	0.014	<20	1.12	0.026	0.24	1.0	0.13	2.3	0.4	0.23	3	<0.5	<0.2
B0054384	RC Chip	1.15	0.073	12	17	0.61	46	0.040	<20	1.45	0.034	0.16	0.7	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
B0054385	RC Chip	1.17	0.071	10	19	0.64	66	0.055	<20	1.39	0.038	0.25	1.1	<0.01	2.2	0.5	0.30	5	<0.5	<0.2
B0054386	RC Chip	1.02	0.076	12	22	0.67	112	0.078	<20	1.33	0.054	0.22	2.2	<0.01	2.8	0.4	<0.05	5	<0.5	<0.2



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

WHI20000524.1

Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
B0054387	RC Chip	1.58	0.006	2.1	5.5	9.2	34	<0.1	4.5	6.0	577	2.81	3.8	4.6	2.4	12.0	275	0.2	0.7	0.2	39
B0054388	RC Chip	4.47	0.015	2.6	10.8	689.3	187	2.3	4.3	6.3	646	2.56	4.8	5.0	0.7	13.7	51	5.8	4.2	0.9	34
B0054389	RC Chip	4.13	0.005	2.5	2.9	19.9	32	<0.1	4.5	4.9	419	2.55	5.9	4.3	<0.5	20.0	50	0.2	1.0	0.1	38
B0054390	RC Chip	3.84	0.039	2.3	12.6	11.0	32	0.1	4.8	5.4	400	2.91	4.7	4.6	0.5	13.8	85	0.1	0.7	0.5	51
B0054391	RC Chip	4.40	0.006	2.7	5.8	7.4	31	<0.1	4.9	6.6	416	2.95	3.4	4.7	0.7	15.4	39	<0.1	0.5	0.4	54
B0054392	RC Chip	4.01	0.007	3.0	6.0	11.5	29	<0.1	5.1	5.9	327	2.58	8.9	2.6	<0.5	12.9	45	0.1	1.2	0.2	44
B0054393	RC Chip	3.19	0.008	2.6	11.9	11.1	35	0.1	5.0	4.7	359	2.80	7.7	3.3	0.6	13.2	36	0.2	0.9	1.4	46
B0054395	RC Chip	4.29	0.016	2.4	6.7	12.5	33	<0.1	4.7	6.9	354	2.41	9.1	2.0	1.3	13.1	36	0.2	1.1	0.3	38
B0054396	RC Chip	4.06	0.035	2.5	13.2	12.7	36	0.1	4.8	7.8	356	2.58	9.4	1.8	1.2	10.3	34	0.3	0.9	0.7	40
B0054398	RC Chip	4.52	0.043	2.2	4.5	10.2	31	0.1	4.9	6.9	340	2.63	10.5	2.5	6.7	15.4	35	0.1	1.0	0.6	41
B0054399	RC Chip	3.80	0.019	2.6	7.3	7.8	27	<0.1	4.8	6.3	312	2.64	8.1	4.5	2.1	17.5	30	<0.1	0.8	0.3	43
B0054400	RC Chip	4.26	0.006	2.8	3.7	6.6	24	<0.1	4.6	6.7	345	2.77	5.7	5.2	0.8	19.4	30	<0.1	0.8	0.1	46
B0054401	RC Chip	4.27	0.007	2.9	11.5	8.9	28	<0.1	5.2	7.9	337	3.07	15.7	4.2	1.4	19.5	29	0.1	0.8	0.2	52
B0054402	RC Chip	4.34	0.041	2.7	14.8	9.3	31	0.1	5.3	7.1	346	3.11	16.3	3.1	1.6	15.8	32	0.2	0.9	0.3	52
B0054403	RC Chip	4.53	0.005	3.0	6.4	8.9	28	<0.1	5.6	9.6	341	2.96	9.1	2.4	0.6	15.4	33	0.1	1.1	0.2	52
B0054404	RC Chip	4.76	0.007	2.9	16.1	8.1	30	<0.1	5.7	7.9	321	3.11	15.6	2.9	2.0	15.1	31	0.1	0.9	1.4	49
B0054405	RC Chip	3.83	0.012	2.9	10.1	4.9	30	<0.1	5.4	7.7	377	3.10	6.9	3.6	6.1	16.0	33	<0.1	0.6	0.5	56
B0054406	RC Chip	4.30	0.006	3.4	4.1	3.1	28	<0.1	4.8	8.2	379	2.71	3.2	3.4	1.5	14.8	32	<0.1	0.4	0.2	47



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0054387	RC Chip	1.07	0.072	16	17	0.60	216	0.043	<20	1.35	0.042	0.23	0.8	<0.01	2.8	0.4	<0.05	5	<0.5	<0.2
B0054388	RC Chip	1.23	0.070	15	19	0.51	95	0.056	<20	0.98	0.037	0.28	2.1	<0.01	2.5	0.4	<0.05	4	<0.5	<0.2
B0054389	RC Chip	0.80	0.070	11	20	0.69	81	0.087	<20	1.14	0.050	0.21	1.5	<0.01	2.3	0.4	<0.05	5	<0.5	<0.2
B0054390	RC Chip	0.73	0.067	20	20	0.74	290	0.162	<20	1.23	0.081	0.45	1.5	<0.01	3.4	0.6	<0.05	5	<0.5	<0.2
B0054391	RC Chip	0.67	0.070	24	22	0.73	385	0.191	24	1.16	0.093	0.55	1.9	<0.01	3.4	0.7	<0.05	5	<0.5	<0.2
B0054392	RC Chip	0.85	0.072	12	20	0.61	61	0.115	21	1.20	0.064	0.21	1.9	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
B0054393	RC Chip	0.80	0.071	15	20	0.75	94	0.130	<20	1.28	0.060	0.31	2.1	<0.01	2.8	0.5	0.05	5	<0.5	<0.2
B0054395	RC Chip	0.92	0.069	14	19	0.69	60	0.115	<20	1.30	0.052	0.23	1.9	<0.01	2.2	0.4	<0.05	5	<0.5	<0.2
B0054396	RC Chip	0.91	0.071	12	19	0.70	52	0.106	<20	1.35	0.052	0.21	2.1	<0.01	2.1	0.4	0.08	6	<0.5	<0.2
B0054398	RC Chip	0.84	0.074	10	17	0.69	76	0.110	25	1.34	0.067	0.29	1.8	<0.01	2.8	0.5	0.26	6	<0.5	<0.2
B0054399	RC Chip	0.73	0.065	12	21	0.64	78	0.107	<20	1.16	0.056	0.21	2.7	<0.01	2.8	0.3	0.08	5	<0.5	<0.2
B0054400	RC Chip	0.67	0.063	13	22	0.64	93	0.107	<20	1.14	0.071	0.22	2.2	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
B0054401	RC Chip	0.84	0.072	14	24	0.72	76	0.116	<20	1.32	0.058	0.22	2.9	<0.01	3.3	0.3	0.17	6	<0.5	<0.2
B0054402	RC Chip	0.78	0.075	15	22	0.76	131	0.132	<20	1.39	0.071	0.32	2.3	<0.01	3.7	0.5	0.12	6	<0.5	<0.2
B0054403	RC Chip	0.84	0.076	11	23	0.69	53	0.112	27	1.29	0.053	0.19	2.7	<0.01	3.0	0.3	0.08	6	<0.5	<0.2
B0054404	RC Chip	0.71	0.075	15	23	0.77	152	0.130	<20	1.35	0.064	0.39	2.7	<0.01	3.3	0.8	0.18	6	<0.5	<0.2
B0054405	RC Chip	0.63	0.074	26	24	0.80	376	0.186	<20	1.30	0.090	0.65	2.3	<0.01	3.5	0.9	0.16	5	<0.5	<0.2
B0054406	RC Chip	0.57	0.069	26	24	0.68	416	0.192	<20	1.09	0.098	0.57	2.5	<0.01	2.7	0.7	0.07	4	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0054166 RC Chip	1.97	0.006	3.2	12.1	8.1	41	0.1	5.1	7.3	679	2.72	16.2	4.4	1.4	15.4	48	0.1	1.6	0.2	44	
REP B0054166 QC			3.1	12.2	7.8	41	0.1	5.1	7.4	686	2.75	15.2	4.2	1.5	14.8	49	0.1	1.6	0.2	43	
B0054191 RC Chip	2.36	0.010	2.6	15.9	3.0	23	0.1	4.3	7.1	434	1.90	19.9	4.7	6.6	21.0	21	<0.1	1.5	0.6	15	
REP B0054191 QC		0.010																			
B0054263 RC Chip	1.83	<0.005	1.3	4.5	8.1	26	<0.1	4.6	6.5	543	2.20	11.7	2.6	2.1	17.7	93	<0.1	1.5	0.3	32	
REP B0054263 QC		<0.005																			
B0054268 RC Chip	3.92	0.025	1.8	24.2	19.1	33	0.6	6.9	11.8	474	3.47	2614.3	3.7	52.1	15.6	172	0.1	2.5	3.6	37	
REP B0054268 QC			1.8	23.7	19.4	31	0.6	6.7	11.8	477	3.47	2645.4	3.8	14.5	15.2	172	0.2	2.5	3.6	37	
B0054353 RC Chip	3.70	0.010	2.3	15.1	8.8	35	0.1	4.4	5.1	404	2.71	8.8	3.6	<0.5	13.0	46	0.1	1.3	0.5	46	
REP B0054353 QC			2.4	15.3	7.9	32	0.1	4.5	5.1	405	2.69	9.1	3.0	<0.5	12.9	47	0.1	1.4	0.4	47	
B0054381 RC Chip	1.83	0.012	2.9	2.5	14.2	38	<0.1	5.1	4.4	443	2.35	7.5	2.0	4.9	13.3	45	0.2	1.3	0.1	35	
REP B0054381 QC		0.013																			
B0054387 RC Chip	1.58	0.006	2.1	5.5	9.2	34	<0.1	4.5	6.0	577	2.81	3.8	4.6	2.4	12.0	275	0.2	0.7	0.2	39	
REP B0054387 QC		0.005																			
B0054388 RC Chip	4.47	0.015	2.6	10.8	689.3	187	2.3	4.3	6.3	646	2.56	4.8	5.0	0.7	13.7	51	5.8	4.2	0.9	34	
REP B0054388 QC			2.6	10.7	706.3	186	2.3	4.4	6.3	646	2.57	4.8	5.0	1.0	14.2	52	5.9	4.3	0.8	34	
Core Reject Duplicates																					
B0054180 RC Chip	1.58	<0.005	3.4	14.1	6.8	32	<0.1	4.7	4.8	432	2.51	8.4	1.7	1.1	14.3	93	<0.1	1.7	0.2	32	
DUP B0054180 QC		<0.005	3.4	14.3	7.1	31	0.1	4.6	4.9	420	2.40	7.9	1.7	0.9	14.0	91	<0.1	1.7	0.2	31	
B0054282 RC Chip	3.39	0.041	2.1	19.4	63.7	32	1.3	4.7	8.8	628	2.92	19.6	10.2	24.4	16.8	46	0.5	1.3	9.8	10	
DUP B0054282 QC		0.034	2.0	19.4	60.1	32	1.3	4.7	9.0	625	2.88	19.4	9.5	25.1	16.2	44	0.4	1.1	9.9	11	
B0054366 RC Chip	3.00	0.006	2.7	10.2	8.2	37	0.1	4.7	4.6	416	2.79	8.3	3.7	0.6	17.4	32	0.2	1.2	0.4	48	
DUP B0054366 QC		0.007	2.6	9.6	8.3	36	0.1	4.6	4.9	420	2.80	8.1	3.9	0.7	18.2	32	0.2	1.1	0.6	48	
B0054402 RC Chip	4.34	0.041	2.7	14.8	9.3	31	0.1	5.3	7.1	346	3.11	16.3	3.1	1.6	15.8	32	0.2	0.9	0.3	52	
DUP B0054402 QC		0.008	2.6	14.5	9.6	31	0.1	5.4	7.3	350	3.15	16.3	3.0	1.9	16.4	32	0.2	0.9	0.3	57	
Reference Materials																					
STD BVGE001 Standard			10.5	4462.6	177.7	1784	2.5	161.0	25.7	705	3.68	118.0	3.5	201.6	14.0	53	6.0	2.5	22.5	69	
STD BVGE001 Standard			11.1	4566.3	196.4	1791	2.8	171.6	25.7	751	3.79	132.5	4.1	245.8	16.6	59	7.2	2.8	27.2	76	



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
Pulp Duplicates																				
B0054166	RC Chip	0.87	0.072	14	21	0.59	46	0.093	<20	1.29	0.060	0.11	4.4	<0.01	2.6	0.1	0.12	5	<0.5	<0.2
REP B0054166	QC	0.87	0.071	13	21	0.59	46	0.089	<20	1.30	0.060	0.10	4.3	<0.01	2.6	0.1	0.12	5	<0.5	<0.2
B0054191	RC Chip	0.46	0.080	16	11	0.34	95	0.015	<20	1.04	0.029	0.25	0.6	<0.01	1.8	0.2	0.11	3	<0.5	<0.2
REP B0054191	QC																			
B0054263	RC Chip	1.35	0.071	15	11	0.56	108	0.043	<20	1.56	0.041	0.16	0.7	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
REP B0054263	QC																			
B0054268	RC Chip	0.88	0.074	11	17	0.64	160	0.052	<20	1.47	0.081	0.26	3.3	<0.01	2.7	0.3	1.64	6	<0.5	<0.2
REP B0054268	QC	0.89	0.076	11	17	0.66	164	0.051	<20	1.47	0.081	0.26	3.2	<0.01	2.7	0.3	1.67	6	<0.5	<0.2
B0054353	RC Chip	0.69	0.070	20	16	0.68	138	0.118	<20	1.21	0.054	0.20	1.7	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2
REP B0054353	QC	0.72	0.068	20	15	0.68	128	0.119	<20	1.22	0.059	0.20	1.6	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
B0054381	RC Chip	0.93	0.077	9	20	0.60	57	0.095	<20	1.21	0.051	0.13	2.4	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
REP B0054381	QC																			
B0054387	RC Chip	1.07	0.072	16	17	0.60	216	0.043	<20	1.35	0.042	0.23	0.8	<0.01	2.8	0.4	<0.05	5	<0.5	<0.2
REP B0054387	QC																			
B0054388	RC Chip	1.23	0.070	15	19	0.51	95	0.056	<20	0.98	0.037	0.28	2.1	<0.01	2.5	0.4	<0.05	4	<0.5	<0.2
REP B0054388	QC	1.23	0.071	17	20	0.51	97	0.060	29	1.00	0.042	0.28	1.9	<0.01	2.6	0.4	<0.05	4	<0.5	<0.2
Core Reject Duplicates																				
B0054180	RC Chip	0.85	0.071	11	18	0.53	51	0.077	<20	1.29	0.055	0.12	4.4	<0.01	1.8	0.1	<0.05	5	<0.5	<0.2
DUP B0054180	QC	0.83	0.068	10	17	0.52	50	0.074	<20	1.27	0.054	0.12	4.4	<0.01	1.7	0.1	<0.05	5	<0.5	<0.2
B0054282	RC Chip	2.09	0.074	15	9	0.20	83	0.002	<20	0.84	0.019	0.28	1.8	<0.01	1.4	0.3	2.10	2	<0.5	0.5
DUP B0054282	QC	2.09	0.075	13	9	0.19	79	0.002	<20	0.83	0.019	0.28	1.6	<0.01	1.3	0.3	2.11	2	<0.5	0.4
B0054366	RC Chip	0.68	0.083	16	19	0.70	106	0.112	<20	1.20	0.052	0.22	2.2	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2
DUP B0054366	QC	0.67	0.077	15	20	0.72	110	0.117	<20	1.19	0.050	0.22	2.3	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
B0054402	RC Chip	0.78	0.075	15	22	0.76	131	0.132	<20	1.39	0.071	0.32	2.3	<0.01	3.7	0.5	0.12	6	<0.5	<0.2
DUP B0054402	QC	0.80	0.074	16	22	0.76	136	0.132	<20	1.42	0.072	0.35	2.3	<0.01	3.7	0.6	0.12	6	<0.5	<0.2
Reference Materials																				
STD BVGE001	Standard	1.31	0.073	23	163	1.24	312	0.238	<20	2.20	0.184	0.89	3.9	0.09	5.5	0.6	0.69	7	4.7	1.0
STD BVGE001	Standard	1.34	0.078	29	165	1.34	366	0.242	<20	2.34	0.190	0.91	4.1	0.10	6.2	0.7	0.68	8	5.6	1.1



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
STD DS11	Standard			13.0	149.5	135.8	352	1.6	80.0	14.0	1046	3.11	43.6	2.2	46.6	6.8	63	2.3	7.6	10.9	48	
STD DS11	Standard			13.8	140.1	134.6	343	1.7	75.2	13.4	1025	3.03	48.1	2.4	52.6	8.0	63	2.4	7.4	11.0	48	
STD OREAS262	Standard			0.6	114.7	52.2	150	0.5	62.8	26.4	543	3.22	35.3	1.0	56.1	7.6	34	0.6	3.7	0.9	20	
STD OREAS262	Standard			0.7	115.1	52.8	150	0.5	65.7	28.0	528	3.30	34.8	1.1	62.1	7.8	35	0.6	3.5	0.9	19	
STD OREAS262	Standard			0.6	115.3	56.5	155	0.5	63.0	27.5	555	3.28	39.5	1.2	63.4	10.4	35	0.7	3.5	1.0	21	
STD OREAS262	Standard			0.8	122.0	58.3	161	0.5	69.7	29.5	576	3.42	40.4	1.3	65.9	10.4	37	0.5	3.8	1.2	22	
STD OREAS232	Standard		0.963																			
STD OXB130	Standard		0.128																			
STD OXB130	Standard		0.129																			
STD OXB130	Standard		0.129																			
STD OXB130	Standard		0.131																			
STD OXG141	Standard		0.984																			
STD OXG141	Standard		0.960																			
STD OXG141	Standard		0.983																			
STD OXN155	Standard		7.796																			
STD OXN155	Standard		7.631																			
STD OXN155	Standard		8.031																			
STD OXN155	Standard		7.853																			
STD OXG141 Expected			0.93																			
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
STD OREAS232 Expected			0.902																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2
STD DS11	Standard	1.06	0.072	16	58	0.85	401	0.085	<20	1.10	0.071	0.39	3.0	0.31	2.9	4.9	0.28	5	2.2	4.9
STD DS11	Standard	1.04	0.076	17	55	0.84	431	0.082	<20	1.12	0.068	0.39	2.7	0.26	3.0	4.7	0.27	5	2.0	4.5
STD OREAS262	Standard	3.05	0.040	12	40	1.18	220	0.003	<20	1.10	0.067	0.28	0.1	0.15	2.9	0.4	0.26	4	<0.5	0.2
STD OREAS262	Standard	2.94	0.040	14	43	1.19	223	0.003	<20	1.16	0.067	0.26	0.1	0.15	2.9	0.4	0.26	4	<0.5	0.2
STD OREAS262	Standard	3.12	0.045	15	39	1.22	264	0.003	<20	1.20	0.068	0.30	0.1	0.16	3.1	0.5	0.26	4	<0.5	0.2
STD OREAS262	Standard	3.19	0.044	17	43	1.25	273	0.003	<20	1.23	0.070	0.31	0.1	0.17	4.1	0.5	0.27	4	0.7	0.2
STD OREAS232	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXG141 Expected																				
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
STD OXN155 Expected																				
STD OXB130 Expected																				
STD OREAS232 Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			



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		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
BLK	Blank	<0.005																				
BLK	Blank	<0.005																				
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank	0.006																				
Prep Wash																						
ROCK-WHI	Prep Blank		0.006	0.9	1.5	1.1	23	<0.1	0.9	3.3	394	1.80	0.9	0.4	<0.5	2.4	20	<0.1	<0.1	<0.1	20	
ROCK-WHI	Prep Blank		<0.005	0.7	1.6	0.9	23	<0.1	1.0	3.4	388	1.76	1.0	0.3	<0.5	2.1	20	<0.1	<0.1	<0.1	21	



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Project: Rude Creek
Report Date: February 23, 2021

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QUALITY CONTROL REPORT

WHI20000524.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.59	0.039	5	3	0.40	50	0.060	<20	0.76	0.059	0.07	0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	0.51	0.039	5	2	0.41	49	0.060	<20	0.75	0.065	0.07	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2



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Vancouver British Columbia V6C 3E2 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: February 06, 2021
Report Date: February 23, 2021
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CERTIFICATE OF ANALYSIS

WHI20000525.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

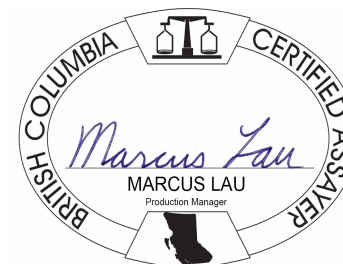
Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	136	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	137	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	137	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	137	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
Report Date: February 23, 2021

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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method Analyte Unit MDL	WGHT Wgt kg	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0054414	RC Chip	1.83	0.006	0.9	8.3	6.4	30	<0.1	4.4	5.9	524	1.93	23.0	2.1	1.9	14.9	81	0.1	2.4	0.2	18
B0054407	RC Chip	3.76	<0.005	3.6	3.7	3.6	29	<0.1	5.1	6.2	380	2.73	2.2	4.1	<0.5	19.0	34	<0.1	0.4	0.1	52
B0054408	RC Chip	4.53	<0.005	2.9	5.8	6.8	28	<0.1	4.5	6.8	307	2.84	6.9	3.8	0.7	17.6	33	<0.1	1.0	0.3	51
B0054409	RC Chip	4.03	0.022	2.9	14.5	16.5	32	<0.1	4.5	7.1	329	2.87	379.0	3.0	8.5	17.4	38	0.2	2.0	0.2	48
B0054410	RC Chip	4.58	0.019	2.5	20.1	44.3	33	0.3	4.5	8.5	385	3.19	238.0	4.3	13.0	16.2	32	0.3	1.9	1.0	45
B0054411	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0054412	RC Chip	0.14	0.029	3.9	33.1	44.2	41	0.8	11.1	9.0	502	2.54	138.2	2.5	12.6	5.0	45	0.2	2.1	3.6	34
B0054413	RC Chip	2.09	0.010	1.7	10.3	14.3	29	0.1	6.2	5.2	451	2.02	57.5	1.7	11.0	12.7	70	0.1	3.1	1.0	20
B0054415	RC Chip	1.47	0.006	0.9	7.9	9.9	35	<0.1	4.6	6.8	566	2.18	12.4	2.2	1.0	14.3	41	0.2	2.6	0.2	25
B0054416	RC Chip	1.24	0.006	0.9	16.9	9.2	32	0.2	4.3	7.3	582	2.11	9.9	2.1	1.4	14.6	100	0.2	2.1	0.6	27
B0054417	RC Chip	1.03	0.006	1.0	5.4	10.4	32	0.2	3.9	6.7	514	2.02	10.5	2.3	1.0	15.2	51	0.1	1.9	0.8	23
B0054418	RC Chip	1.86	0.009	1.1	13.5	7.8	32	<0.1	4.3	6.6	584	1.99	10.7	3.2	0.6	17.1	126	0.2	1.7	0.1	22
B0054419	RC Chip	1.83	0.012	0.7	7.1	8.6	27	0.1	3.6	5.0	534	1.93	7.5	2.2	<0.5	16.5	62	0.1	1.1	0.3	23
B0054420	RC Chip	2.17	0.011	0.7	12.1	7.8	25	0.2	3.7	7.2	405	1.94	19.4	2.8	4.5	16.9	322	<0.1	1.3	1.3	18
B0054421	RC Chip	1.37	0.008	0.9	13.3	8.5	24	0.1	3.6	6.6	388	1.81	13.3	2.5	3.0	15.8	174	0.1	1.6	0.4	21
B0054422	RC Chip	1.47	0.006	0.9	9.7	7.5	29	<0.1	3.9	6.6	452	2.08	8.7	1.4	<0.5	15.4	57	<0.1	2.0	0.2	25
B0054423	RC Chip	1.52	<0.005	1.1	3.1	6.0	25	<0.1	3.8	6.4	503	1.83	6.3	1.3	<0.5	15.4	68	0.2	1.2	<0.1	18
B0054424	RC Chip	1.01	0.009	1.1	11.5	22.8	55	1.1	3.7	6.5	520	1.93	8.1	2.8	4.0	15.8	153	0.7	2.4	0.3	19
B0054425	RC Chip	1.94	0.007	1.1	3.8	4.5	28	<0.1	4.4	6.8	533	2.06	7.0	2.4	0.9	17.8	50	<0.1	1.7	0.4	22
B0054426	RC Chip	2.17	0.006	1.6	5.4	8.8	27	<0.1	4.2	6.4	489	2.07	7.8	1.7	<0.5	17.2	30	<0.1	2.1	<0.1	24
B0054427	RC Chip	2.18	0.026	1.4	5.9	6.3	27	<0.1	4.4	6.1	439	2.12	7.3	1.4	7.0	16.4	28	<0.1	1.6	0.2	22
B0054428	RC Chip	1.96	<0.005	1.8	10.1	11.9	32	0.1	4.8	6.2	447	2.12	6.3	1.6	1.5	18.1	32	0.1	1.3	0.4	21
B0054429	RC Chip	2.14	0.007	1.9	10.8	7.9	28	<0.1	4.3	4.9	330	2.42	7.7	1.8	<0.5	15.7	33	0.1	1.2	0.6	37
B0054430	RC Chip	1.56	0.009	1.7	8.9	7.4	26	<0.1	4.1	6.4	373	2.44	8.3	3.6	1.9	16.8	83	0.1	1.2	0.5	32
B0054431	RC Chip	1.49	0.123	1.4	6.7	7.2	25	0.1	3.7	7.8	456	2.07	6.5	3.1	259.7	14.9	30	0.2	0.8	0.6	17
B0054432	RC Chip	1.62	0.020	1.5	6.9	54.2	34	0.6	3.6	6.5	361	2.93	12.6	3.0	12.1	18.8	49	0.2	1.7	2.0	16
B0054433	RC Chip	1.88	0.039	1.2	5.0	56.9	18	0.5	3.5	8.8	290	1.93	11.2	2.3	51.3	16.1	20	<0.1	0.8	1.2	10
B0054434	RC Chip	1.90	0.032	1.8	15.9	10.7	29	0.1	3.6	6.0	298	1.91	10.0	3.1	9.7	16.6	31	0.1	1.3	1.2	15
B0054435	RC Chip	1.85	0.031	3.4	7.8	17.9	21	0.3	3.3	4.7	228	2.40	9.2	3.4	16.9	14.0	23	0.3	0.4	2.5	9
B695333	Rock DUP	<0.01	0.035	2.7	7.6	16.4	20	0.3	3.4	4.3	213	2.24	8.2	3.2	40.4	11.7	21	0.3	0.5	2.4	6



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Project: Rude Creek
Report Date: February 23, 2021

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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0054414	RC Chip	0.67	0.075	11	7	0.38	142	0.026	<20	1.34	0.035	0.25	0.1	<0.01	1.8	0.2	<0.05	4	<0.5	<0.2
B0054407	RC Chip	0.59	0.075	32	24	0.66	499	0.194	<20	1.11	0.115	0.63	3.4	<0.01	3.2	0.6	<0.05	5	<0.5	<0.2
B0054408	RC Chip	0.72	0.073	22	21	0.71	252	0.140	<20	1.26	0.090	0.47	2.5	<0.01	3.4	0.6	0.06	5	<0.5	<0.2
B0054409	RC Chip	0.95	0.073	14	21	0.68	93	0.098	<20	1.32	0.069	0.31	3.2	<0.01	3.5	0.6	0.19	6	<0.5	<0.2
B0054410	RC Chip	1.09	0.069	14	16	0.73	74	0.069	<20	1.35	0.055	0.24	2.6	<0.01	3.9	0.4	0.40	6	<0.5	<0.2
B0054411	RC Chip	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
B0054412	RC Chip	0.37	0.067	12	20	0.37	137	0.026	<20	1.31	0.030	0.19	1.4	0.02	1.7	0.2	0.08	5	<0.5	<0.2
B0054413	RC Chip	0.64	0.071	11	9	0.39	144	0.029	<20	1.33	0.036	0.24	0.5	<0.01	1.6	0.2	<0.05	4	<0.5	<0.2
B0054415	RC Chip	0.72	0.071	12	9	0.46	85	0.046	<20	1.42	0.041	0.18	1.5	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
B0054416	RC Chip	1.01	0.069	13	8	0.46	80	0.043	<20	1.57	0.050	0.16	0.3	<0.01	1.7	0.2	<0.05	5	<0.5	<0.2
B0054417	RC Chip	0.80	0.070	10	8	0.43	79	0.065	<20	1.23	0.041	0.14	0.6	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
B0054418	RC Chip	1.04	0.073	12	8	0.42	109	0.041	<20	1.37	0.045	0.17	0.6	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
B0054419	RC Chip	1.33	0.072	14	6	0.42	80	0.005	<20	1.27	0.042	0.16	<0.1	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2
B0054420	RC Chip	0.71	0.062	17	6	0.31	177	0.004	<20	1.30	0.038	0.22	<0.1	<0.01	1.7	0.3	0.09	4	<0.5	<0.2
B0054421	RC Chip	1.02	0.067	15	6	0.34	117	0.019	<20	1.54	0.048	0.19	0.1	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
B0054422	RC Chip	0.81	0.068	10	7	0.48	85	0.060	<20	1.20	0.042	0.16	0.6	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2
B0054423	RC Chip	1.04	0.064	11	7	0.39	90	0.026	<20	1.07	0.028	0.21	0.2	<0.01	1.6	0.2	<0.05	4	<0.5	<0.2
B0054424	RC Chip	1.01	0.068	16	7	0.34	116	0.012	<20	1.24	0.033	0.21	0.2	<0.01	1.7	0.3	<0.05	3	<0.5	<0.2
B0054425	RC Chip	0.73	0.068	13	9	0.42	79	0.036	<20	1.00	0.034	0.17	0.2	<0.01	1.9	0.2	0.05	3	<0.5	<0.2
B0054426	RC Chip	0.76	0.073	11	11	0.42	85	0.076	<20	1.04	0.034	0.16	0.8	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2
B0054427	RC Chip	0.79	0.067	10	9	0.43	72	0.058	<20	1.04	0.034	0.16	0.6	<0.01	1.5	0.2	<0.05	4	<0.5	<0.2
B0054428	RC Chip	1.00	0.070	14	11	0.42	75	0.040	<20	0.98	0.030	0.18	0.9	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
B0054429	RC Chip	0.65	0.063	11	14	0.48	47	0.081	<20	0.93	0.042	0.10	1.5	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2
B0054430	RC Chip	0.64	0.063	14	13	0.46	85	0.065	<20	1.01	0.044	0.14	1.1	<0.01	2.3	0.1	0.06	4	<0.5	<0.2
B0054431	RC Chip	0.90	0.059	13	9	0.36	62	0.013	<20	0.84	0.028	0.17	0.6	<0.01	1.6	0.2	0.08	3	<0.5	<0.2
B0054432	RC Chip	0.53	0.055	14	8	0.32	119	0.013	<20	0.95	0.063	0.31	0.9	<0.01	1.5	0.3	0.50	4	<0.5	0.4
B0054433	RC Chip	0.83	0.058	12	6	0.29	85	0.010	<20	0.80	0.023	0.25	1.2	<0.01	1.0	0.3	0.45	3	<0.5	<0.2
B0054434	RC Chip	0.67	0.061	13	9	0.33	102	0.033	<20	0.90	0.032	0.22	1.1	<0.01	1.4	0.3	0.16	4	<0.5	<0.2
B0054435	RC Chip	0.77	0.046	22	8	0.26	82	0.007	<20	0.62	0.042	0.20	1.2	<0.01	1.2	0.3	1.51	4	<0.5	0.4
B695333	Rock DUP	0.72	0.043	20	7	0.24	71	0.006	<20	0.58	0.039	0.14	1.0	<0.01	1.2	0.2	1.41	3	<0.5	0.4



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Project: Rude Creek
Report Date: February 23, 2021

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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1
B0054436	RC Chip	2.02	0.030	3.2	20.6	7.7	30	0.1	3.7	4.6	291	1.99	6.9	3.0	48.2	11.2	24	0.3	0.8	2.3	10
B0054437	RC Chip	1.72	0.033	2.0	25.2	8.7	33	0.1	4.5	6.8	335	2.26	9.2	3.6	14.2	16.5	46	0.3	1.1	2.2	25
B0054438	RC Chip	2.47	0.141	1.8	24.7	6.5	30	<0.1	4.4	6.6	261	2.28	7.7	3.3	10.4	17.0	35	<0.1	1.1	2.5	31
B0054439	RC Chip	1.65	0.046	1.5	17.7	9.4	24	0.2	3.7	6.3	263	1.96	7.1	3.1	10.8	16.5	37	<0.1	1.0	1.3	26
B0054440	RC Chip	2.02	0.011	1.5	6.4	7.9	25	<0.1	4.1	5.3	286	2.24	8.6	2.7	8.9	14.1	61	<0.1	1.7	0.3	32
B0054441	RC Chip	1.86	0.055	1.8	7.5	8.2	30	0.2	5.1	11.7	320	2.69	22.2	4.1	27.9	16.4	50	0.2	1.8	1.4	31
B0054442	RC Chip	1.64	0.174	1.4	12.1	5.1	25	0.1	4.2	6.1	391	2.16	11.1	3.2	99.3	14.6	36	<0.1	0.9	2.3	31
B0054443	RC Chip	1.45	0.025	1.5	9.0	8.5	29	0.1	4.0	7.1	339	2.47	12.4	3.6	24.9	14.4	58	0.2	1.1	1.3	35
B0054444	RC Chip	2.14	0.005	1.8	5.0	5.0	34	<0.1	4.5	7.1	326	2.81	9.2	4.7	1.9	15.7	40	<0.1	0.6	0.6	50
B0054445	RC Chip	2.34	0.041	1.4	12.6	5.5	42	0.1	4.0	5.5	396	2.59	6.0	4.1	5.9	16.0	44	0.2	0.5	1.9	48
B0054446	RC Chip	2.72	0.010	1.3	3.4	13.3	26	0.2	3.8	6.2	414	2.10	13.5	2.9	9.9	13.2	94	0.2	0.8	0.7	28
B0054447	RC Chip	1.87	0.064	1.7	15.6	7.0	27	0.1	4.3	4.7	295	2.29	9.2	2.2	9.3	13.2	60	<0.1	1.0	1.6	35
B0054448	RC Chip	2.21	0.037	1.7	11.6	6.6	26	<0.1	4.1	6.0	264	2.41	12.2	2.4	22.8	13.4	78	0.1	1.1	1.0	37
B0054449	RC Chip	2.18	0.037	1.7	9.2	8.1	29	0.1	4.9	8.2	287	2.64	16.5	2.9	111.0	14.6	76	0.1	1.2	1.4	44
B0054450	RC Chip	1.96	0.031	1.7	8.1	5.7	32	<0.1	4.3	12.1	335	2.72	13.3	3.1	18.8	17.3	59	<0.1	1.1	0.6	48
B0054451	RC Chip	4.01	0.009	1.5	12.7	7.3	32	<0.1	4.1	15.8	386	2.65	12.6	2.3	3.6	13.8	61	0.2	1.4	0.5	43
B0054452	RC Chip	2.25	0.006	2.0	7.8	5.9	35	0.1	4.3	73.3	416	2.86	10.5	3.3	2.3	18.0	59	<0.1	0.9	0.7	49
B0054453	RC Chip	2.65	0.006	1.6	17.4	7.0	31	0.1	4.3	7.1	356	2.61	15.0	3.3	3.9	17.4	58	0.1	0.9	0.8	44
B0054454	RC Chip	2.21	0.006	1.8	13.3	6.9	32	<0.1	4.3	7.9	351	2.63	12.2	3.1	2.9	15.5	55	0.2	1.0	0.5	41
B0054455	RC Chip	3.40	0.017	1.5	6.7	19.7	24	0.5	4.0	7.7	393	2.30	75.2	3.4	12.3	14.9	50	0.1	1.1	7.8	28
B0054456	RC Chip	2.97	0.009	1.6	2.6	6.5	29	<0.1	3.9	5.3	393	2.17	25.4	3.1	4.0	16.2	40	<0.1	0.5	1.1	31
B0054457	RC Chip	2.63	0.008	1.7	3.9	7.0	33	<0.1	4.2	13.1	366	2.52	13.6	3.2	2.1	14.3	92	0.1	0.9	0.6	41
B0054458	RC Chip	2.18	0.006	1.7	6.7	8.0	32	<0.1	4.9	5.7	339	2.67	16.3	3.7	2.1	14.3	102	0.2	1.0	0.4	47
B0054459	RC Chip	3.32	<0.005	1.6	2.0	7.6	28	<0.1	4.1	6.3	329	2.24	11.0	3.2	1.1	13.6	53	0.2	1.1	0.4	37
B0054460	RC Chip	2.49	0.010	1.8	8.6	8.4	27	0.2	3.6	6.3	323	2.37	35.9	4.9	6.9	13.6	46	<0.1	0.8	2.1	31
B0054461	RC Chip	3.15	0.006	1.6	8.2	5.2	32	<0.1	3.9	7.5	340	2.10	9.9	2.4	2.5	12.4	54	<0.1	1.1	1.1	24
B0054462	RC Chip	4.48	0.010	1.0	17.7	7.4	27	0.1	4.2	5.7	334	2.57	9.8	2.4	16.7	14.6	131	<0.1	1.0	0.6	43
B0054463	RC Chip	3.26	<0.005	1.2	16.7	8.4	31	0.1	4.4	5.8	362	2.73	9.9	3.6	<0.5	17.6	70	0.1	1.0	0.2	48
B0054464	RC Chip	2.14	<0.005	1.2	5.1	7.5	24	<0.1	3.8	6.0	290	2.22	7.9	3.3	<0.5	12.7	64	<0.1	0.9	0.2	38
B0054465	RC Chip	2.77	<0.005	1.6	7.4	6.4	28	<0.1	4.2	6.1	337	2.39	7.7	4.4	<0.5	19.9	48	<0.1	1.0	0.3	39



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Project: Rude Creek
Report Date: February 23, 2021

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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
MDL		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0054436	RC Chip	0.82	0.047	19	9	0.34	65	0.019	<20	0.75	0.041	0.17	1.6	<0.01	1.3	0.3	0.68	5	<0.5	0.2
B0054437	RC Chip	0.79	0.059	15	11	0.44	74	0.027	<20	1.02	0.043	0.15	0.7	<0.01	2.3	0.2	0.39	5	<0.5	<0.2
B0054438	RC Chip	0.73	0.057	12	12	0.47	54	0.059	<20	0.92	0.041	0.12	1.6	<0.01	2.3	0.2	0.36	5	<0.5	0.2
B0054439	RC Chip	1.17	0.065	12	11	0.40	66	0.043	<20	0.86	0.041	0.17	1.5	<0.01	2.1	0.2	0.38	4	<0.5	0.4
B0054440	RC Chip	0.79	0.070	13	12	0.46	80	0.094	<20	1.08	0.056	0.17	1.2	<0.01	2.5	0.2	0.06	5	<0.5	<0.2
B0054441	RC Chip	0.84	0.067	12	11	0.53	93	0.082	<20	1.24	0.054	0.21	1.2	<0.01	2.9	0.3	0.39	5	<0.5	<0.2
B0054442	RC Chip	1.44	0.074	16	10	0.48	87	0.019	<20	1.06	0.050	0.23	1.0	<0.01	2.9	0.3	0.50	5	<0.5	<0.2
B0054443	RC Chip	1.04	0.068	15	11	0.51	116	0.070	<20	1.09	0.059	0.22	1.4	<0.01	2.7	0.2	0.60	5	<0.5	<0.2
B0054444	RC Chip	0.67	0.066	25	16	0.71	249	0.164	<20	1.10	0.082	0.33	1.8	<0.01	3.7	0.3	0.14	5	<0.5	<0.2
B0054445	RC Chip	0.90	0.066	25	13	0.65	294	0.136	<20	1.16	0.078	0.40	1.1	<0.01	3.8	0.4	0.13	5	<0.5	0.5
B0054446	RC Chip	1.82	0.066	13	10	0.39	71	0.013	<20	1.34	0.048	0.22	0.3	<0.01	2.5	0.2	0.28	4	<0.5	<0.2
B0054447	RC Chip	0.84	0.069	11	13	0.53	68	0.058	<20	1.08	0.056	0.14	0.9	<0.01	3.1	0.2	0.20	5	<0.5	<0.2
B0054448	RC Chip	0.74	0.073	12	13	0.52	79	0.087	<20	1.15	0.061	0.16	1.3	<0.01	2.6	0.2	0.22	5	<0.5	<0.2
B0054449	RC Chip	1.09	0.072	15	15	0.57	65	0.105	<20	1.19	0.068	0.15	2.0	<0.01	3.4	0.2	0.47	5	<0.5	<0.2
B0054450	RC Chip	1.08	0.071	17	15	0.62	130	0.121	<20	1.29	0.073	0.23	47.1	<0.01	3.6	0.3	0.19	5	<0.5	<0.2
B0054451	RC Chip	0.92	0.078	14	12	0.60	59	0.096	<20	1.27	0.057	0.16	60.7	0.01	3.1	0.2	0.21	6	<0.5	<0.2
B0054452	RC Chip	1.04	0.075	16	16	0.68	96	0.114	<20	1.33	0.063	0.19	>100	*	3.6	0.2	0.10	6	<0.5	<0.2
B0054453	RC Chip	0.86	0.074	16	14	0.56	54	0.108	<20	1.20	0.065	0.13	23.7	<0.01	3.0	0.2	0.21	5	<0.5	<0.2
B0054454	RC Chip	0.80	0.072	14	15	0.61	73	0.100	<20	1.11	0.055	0.14	18.6	<0.01	2.7	0.2	0.19	5	<0.5	<0.2
B0054455	RC Chip	1.38	0.072	16	10	0.41	72	0.016	<20	1.00	0.042	0.23	7.9	<0.01	2.5	0.2	0.64	4	<0.5	3.4
B0054456	RC Chip	1.37	0.071	18	11	0.47	82	0.016	<20	1.07	0.045	0.23	2.6	<0.01	2.9	0.2	0.36	5	<0.5	0.4
B0054457	RC Chip	1.00	0.073	15	14	0.61	69	0.081	<20	1.20	0.058	0.15	60.2	0.01	2.9	0.2	0.20	5	<0.5	<0.2
B0054458	RC Chip	1.07	0.071	15	14	0.60	72	0.108	<20	1.37	0.070	0.14	4.3	<0.01	3.0	0.1	0.10	6	<0.5	<0.2
B0054459	RC Chip	0.86	0.069	12	13	0.51	59	0.096	<20	1.10	0.057	0.15	3.5	<0.01	2.8	0.2	0.23	5	<0.5	<0.2
B0054460	RC Chip	0.99	0.070	16	11	0.44	64	0.052	<20	1.09	0.052	0.18	2.6	<0.01	2.6	0.2	0.40	5	<0.5	0.7
B0054461	RC Chip	0.88	0.062	11	10	0.51	66	0.063	<20	1.11	0.052	0.21	2.0	<0.01	1.8	0.3	0.25	5	<0.5	<0.2
B0054462	RC Chip	0.88	0.070	16	11	0.60	124	0.108	<20	1.32	0.062	0.21	1.8	<0.01	2.8	0.3	0.07	5	<0.5	<0.2
B0054463	RC Chip	0.83	0.071	16	12	0.67	71	0.111	<20	1.28	0.063	0.14	1.5	<0.01	3.2	0.2	<0.05	6	<0.5	<0.2
B0054464	RC Chip	0.83	0.061	12	11	0.47	80	0.091	<20	1.19	0.074	0.14	1.7	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
B0054465	RC Chip	0.65	0.062	14	13	0.55	138	0.112	<20	1.07	0.059	0.23	1.9	<0.01	2.9	0.3	0.09	5	<0.5	<0.2



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Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	
B0054466	RC Chip	3.73	0.006	1.5	2.3	8.7	30	<0.1	4.3	6.1	336	2.23	11.6	3.0	1.3	13.7	55	<0.1	1.2	0.5	38
B0054467	RC Chip	3.33	0.015	5.8	4.3	9.1	29	0.1	4.8	11.9	308	2.29	31.1	3.6	10.4	12.2	67	0.1	1.3	1.9	35
B0054468	RC Chip	3.48	0.016	5.9	3.7	10.3	30	0.2	4.3	10.7	316	2.21	29.3	3.7	11.1	12.2	50	0.2	1.1	1.2	31
B0054469	RC Chip	3.18	0.010	4.0	4.2	9.9	28	0.1	4.1	8.0	309	2.07	19.6	4.9	7.2	14.3	54	0.1	1.0	0.8	31
B0054470	RC Chip	4.14	0.007	3.8	22.0	4.8	28	<0.1	4.3	8.0	324	2.06	10.7	4.9	15.9	19.2	50	<0.1	0.8	0.6	35
B0054471	RC Chip	2.52	0.013	5.8	32.2	8.2	30	0.2	4.6	9.6	307	2.19	13.0	3.7	2.2	12.7	54	0.1	0.9	0.6	36
B0054472	RC Chip	4.16	0.085	3.5	78.1	11.3	30	0.5	4.4	7.1	306	2.34	13.1	2.6	42.4	12.4	54	0.2	0.8	17.3	39
B0054473	RC Chip	2.45	0.036	4.0	27.0	9.3	30	0.2	4.6	9.1	295	2.36	15.1	3.8	13.5	15.3	58	0.2	0.9	2.9	40
B0054474	RC Chip	3.87	0.035	3.9	12.5	9.9	29	0.1	4.3	9.3	307	2.44	15.3	3.8	11.5	22.7	86	0.1	0.8	1.6	42
B0054475	RC Chip	2.46	0.006	2.3	4.8	7.0	30	<0.1	4.4	6.7	366	2.69	5.7	3.6	4.3	14.2	94	<0.1	0.7	1.0	44
B0054476	RC Chip	2.25	0.054	2.7	2.8	8.7	25	0.2	3.8	7.0	273	3.98	190.3	4.9	42.3	16.0	79	0.1	0.6	6.3	29
B0054477	RC Chip	3.03	0.044	2.0	2.8	8.7	32	<0.1	4.7	2.9	313	2.39	16.2	3.0	3.2	17.3	83	0.1	0.8	0.9	38
B0054478	RC Chip	3.56	0.036	2.2	16.9	7.6	24	0.1	4.3	4.7	228	2.17	10.6	4.4	22.6	16.6	33	0.1	0.6	1.9	35
B0054479	RC Chip	3.00	0.054	2.5	18.0	8.5	26	0.1	4.6	5.2	233	2.28	11.8	3.7	21.8	16.5	36	<0.1	0.7	1.7	38
B0054480	RC Chip	3.65	0.008	2.7	15.2	7.2	27	<0.1	4.5	7.0	316	2.45	8.6	3.7	2.8	15.7	43	<0.1	1.1	0.6	41
B0054481	RC Chip	3.40	0.005	3.8	23.0	8.7	29	0.2	5.3	7.7	342	2.73	8.3	4.3	5.4	15.1	53	0.1	1.1	1.2	45
B0054482	RC Chip	2.28	0.008	2.3	20.1	6.4	27	0.2	4.7	27.1	290	2.52	9.6	4.2	5.1	13.7	45	<0.1	0.9	2.3	40
B0054483	RC Chip	3.62	0.010	2.8	31.2	7.5	26	0.2	5.0	36.4	313	2.47	7.7	4.0	9.6	14.3	57	<0.1	1.3	1.7	39
B0054484	RC Chip	2.12	0.012	2.9	25.4	9.6	28	0.3	5.6	16.1	344	2.90	10.3	4.1	10.1	15.2	89	0.2	1.0	6.6	44
B0054485	RC Chip	2.95	0.008	2.3	30.7	6.1	26	0.1	4.2	14.1	307	2.49	5.5	3.7	2.2	15.0	46	<0.1	0.8	0.9	29
B0054486	RC Chip	3.72	0.005	2.0	12.5	6.6	21	0.1	4.2	7.1	233	1.99	7.4	2.9	1.5	15.6	50	<0.1	0.8	1.4	22
B0054487	RC Chip	3.45	0.006	2.1	15.9	6.6	35	0.1	5.6	15.2	406	3.14	6.3	5.7	4.4	25.4	65	<0.1	0.8	1.4	51
B0054488	RC Chip	3.15	0.113	1.7	51.2	6.8	28	0.2	4.7	6.4	323	2.53	8.8	5.3	12.4	21.7	60	<0.1	0.7	3.5	33
B0054489	RC Chip	2.12	0.066	2.3	28.8	6.9	27	0.1	5.0	9.1	306	2.69	10.9	5.8	38.7	22.0	66	<0.1	0.6	2.5	42
B0054490	RC Chip	3.18	0.018	2.3	24.7	6.1	26	0.1	4.4	5.9	274	2.43	12.5	7.5	6.5	20.1	36	<0.1	0.5	2.3	38
B0054491	RC Chip	3.43	0.005	2.2	5.9	4.9	25	<0.1	4.2	5.1	326	2.45	4.8	6.8	11.1	19.4	33	<0.1	0.5	0.3	41
B0054492	RC Chip	2.76	0.009	2.3	21.4	7.7	31	0.1	4.8	6.1	308	2.45	9.6	6.8	3.2	20.6	45	0.1	0.8	2.7	41
B0054493	RC Chip	4.24	0.005	2.4	4.8	7.7	23	<0.1	3.8	3.7	263	1.88	5.4	5.9	2.0	16.3	28	<0.1	0.7	0.7	26
B0053927	RC Chip	2.86	0.326	4.3	25.6	1606.0	17	9.7	4.1	3.3	149	2.81	259.0	2.4	283.8	14.1	27	0.2	27.1	13.3	15
B0053926	Rock DUP		0.617	4.3	27.4	1605.9	17	9.7	4.1	3.5	152	2.87	260.2	2.3	125.2	13.8	27	0.2	25.8	13.9	16



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: February 23, 2021

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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0054466	RC Chip	0.80	0.074	12	13	0.57	56	0.104	<20	1.22	0.064	0.15	1.8	<0.01	2.3	0.2	0.15	6	<0.5	<0.2
B0054467	RC Chip	0.68	0.065	12	13	0.50	63	0.081	<20	1.13	0.061	0.16	1.8	<0.01	2.8	0.3	0.55	5	<0.5	0.3
B0054468	RC Chip	0.71	0.060	10	14	0.51	63	0.077	<20	1.14	0.062	0.17	2.9	<0.01	2.4	0.2	0.37	5	<0.5	<0.2
B0054469	RC Chip	0.74	0.062	11	15	0.47	61	0.078	<20	1.12	0.062	0.15	2.2	<0.01	2.3	0.2	0.24	5	<0.5	<0.2
B0054470	RC Chip	0.77	0.061	12	16	0.46	63	0.080	<20	1.05	0.065	0.15	3.2	<0.01	3.0	0.2	0.27	5	<0.5	<0.2
B0054471	RC Chip	0.74	0.071	11	18	0.48	58	0.097	<20	1.09	0.064	0.14	3.4	<0.01	2.5	0.2	0.17	5	<0.5	<0.2
B0054472	RC Chip	0.90	0.069	12	16	0.52	52	0.092	<20	1.23	0.066	0.12	3.1	<0.01	2.6	0.2	0.41	6	<0.5	<0.2
B0054473	RC Chip	0.80	0.070	11	18	0.52	51	0.095	<20	1.11	0.062	0.13	2.7	<0.01	2.7	0.2	0.37	6	<0.5	<0.2
B0054474	RC Chip	1.06	0.069	14	17	0.56	53	0.081	<20	1.14	0.058	0.13	2.8	<0.01	3.2	0.2	0.40	6	<0.5	<0.2
B0054475	RC Chip	0.97	0.065	19	16	0.65	131	0.071	<20	1.11	0.048	0.21	1.9	<0.01	3.2	0.2	0.50	5	<0.5	0.2
B0054476	RC Chip	1.10	0.072	15	12	0.41	75	0.015	<20	1.11	0.049	0.17	0.9	<0.01	2.6	0.3	1.01	5	0.8	3.6
B0054477	RC Chip	1.20	0.068	12	14	0.53	51	0.060	<20	1.19	0.058	0.10	1.8	<0.01	2.1	0.1	0.13	5	<0.5	0.4
B0054478	RC Chip	0.70	0.064	10	17	0.51	44	0.076	<20	1.02	0.047	0.10	2.8	<0.01	2.8	0.2	0.33	6	<0.5	<0.2
B0054479	RC Chip	0.72	0.070	10	17	0.51	50	0.076	<20	1.05	0.050	0.11	3.0	<0.01	2.5	0.2	0.38	6	<0.5	<0.2
B0054480	RC Chip	0.90	0.065	13	19	0.54	49	0.093	<20	1.17	0.060	0.15	2.2	<0.01	2.7	0.2	0.16	6	<0.5	<0.2
B0054481	RC Chip	0.91	0.073	13	25	0.55	47	0.107	<20	1.21	0.069	0.13	3.9	<0.01	3.1	0.2	0.20	6	<0.5	<0.2
B0054482	RC Chip	0.84	0.076	12	13	0.54	93	0.098	<20	1.06	0.056	0.18	55.4	<0.01	2.9	0.3	0.56	5	<0.5	0.7
B0054483	RC Chip	0.88	0.069	13	16	0.48	71	0.095	<20	1.21	0.078	0.18	>100	<0.01	2.9	0.3	0.31	5	<0.5	0.3
B0054484	RC Chip	0.90	0.070	20	17	0.61	90	0.110	<20	1.37	0.077	0.19	18.1	<0.01	3.6	0.3	0.72	6	<0.5	0.6
B0054485	RC Chip	0.84	0.067	18	15	0.57	164	0.110	<20	1.25	0.064	0.22	70.6	0.01	2.7	0.3	0.10	5	<0.5	<0.2
B0054486	RC Chip	0.62	0.066	10	15	0.43	45	0.073	<20	0.83	0.042	0.07	6.3	<0.01	2.1	0.2	0.28	4	<0.5	<0.2
B0054487	RC Chip	0.83	0.074	31	18	0.78	369	0.155	<20	1.28	0.052	0.45	43.1	<0.01	3.9	0.6	0.23	6	<0.5	<0.2
B0054488	RC Chip	0.91	0.062	19	15	0.62	152	0.073	<20	1.12	0.044	0.23	3.2	<0.01	3.1	0.4	0.29	5	<0.5	<0.2
B0054489	RC Chip	0.76	0.062	21	17	0.62	241	0.115	<20	1.12	0.049	0.33	5.6	<0.01	3.5	0.5	0.38	5	<0.5	<0.2
B0054490	RC Chip	0.57	0.060	18	17	0.55	210	0.100	<20	0.97	0.049	0.27	3.2	<0.01	3.4	0.4	0.29	5	<0.5	<0.2
B0054491	RC Chip	0.58	0.054	21	18	0.57	259	0.147	<20	0.97	0.066	0.35	3.9	<0.01	3.1	0.5	0.07	5	<0.5	<0.2
B0054492	RC Chip	0.67	0.059	18	19	0.65	117	0.124	<20	1.05	0.049	0.18	3.0	<0.01	3.4	0.3	0.35	6	<0.5	0.3
B0054493	RC Chip	0.64	0.043	8	16	0.46	43	0.055	<20	0.86	0.057	0.12	2.6	<0.01	2.0	0.2	0.21	4	<0.5	0.2
B0053927	RC Chip	0.20	0.083	13	7	0.16	154	0.016	<20	0.52	0.022	0.38	0.9	<0.01	1.4	0.3	0.64	3	0.6	0.7
B0053926	Rock DUP	0.20	0.085	13	8	0.16	150	0.015	<20	0.53	0.022	0.38	1.0	<0.01	1.3	0.3	0.66	3	0.6	0.6



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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	1
B0053928	RC Chip	1.52	0.124	2.7	29.9	651.5	27	2.5	4.1	3.4	177	2.62	148.8	2.6	120.5	14.3	21	0.1	7.4	6.2	13
B0053929	RC Chip	1.82	0.460	1.7	12.4	200.8	26	1.2	4.0	6.9	278	2.58	64.3	3.6	35.4	16.1	22	0.1	3.1	4.6	15
B0053930	RC Chip	2.19	0.029	1.2	18.2	45.4	30	0.4	3.9	4.8	331	2.41	31.5	3.2	12.8	16.5	27	0.1	2.1	2.9	19
B0053931	RC Chip	1.50	0.024	1.5	24.4	61.4	31	0.5	4.1	6.7	270	2.56	34.7	4.2	16.8	17.7	29	0.1	2.2	4.0	14
B0053932	RC Chip	1.56	0.038	6.9	28.0	21.0	27	0.4	4.2	7.6	376	2.43	44.9	3.0	17.4	15.4	22	0.2	2.0	2.4	12
B0053933	RC Chip	1.23	0.008	2.9	17.3	14.1	29	0.2	3.2	4.6	318	2.56	39.6	3.2	7.0	16.7	27	0.2	1.5	1.8	14
B0053934	RC Chip	1.79	0.017	1.0	15.6	11.3	34	0.2	4.4	7.4	484	2.20	23.6	5.2	6.2	17.1	22	0.3	1.1	2.1	13
B0053935	RC Chip	1.70	0.014	1.7	16.5	13.7	34	0.2	5.2	7.8	468	1.88	23.0	4.2	4.5	19.1	24	0.3	1.3	1.3	12
B0053936	RC Chip	1.67	0.021	1.4	23.6	11.8	23	0.3	3.2	5.9	321	1.99	47.5	2.9	10.7	16.6	42	0.1	1.3	2.3	11
B0053937	RC Chip	1.87	0.058	14.4	35.6	6.6	39	0.2	8.6	7.4	487	2.07	22.2	2.6	13.2	17.4	31	0.3	1.3	0.7	15
B0053938	RC Chip	1.65	0.023	3.4	42.7	30.7	35	0.2	4.6	5.8	479	2.15	22.9	3.2	4.7	17.6	31	0.1	1.7	0.7	17
B0053939	RC Chip	1.57	0.015	1.6	12.3	18.7	37	0.1	4.2	10.1	477	2.20	26.6	2.8	24.3	16.2	26	0.1	1.7	0.4	21
B0053940	RC Chip	1.70	0.015	1.1	47.6	17.3	33	0.2	4.0	9.6	465	1.89	19.5	2.4	11.3	16.5	19	0.1	1.3	0.6	15
B0053941	RC Chip	1.60	0.021	1.3	17.4	10.1	33	0.2	4.3	8.3	423	1.98	57.9	4.8	16.3	20.1	53	0.1	1.5	0.9	11
B0053942	RC Chip	1.63	0.021	1.5	10.4	7.5	22	0.2	3.9	7.0	355	1.67	46.9	3.5	11.1	14.8	35	0.1	1.5	0.9	11
B0053943	RC Chip	1.59	0.083	1.3	10.4	5.2	29	0.1	4.4	6.6	677	2.11	37.2	2.9	42.0	16.5	34	0.2	1.1	0.8	14
B0053944	RC Chip	1.77	0.029	1.5	9.5	29.2	25	0.4	4.2	8.0	375	2.44	28.2	3.6	17.5	17.7	19	0.1	1.3	2.5	18
B0053945	RC Chip	1.92	0.026	1.8	6.7	28.2	20	0.4	3.6	8.0	297	2.42	42.8	2.9	10.5	17.2	23	<0.1	1.6	2.1	16
B0053946	RC Chip	1.98	0.018	1.5	5.2	27.6	27	0.4	4.1	10.6	438	2.14	32.4	2.9	8.4	15.4	75	0.1	1.5	2.0	17
B0053947	RC Chip	2.15	0.009	1.3	6.6	12.2	30	<0.1	3.9	5.7	477	1.93	15.6	2.3	4.3	16.4	44	0.1	1.4	0.4	19
B0053948	RC Chip	1.81	0.023	1.9	9.9	8.3	33	0.1	4.7	10.4	584	2.34	45.3	3.7	8.8	17.1	48	0.2	1.3	0.6	17
B0053949	RC Chip	1.81	0.007	1.5	10.9	9.7	30	<0.1	4.3	6.4	490	2.16	16.9	2.5	3.5	15.3	63	<0.1	1.5	0.3	22
B0053950	RC Chip	2.20	0.007	1.2	8.8	8.0	23	<0.1	3.9	6.1	415	1.87	14.9	3.9	1.6	15.8	49	<0.1	1.3	0.3	18
B0053951	RC Chip	1.98	0.051	2.0	35.1	12.3	25	0.3	4.9	9.1	498	2.39	69.7	3.4	12.4	16.5	87	0.2	1.8	1.3	22
B0053952	RC Chip	2.19	0.006	1.6	11.0	12.3	33	<0.1	4.2	5.7	649	2.40	15.2	2.7	2.0	15.6	114	0.1	2.1	0.3	29
B0053953	RC Chip	1.70	0.007	1.4	7.5	11.8	31	0.1	4.2	7.2	622	2.48	18.9	3.5	3.2	16.5	192	0.2	1.6	0.5	35
B0053954	RC Chip	2.23	0.010	1.6	8.2	14.1	34	0.1	4.1	6.6	624	2.31	29.2	2.8	2.5	15.3	118	0.1	1.9	0.5	26
B0053955	RC Chip	2.04	0.007	2.0	21.6	23.8	31	0.2	4.3	6.6	561	2.22	11.3	2.6	1.7	13.4	101	<0.1	1.8	0.4	24
B0053956	RC Chip	2.14	0.008	1.6	36.9	42.1	58	0.3	4.9	5.6	597	2.31	14.6	3.6	3.8	12.8	203	2.2	1.6	0.9	23
B0053957	RC Chip	2.12	0.008	7.7	14.9	20.8	33	0.1	3.9	3.5	501	2.19	9.8	2.5	1.1	12.2	163	0.4	2.0	0.5	23



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0053928	RC Chip	0.15	0.050	16	7	0.18	122	0.008	<20	0.61	0.040	0.27	1.0	<0.01	1.4	0.2	0.34	3	<0.5	0.8
B0053929	RC Chip	0.28	0.066	16	8	0.26	116	0.015	<20	0.73	0.027	0.22	2.3	<0.01	1.4	0.3	0.27	3	<0.5	0.4
B0053930	RC Chip	0.33	0.073	13	8	0.36	109	0.027	<20	0.90	0.034	0.23	2.2	<0.01	1.3	0.3	0.18	3	<0.5	0.4
B0053931	RC Chip	0.17	0.063	13	7	0.31	146	0.018	<20	0.83	0.036	0.22	7.4	0.01	1.1	0.3	0.21	3	<0.5	0.5
B0053932	RC Chip	0.35	0.062	14	6	0.28	126	0.013	<20	0.86	0.027	0.21	11.2	0.01	1.1	0.3	0.20	3	<0.5	0.2
B0053933	RC Chip	0.38	0.066	15	7	0.27	272	0.011	<20	0.81	0.043	0.23	3.9	<0.01	1.0	0.2	0.25	3	<0.5	<0.2
B0053934	RC Chip	0.37	0.076	17	7	0.35	96	0.007	<20	0.99	0.024	0.24	2.1	<0.01	1.3	0.2	0.18	3	<0.5	0.3
B0053935	RC Chip	0.58	0.074	19	8	0.32	94	0.008	<20	0.87	0.025	0.20	2.0	<0.01	1.2	0.2	0.15	3	<0.5	<0.2
B0053936	RC Chip	0.35	0.071	14	7	0.26	101	0.007	<20	0.79	0.043	0.20	2.2	<0.01	1.1	0.2	0.14	3	<0.5	0.2
B0053937	RC Chip	0.63	0.073	12	9	0.38	81	0.012	<20	1.06	0.025	0.19	12.8	<0.01	1.6	0.3	0.06	3	<0.5	<0.2
B0053938	RC Chip	0.79	0.077	13	9	0.39	89	0.034	<20	1.05	0.029	0.20	1.8	<0.01	1.8	0.3	0.09	4	<0.5	<0.2
B0053939	RC Chip	0.80	0.071	10	11	0.46	73	0.055	<20	1.08	0.029	0.18	19.8	<0.01	1.5	0.2	<0.05	4	<0.5	<0.2
B0053940	RC Chip	0.85	0.071	12	8	0.39	79	0.016	<20	0.96	0.024	0.20	0.6	<0.01	1.7	0.2	0.14	3	<0.5	<0.2
B0053941	RC Chip	0.39	0.086	15	7	0.33	103	0.004	<20	0.94	0.018	0.22	0.5	<0.01	1.3	0.3	0.13	3	<0.5	<0.2
B0053942	RC Chip	0.61	0.069	15	7	0.26	97	0.004	<20	0.90	0.025	0.24	1.0	<0.01	1.4	0.2	0.18	3	<0.5	<0.2
B0053943	RC Chip	1.12	0.070	15	8	0.46	76	0.006	<20	1.10	0.024	0.22	0.9	<0.01	1.5	0.2	0.19	3	<0.5	<0.2
B0053944	RC Chip	0.61	0.068	11	8	0.39	97	0.045	<20	1.07	0.038	0.20	1.4	<0.01	1.7	0.2	0.70	4	<0.5	<0.2
B0053945	RC Chip	0.47	0.072	9	9	0.33	84	0.064	<20	0.84	0.036	0.17	2.5	<0.01	1.5	0.2	0.85	3	<0.5	0.3
B0053946	RC Chip	0.82	0.070	11	9	0.40	97	0.046	<20	0.99	0.031	0.17	1.9	<0.01	1.3	0.2	0.46	4	<0.5	0.3
B0053947	RC Chip	0.82	0.074	12	8	0.43	81	0.030	<20	0.97	0.029	0.18	1.2	<0.01	1.4	0.2	0.07	4	<0.5	<0.2
B0053948	RC Chip	0.97	0.069	11	8	0.47	72	0.009	<20	1.28	0.028	0.19	0.3	<0.01	1.4	0.2	0.19	4	<0.5	<0.2
B0053949	RC Chip	0.87	0.070	12	9	0.43	75	0.017	<20	1.30	0.036	0.16	0.5	<0.01	1.4	0.2	0.05	4	<0.5	<0.2
B0053950	RC Chip	0.94	0.065	11	8	0.32	68	0.019	<20	1.14	0.034	0.16	0.4	<0.01	1.4	0.2	0.24	3	<0.5	<0.2
B0053951	RC Chip	0.98	0.084	12	9	0.40	90	0.020	<20	1.25	0.038	0.18	0.4	<0.01	1.7	0.2	0.30	4	<0.5	<0.2
B0053952	RC Chip	0.84	0.069	12	11	0.55	85	0.035	<20	1.28	0.036	0.12	0.1	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
B0053953	RC Chip	1.01	0.072	16	12	0.61	132	0.042	<20	1.32	0.044	0.12	0.3	<0.01	2.5	0.1	0.09	5	<0.5	<0.2
B0053954	RC Chip	0.93	0.078	12	11	0.53	89	0.015	<20	1.20	0.036	0.12	0.2	<0.01	1.9	0.1	0.13	4	<0.5	<0.2
B0053955	RC Chip	0.88	0.074	12	13	0.43	100	0.014	<20	1.06	0.035	0.16	0.2	<0.01	2.0	0.1	0.07	4	<0.5	<0.2
B0053956	RC Chip	1.20	0.075	13	10	0.46	128	0.005	<20	1.49	0.038	0.20	0.5	<0.01	1.7	0.2	0.05	5	<0.5	<0.2
B0053957	RC Chip	0.94	0.072	13	12	0.44	104	0.008	<20	1.16	0.036	0.15	0.3	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2



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2200 HSBC Building
885 West Georgia St.
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Project: Rude Creek
Report Date: February 23, 2021

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CERTIFICATE OF ANALYSIS

WHI20000525.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
B0053958	RC Chip	2.11	0.032	1.9	5.4	20.8	29	0.4	5.0	18.5	556	2.96	80.8	6.4	15.5	31.7	107	<0.1	1.2	3.6	17
B0053959	RC Chip	2.03	0.017	1.7	18.2	26.5	33	0.2	4.3	4.4	554	2.30	12.7	2.9	3.9	21.4	45	<0.1	2.1	0.9	19
B0053960	RC Chip	2.13	0.008	1.9	16.1	13.3	30	<0.1	4.1	5.3	569	2.30	10.7	3.2	3.7	28.1	34	<0.1	2.1	0.4	21
B0053961	RC Chip	2.77	0.019	1.6	31.7	17.7	30	0.2	4.1	4.0	507	2.22	9.4	2.6	6.8	16.9	41	0.2	1.8	0.5	20
B0053962	RC Chip	2.33	0.006	1.7	18.7	15.2	29	0.1	4.2	3.4	482	1.94	6.7	2.7	2.3	16.5	86	<0.1	1.0	0.7	20
B0053963	RC Chip	2.00	0.006	1.8	7.0	9.3	28	0.1	4.8	6.8	604	2.28	10.8	2.2	2.8	16.8	109	<0.1	2.1	0.4	21
B0053964	RC Chip	2.28	0.007	1.9	7.5	15.8	28	0.1	3.8	5.7	624	1.97	7.1	3.0	1.9	16.8	84	<0.1	1.6	0.3	19
B0053965	RC Chip	2.27	0.006	2.2	4.6	11.7	24	<0.1	4.2	5.7	564	2.06	7.7	2.7	1.0	15.3	86	0.2	1.6	0.2	25
B0053966	RC Chip	2.22	0.005	1.9	6.4	13.0	26	0.2	4.2	6.0	538	2.14	9.3	2.3	1.9	15.5	90	0.2	1.7	0.3	25
B0053967	RC Chip	2.65	0.006	4.4	2.3	7.0	28	<0.1	4.3	7.1	484	2.13	10.8	1.5	1.0	13.9	33	<0.1	2.2	0.1	20
B0053968	RC Chip	2.05	<0.005	2.2	3.9	11.2	23	<0.1	4.0	8.3	431	1.98	10.4	1.9	1.0	14.4	34	0.1	1.8	0.2	20
B0053969	RC Chip	2.68	<0.005	2.1	6.1	11.0	23	<0.1	4.2	4.3	423	1.94	7.4	2.8	0.8	16.3	58	0.2	1.8	0.2	22
B0053970	RC Chip	2.69	0.010	2.8	4.8	10.2	25	<0.1	4.5	9.2	438	2.02	14.7	2.3	2.4	13.9	54	0.1	2.0	0.2	22
B0053971	RC Chip	2.82	0.006	2.2	6.3	10.3	24	<0.1	4.3	5.5	463	2.17	7.4	2.4	2.0	14.4	68	0.1	1.7	0.1	28
B0053972	RC Chip	2.54	0.007	2.9	12.6	10.3	26	<0.1	4.3	6.6	434	2.03	9.8	2.6	1.7	13.1	51	0.2	1.6	0.2	22
B0053973	RC Chip	2.97	0.021	2.5	9.6	17.0	27	0.4	4.6	11.2	401	1.98	13.0	3.9	14.6	25.4	63	0.2	2.0	3.1	21
B0053974	RC Chip	2.15	0.074	2.7	6.9	12.5	30	0.1	4.5	12.0	449	2.13	13.8	2.0	27.0	15.5	77	0.3	1.6	0.4	27
B0053975	RC Chip	2.46	0.008	2.7	4.8	13.2	30	<0.1	4.5	6.5	446	2.30	10.6	3.3	2.3	16.6	99	0.1	1.4	0.2	35



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
B0053958	RC Chip	1.32	0.082	20	9	0.45	98	0.003	<20	1.21	0.023	0.22	0.6	<0.01	1.8	0.2	1.29	4	<0.5	0.3
B0053959	RC Chip	0.95	0.073	12	11	0.46	88	0.018	<20	1.05	0.031	0.19	0.5	<0.01	1.9	0.2	0.08	4	<0.5	<0.2
B0053960	RC Chip	0.90	0.071	11	12	0.49	78	0.022	<20	1.15	0.034	0.18	4.0	<0.01	1.8	0.2	<0.05	4	<0.5	<0.2
B0053961	RC Chip	0.88	0.079	11	10	0.47	85	0.016	<20	1.19	0.033	0.19	0.1	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
B0053962	RC Chip	0.87	0.074	14	10	0.46	82	0.003	<20	1.15	0.033	0.15	<0.1	<0.01	1.5	0.2	<0.05	4	<0.5	<0.2
B0053963	RC Chip	1.10	0.081	13	11	0.51	90	0.017	<20	1.23	0.032	0.20	0.4	<0.01	2.1	0.2	<0.05	4	<0.5	<0.2
B0053964	RC Chip	1.38	0.070	15	11	0.40	71	0.014	<20	1.25	0.037	0.20	0.4	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
B0053965	RC Chip	0.88	0.070	10	13	0.43	79	0.046	<20	1.10	0.042	0.13	1.1	<0.01	1.5	0.1	<0.05	4	<0.5	<0.2
B0053966	RC Chip	0.72	0.070	9	11	0.45	83	0.065	<20	1.16	0.039	0.12	1.3	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
B0053967	RC Chip	0.71	0.069	8	12	0.44	74	0.057	<20	1.02	0.031	0.14	2.0	<0.01	1.4	0.1	<0.05	4	<0.5	<0.2
B0053968	RC Chip	0.62	0.073	8	13	0.41	74	0.060	<20	0.94	0.033	0.13	2.2	<0.01	1.4	0.1	<0.05	3	<0.5	<0.2
B0053969	RC Chip	0.59	0.076	9	13	0.41	77	0.063	<20	0.98	0.038	0.14	2.1	<0.01	1.5	0.1	<0.05	3	<0.5	<0.2
B0053970	RC Chip	0.64	0.078	8	13	0.43	75	0.062	<20	1.01	0.036	0.14	2.3	<0.01	1.5	0.1	0.06	4	<0.5	<0.2
B0053971	RC Chip	0.52	0.065	9	15	0.46	56	0.074	<20	1.02	0.041	0.11	2.2	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
B0053972	RC Chip	0.53	0.080	7	11	0.44	65	0.063	<20	1.01	0.039	0.14	1.9	<0.01	1.4	0.1	<0.05	4	<0.5	<0.2
B0053973	RC Chip	0.56	0.077	7	14	0.42	71	0.070	<20	0.98	0.040	0.14	3.2	<0.01	1.7	0.1	0.13	4	<0.5	<0.2
B0053974	RC Chip	0.60	0.071	8	16	0.48	56	0.071	<20	1.03	0.043	0.11	2.9	<0.01	1.5	0.1	0.11	4	<0.5	<0.2
B0053975	RC Chip	0.61	0.077	10	16	0.50	56	0.068	<20	1.14	0.056	0.09	2.1	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI20000525.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0054421 RC Chip	1.37	0.008	0.9	13.3	8.5	24	0.1	3.6	6.6	388	1.81	13.3	2.5	3.0	15.8	174	0.1	1.6	0.4	21	
REP B0054421 QC			0.9	12.9	8.2	24	<0.1	3.5	6.9	392	1.84	13.5	2.1	2.4	15.8	170	<0.1	1.8	0.4	20	
B0054454 RC Chip	2.21	0.006	1.8	13.3	6.9	32	<0.1	4.3	7.9	351	2.63	12.2	3.1	2.9	15.5	55	0.2	1.0	0.5	41	
REP B0054454 QC			1.8	12.7	6.5	32	<0.1	4.5	7.8	351	2.63	11.8	2.9	3.0	14.7	56	0.2	1.0	0.5	42	
B0054456 RC Chip	2.97	0.009	1.6	2.6	6.5	29	<0.1	3.9	5.3	393	2.17	25.4	3.1	4.0	16.2	40	<0.1	0.5	1.1	31	
REP B0054456 QC		0.006																			
B0054462 RC Chip	4.48	0.010	1.0	17.7	7.4	27	0.1	4.2	5.7	334	2.57	9.8	2.4	16.7	14.6	131	<0.1	1.0	0.6	43	
REP B0054462 QC		0.006																			
B0054489 RC Chip	2.12	0.066	2.3	28.8	6.9	27	0.1	5.0	9.1	306	2.69	10.9	5.8	38.7	22.0	66	<0.1	0.6	2.5	42	
REP B0054489 QC			2.2	28.2	6.5	25	0.1	4.5	9.0	307	2.71	10.6	5.2	16.0	20.0	61	<0.1	0.6	2.4	41	
B0054493 RC Chip	4.24	0.005	2.4	4.8	7.7	23	<0.1	3.8	3.7	263	1.88	5.4	5.9	2.0	16.3	28	<0.1	0.7	0.7	26	
REP B0054493 QC		0.005																			
B0053949 RC Chip	1.81	0.007	1.5	10.9	9.7	30	<0.1	4.3	6.4	490	2.16	16.9	2.5	3.5	15.3	63	<0.1	1.5	0.3	22	
REP B0053949 QC		0.009																			
B0053956 RC Chip	2.14	0.008	1.6	36.9	42.1	58	0.3	4.9	5.6	597	2.31	14.6	3.6	3.8	12.8	203	2.2	1.6	0.9	23	
REP B0053956 QC			1.6	37.2	41.9	59	0.3	4.8	5.9	595	2.30	14.5	3.6	2.2	12.2	197	2.4	1.5	1.0	23	
Core Reject Duplicates																					
B0054415 RC Chip	1.47	0.006	0.9	7.9	9.9	35	<0.1	4.6	6.8	566	2.18	12.4	2.2	1.0	14.3	41	0.2	2.6	0.2	25	
DUP B0054415 QC		<0.005	1.0	8.0	10.5	36	<0.1	4.7	6.9	589	2.25	13.1	2.3	0.9	15.1	43	0.2	2.8	0.2	26	
B0054448 RC Chip	2.21	0.037	1.7	11.6	6.6	26	<0.1	4.1	6.0	264	2.41	12.2	2.4	22.8	13.4	78	0.1	1.1	1.0	37	
DUP B0054448 QC		0.033	1.8	12.6	7.0	26	0.2	4.5	6.2	264	2.44	12.4	2.5	361.0	14.3	80	<0.1	1.3	1.2	36	
B0054482 RC Chip	2.28	0.008	2.3	20.1	6.4	27	0.2	4.7	27.1	290	2.52	9.6	4.2	5.1	13.7	45	<0.1	0.9	2.3	40	
DUP B0054482 QC		0.011	2.3	18.1	7.5	26	0.2	4.7	28.5	292	2.53	9.3	3.8	4.2	14.0	47	<0.1	1.0	2.6	41	
B0053948 RC Chip	1.81	0.023	1.9	9.9	8.3	33	0.1	4.7	10.4	584	2.34	45.3	3.7	8.8	17.1	48	0.2	1.3	0.6	17	
DUP B0053948 QC		0.026	1.7	9.8	8.0	33	0.1	4.6	9.6	585	2.32	44.4	3.7	4.7	16.6	45	0.2	1.2	0.5	17	
Reference Materials																					
STD BVGE001 Standard			10.9	4299.8	185.8	1724	2.5	158.6	24.1	705	3.57	117.6	3.8	211.0	17.8	52	6.7	3.0	23.6	71	
STD BVGE001 Standard			9.3	4362.4	173.9	1721	2.5	154.2	24.0	681	3.67	118.0	3.6	196.2	15.3	55	6.1	2.8	24.3	71	



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QUALITY CONTROL REPORT

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
B0054421	RC Chip	1.02	0.067	15	6	0.34	117	0.019	<20	1.54	0.048	0.19	0.1	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
REP B0054421	QC	1.02	0.066	15	6	0.34	113	0.019	<20	1.54	0.046	0.19	0.1	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
B0054454	RC Chip	0.80	0.072	14	15	0.61	73	0.100	<20	1.11	0.055	0.14	18.6	<0.01	2.7	0.2	0.19	5	<0.5	<0.2
REP B0054454	QC	0.80	0.069	14	15	0.61	72	0.097	<20	1.10	0.056	0.14	16.1	<0.01	2.7	0.2	0.19	5	<0.5	<0.2
B0054456	RC Chip	1.37	0.071	18	11	0.47	82	0.016	<20	1.07	0.045	0.23	2.6	<0.01	2.9	0.2	0.36	5	<0.5	0.4
REP B0054456	QC																			
B0054462	RC Chip	0.88	0.070	16	11	0.60	124	0.108	<20	1.32	0.062	0.21	1.8	<0.01	2.8	0.3	0.07	5	<0.5	<0.2
REP B0054462	QC																			
B0054489	RC Chip	0.76	0.062	21	17	0.62	241	0.115	<20	1.12	0.049	0.33	5.6	<0.01	3.5	0.5	0.38	5	<0.5	<0.2
REP B0054489	QC	0.75	0.060	20	17	0.63	230	0.109	<20	1.12	0.049	0.33	4.8	<0.01	3.1	0.5	0.42	5	<0.5	<0.2
B0054493	RC Chip	0.64	0.043	8	16	0.46	43	0.055	<20	0.86	0.057	0.12	2.6	<0.01	2.0	0.2	0.21	4	<0.5	0.2
REP B0054493	QC																			
B0053949	RC Chip	0.87	0.070	12	9	0.43	75	0.017	<20	1.30	0.036	0.16	0.5	<0.01	1.4	0.2	0.05	4	<0.5	<0.2
REP B0053949	QC																			
B0053956	RC Chip	1.20	0.075	13	10	0.46	128	0.005	<20	1.49	0.038	0.20	0.5	<0.01	1.7	0.2	0.05	5	<0.5	<0.2
REP B0053956	QC	1.19	0.079	14	10	0.46	132	0.005	<20	1.49	0.037	0.20	0.5	<0.01	1.6	0.2	0.05	5	<0.5	<0.2
Core Reject Duplicates																				
B0054415	RC Chip	0.72	0.071	12	9	0.46	85	0.046	<20	1.42	0.041	0.18	1.5	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
DUP B0054415	QC	0.75	0.074	13	9	0.47	92	0.049	<20	1.47	0.044	0.18	2.3	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
B0054448	RC Chip	0.74	0.073	12	13	0.52	79	0.087	<20	1.15	0.061	0.16	1.3	<0.01	2.6	0.2	0.22	5	<0.5	<0.2
DUP B0054448	QC	0.74	0.071	12	14	0.51	81	0.087	<20	1.13	0.057	0.16	1.5	<0.01	2.6	0.2	0.25	5	<0.5	<0.2
B0054482	RC Chip	0.84	0.076	12	13	0.54	93	0.098	<20	1.06	0.056	0.18	55.4	<0.01	2.9	0.3	0.56	5	<0.5	0.7
DUP B0054482	QC	0.84	0.071	13	13	0.53	90	0.100	<20	1.07	0.060	0.18	72.3	<0.01	3.0	0.3	0.54	5	<0.5	0.6
B0053948	RC Chip	0.97	0.069	11	8	0.47	72	0.009	<20	1.28	0.028	0.19	0.3	<0.01	1.4	0.2	0.19	4	<0.5	<0.2
DUP B0053948	QC	0.97	0.067	10	8	0.48	65	0.008	<20	1.27	0.027	0.18	0.3	0.01	1.4	0.2	0.19	4	<0.5	<0.2
Reference Materials																				
STD BVGE001	Standard	1.28	0.073	25	164	1.27	340	0.232	<20	2.19	0.179	0.84	3.9	0.10	5.7	0.6	0.65	7	4.5	0.9
STD BVGE001	Standard	1.28	0.076	26	158	1.27	329	0.236	<20	2.15	0.180	0.93	3.6	0.09	5.8	0.6	0.67	7	5.0	0.9



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: February 23, 2021

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QUALITY CONTROL REPORT

WHI20000525.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
STD DS11	Standard			13.1	142.6	138.7	348	1.7	74.3	12.3	938	2.90	44.1	2.7	75.0	9.3	63	2.5	8.9	11.7	43	
STD DS11	Standard			15.0	133.2	137.9	343	1.6	79.2	13.0	1005	3.01	44.4	2.6	52.8	9.4	62	2.4	7.8	11.3	47	
STD DS11	Standard			14.5	142.7	127.2	331	1.5	78.1	13.2	979	2.97	40.0	2.2	85.3	6.7	62	2.1	7.8	10.4	47	
STD OREAS262	Standard			0.6	109.2	55.2	146	0.5	65.3	25.0	510	3.24	36.0	1.2	74.5	10.8	33	0.6	3.7	1.0	20	
STD OREAS262	Standard			0.7	106.8	53.5	139	0.4	62.7	26.7	525	3.15	36.2	1.2	72.3	10.7	34	0.6	4.2	0.9	20	
STD OREAS232	Standard		0.962																			
STD OREAS262	Standard			0.7	110.3	53.8	149	0.5	61.5	26.2	535	3.22	38.1	1.2	71.1	10.6	34	0.6	3.7	1.0	21	
STD OREAS262	Standard			0.6	109.1	53.5	153	0.5	62.3	26.4	526	3.31	36.3	1.1	63.3	9.6	35	0.6	3.0	1.0	22	
STD OREAS262	Standard			0.7	115.5	52.8	147	0.5	62.9	27.0	543	3.24	34.9	1.1	74.5	8.2	35	0.6	4.5	0.9	21	
STD OXB130	Standard		0.123																			
STD OXB130	Standard		0.127																			
STD OXB130	Standard		0.128																			
STD OXB130	Standard		0.131																			
STD OXG141	Standard		0.934																			
STD OXG141	Standard		0.975																			
STD OXG141	Standard		0.984																			
STD OXN155	Standard		7.753																			
STD OXN155	Standard		7.788																			
STD OXN155	Standard		7.796																			
STD OXN155	Standard		8.068																			
STD OXG141 Expected			0.93																			
STD OXN155 Expected			7.762																			
STD OXB130 Expected			0.125																			
STD OREAS232 Expected			0.902																			
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			



Bureau Veritas Commodities Canada Ltd.

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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
STD DS11	Standard	0.97	0.071	17	55	0.77	429	0.088	<20	1.01	0.062	0.37	3.5	0.26	2.9	4.9	0.25	5	2.2	4.9
STD DS11	Standard	1.02	0.067	18	60	0.82	417	0.088	<20	1.09	0.068	0.38	3.1	0.23	3.2	5.1	0.27	5	2.4	4.5
STD DS11	Standard	1.01	0.066	16	57	0.82	360	0.087	<20	1.14	0.072	0.39	2.4	0.26	3.0	4.6	0.27	5	2.1	4.4
STD OREAS262	Standard	2.77	0.038	14	36	1.15	245	0.003	<20	1.10	0.065	0.29	0.4	0.15	3.0	0.5	0.26	4	0.5	0.3
STD OREAS262	Standard	2.95	0.038	16	38	1.15	253	0.003	<20	1.16	0.066	0.28	0.2	0.15	3.1	0.4	0.24	4	0.6	0.2
STD OREAS232	Standard																			
STD OREAS262	Standard	3.04	0.040	16	41	1.18	261	0.003	<20	1.22	0.067	0.29	0.1	0.15	3.3	0.4	0.25	4	<0.5	0.2
STD OREAS262	Standard	2.84	0.041	17	41	1.18	250	0.003	<20	1.24	0.069	0.34	<0.1	0.15	3.4	0.4	0.25	4	0.8	<0.2
STD OREAS262	Standard	3.05	0.039	14	41	1.19	234	0.003	<20	1.22	0.067	0.30	0.1	0.14	3.1	0.5	0.26	4	0.6	0.3
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXN155	Standard																			
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
STD OREAS232 Expected																				
STD BVGEO01 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
BLK	Blank																			
BLK	Blank																			



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QUALITY CONTROL REPORT

WHI20000525.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
BLK	Blank		0.006																			
BLK	Blank		0.010																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.3	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.3	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.5	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	0.2	<1	<0.1	<0.1	<0.1	<1	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
Prep Wash																						
ROCK-WHI	Prep Blank		<0.005	0.9	1.6	2.4	26	<0.1	1.0	3.0	380	1.69	1.6	0.4	0.8	2.3	24	<0.1	0.2	<0.1	20	
ROCK-WHI	Prep Blank		<0.005	0.8	1.4	2.1	29	<0.1	0.8	3.2	394	1.66	1.5	0.4	<0.5	2.7	24	<0.1	0.2	<0.1	19	



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																				
ROCK-WHI	Prep Blank	0.58	0.038	7	2	0.38	69	0.075	<20	0.85	0.083	0.09	0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	0.57	0.037	7	2	0.39	66	0.074	<20	0.84	0.082	0.09	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
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Client: **0890763 B.C. Ltd**
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: October 22, 2020
Report Date: January 14, 2021
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CERTIFICATE OF ANALYSIS

WHI20000526.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 73

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	73	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	73	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	73	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	73	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI20000526.1

Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B0053984	RC Chip	1.94	0.017	2.6	27.1	13.4	31	0.3	5.0	9.7	590	2.30	36.9	2.7	11.6	16.4	59	0.2	1.4	0.6	24
B0053985	RC Chip	2.46	0.009	2.3	7.5	13.1	31	<0.1	4.5	7.7	537	2.24	15.0	2.3	12.9	17.0	27	0.1	1.7	0.1	26
B0053986	RC Chip	2.53	0.007	7.2	8.7	6.9	28	0.1	4.7	7.2	500	2.50	9.5	3.3	4.8	14.3	46	<0.1	1.3	0.1	39
B0053987	RC Chip	2.33	0.005	4.6	6.7	11.5	32	<0.1	5.0	8.1	525	2.40	12.2	2.2	0.7	14.6	67	0.1	1.5	<0.1	34
B0053988	RC Chip	2.50	0.005	3.3	11.1	6.1	30	<0.1	4.7	6.7	483	2.72	8.6	4.3	2.4	15.7	107	<0.1	1.2	0.3	46
B0053989	RC Chip	2.70	0.009	2.2	14.1	7.3	25	0.2	4.9	12.3	470	2.45	14.7	3.1	2.3	17.1	54	<0.1	1.1	0.7	29
B0053990	RC Chip	2.20	0.006	2.0	6.7	8.0	27	<0.1	3.7	5.2	489	2.16	6.3	3.6	2.4	16.1	51	0.2	0.6	0.3	23
B0053991	RC Chip	2.77	0.008	1.8	33.5	7.5	30	0.2	4.7	8.0	487	2.45	6.8	3.1	2.0	16.9	58	<0.1	0.7	0.6	25
B0053992	RC Chip	1.98	0.008	2.1	26.6	7.8	30	0.2	4.9	7.0	478	2.46	7.3	3.1	0.9	15.6	62	0.1	0.9	0.8	27
B0053501	RC Chip	1.90	0.074	5.0	31.7	19.6	30	0.9	5.7	13.9	438	2.30	88.8	4.1	94.1	8.2	26	0.1	12.6	9.3	7
B0053502	RC Chip	1.92	0.072	2.2	84.8	16.2	40	1.7	4.4	12.6	501	2.38	44.5	4.2	38.5	13.2	28	<0.1	3.0	29.1	17
B0053503	RC Chip	1.31	0.035	1.4	98.5	8.1	43	0.5	4.0	5.6	522	2.57	35.3	3.4	20.2	13.8	25	<0.1	1.4	29.7	21
B0053504	RC Chip	1.89	0.057	1.3	172.0	6.7	53	1.0	5.4	6.5	559	2.77	54.3	3.4	20.3	12.7	30	<0.1	2.3	12.3	25
B0053505	RC Chip	3.14	0.019	1.1	57.6	15.9	55	0.7	4.5	8.2	506	2.54	81.3	3.0	13.0	14.8	29	0.3	2.8	2.9	31
B0053506	RC Chip	2.66	0.012	0.9	15.2	13.6	63	0.3	4.5	5.2	533	2.77	47.1	3.4	5.7	14.7	46	0.2	2.7	1.6	31
B0053507	RC Chip	2.21	0.024	1.2	44.1	14.0	54	0.6	4.7	4.6	504	2.56	25.8	2.7	6.8	13.6	25	<0.1	1.9	3.0	32
B0053508	RC Chip	2.38	0.039	1.0	26.3	9.7	63	0.5	4.2	7.9	576	3.26	47.1	4.1	14.0	14.6	33	0.2	2.1	4.2	34
B0053509	RC Chip	2.13	0.021	1.2	43.6	8.9	54	0.4	4.6	6.1	530	2.94	53.6	4.3	3.8	15.1	44	<0.1	1.0	2.1	50
B0053510	RC Chip	2.97	0.038	1.4	54.2	13.6	58	1.0	4.0	13.5	526	3.21	52.2	3.3	17.4	15.4	33	0.2	1.4	9.2	36
B0053511	RC Chip	3.76	0.009	1.5	31.7	10.6	55	0.3	4.2	3.8	502	2.58	16.1	3.2	3.1	15.1	48	<0.1	2.0	1.8	39
B0053512	RC Chip	3.79	0.048	3.7	27.7	22.1	62	1.1	4.5	14.2	606	2.84	79.5	3.0	10.9	13.5	30	0.6	1.8	10.4	32
B0053513	RC Chip	3.19	0.036	1.4	16.8	11.4	54	0.4	5.0	10.6	614	2.82	44.7	3.2	11.8	13.2	99	<0.1	1.4	2.3	32
B0053514	RC Chip	3.43	0.007	1.6	9.1	6.2	55	0.1	4.4	2.5	542	2.45	6.8	2.5	0.7	15.6	35	<0.1	2.7	0.6	33
B0053515	RC Chip	2.94	<0.005	1.3	3.8	7.1	57	<0.1	4.3	2.3	524	2.45	19.3	2.1	<0.5	14.7	30	<0.1	2.7	0.4	30
B0053516	RC Chip	3.37	0.006	1.2	4.2	8.1	55	<0.1	4.2	3.2	449	2.07	35.4	2.5	3.1	16.0	32	0.1	3.3	0.4	28
B0053517	RC Chip	3.24	0.010	1.1	18.1	11.5	66	0.2	5.1	8.6	569	2.67	47.7	2.9	4.3	14.3	40	<0.1	3.6	0.6	31
B0053518	RC Chip	2.68	0.011	1.3	12.2	12.3	52	0.3	4.0	7.7	492	2.10	19.1	2.5	3.0	13.2	28	0.2	3.7	1.9	26
B0053519	RC Chip	3.46	0.009	1.5	9.5	5.2	40	0.1	4.4	6.2	452	2.08	22.9	4.2	3.8	14.0	23	<0.1	4.9	0.5	20
B0053520	RC Chip	3.55	0.011	1.3	11.3	3.6	39	0.1	4.1	5.4	462	1.98	20.2	4.2	5.7	14.5	29	<0.1	3.2	1.1	20
B0053521	RC Chip	3.23	0.028	1.4	42.1	8.4	40	0.7	4.4	9.5	571	2.79	62.0	7.4	23.9	15.7	43	0.1	3.0	5.2	25



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Project: Rude Creek
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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0053984	RC Chip	0.75	0.070	12	13	0.47	69	0.037	<20	1.16	0.031	0.16	1.0	<0.01	1.6	0.1	0.24	4	<0.5	<0.2
B0053985	RC Chip	0.64	0.069	9	15	0.47	48	0.059	<20	1.03	0.034	0.11	2.5	<0.01	1.4	<0.1	0.05	4	<0.5	<0.2
B0053986	RC Chip	0.53	0.067	11	21	0.49	38	0.063	<20	1.05	0.050	0.08	2.6	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
B0053987	RC Chip	0.73	0.072	10	21	0.51	46	0.069	<20	1.18	0.048	0.10	2.7	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
B0053988	RC Chip	0.63	0.068	20	22	0.58	126	0.101	<20	1.11	0.052	0.15	3.3	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
B0053989	RC Chip	0.92	0.072	13	14	0.47	68	0.052	<20	1.14	0.036	0.17	1.4	<0.01	2.3	0.2	0.21	4	<0.5	<0.2
B0053990	RC Chip	1.39	0.075	17	12	0.42	54	0.010	<20	1.26	0.032	0.19	0.6	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2
B0053991	RC Chip	1.17	0.077	18	12	0.46	64	0.014	<20	1.24	0.030	0.18	2.2	<0.01	2.5	0.2	<0.05	4	<0.5	<0.2
B0053992	RC Chip	1.11	0.077	16	12	0.48	65	0.025	<20	1.23	0.034	0.18	1.0	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
B0053501	RC Chip	0.43	0.055	24	10	0.30	91	0.006	<20	0.80	0.035	0.23	1.6	<0.01	1.0	0.2	0.13	3	<0.5	0.3
B0053502	RC Chip	0.60	0.070	24	11	0.43	100	0.005	<20	1.02	0.028	0.23	2.1	<0.01	1.4	0.2	0.20	4	<0.5	0.3
B0053503	RC Chip	0.91	0.076	15	9	0.59	59	0.010	<20	1.10	0.026	0.19	3.0	<0.01	2.0	0.2	0.43	5	<0.5	<0.2
B0053504	RC Chip	1.37	0.065	11	9	0.58	47	0.049	<20	1.13	0.028	0.19	3.9	<0.01	2.2	0.3	0.71	5	<0.5	<0.2
B0053505	RC Chip	1.06	0.073	11	10	0.59	61	0.073	<20	1.18	0.035	0.15	12.5	<0.01	2.5	0.2	0.27	6	<0.5	<0.2
B0053506	RC Chip	0.79	0.075	12	9	0.77	97	0.074	<20	1.45	0.033	0.20	2.9	<0.01	2.4	0.3	0.15	6	<0.5	<0.2
B0053507	RC Chip	0.78	0.069	12	10	0.65	49	0.075	<20	1.24	0.028	0.14	3.5	<0.01	2.4	0.2	0.12	5	<0.5	<0.2
B0053508	RC Chip	0.85	0.064	10	9	0.88	65	0.072	<20	1.46	0.031	0.16	3.3	<0.01	2.1	0.2	0.57	6	<0.5	<0.2
B0053509	RC Chip	0.69	0.072	24	12	0.82	185	0.130	<20	1.31	0.056	0.27	2.8	<0.01	4.0	0.4	0.26	5	<0.5	<0.2
B0053510	RC Chip	0.88	0.075	14	11	0.75	51	0.083	<20	1.25	0.037	0.14	3.5	<0.01	2.4	0.3	0.86	6	<0.5	<0.2
B0053511	RC Chip	0.87	0.071	19	11	0.75	84	0.104	<20	1.24	0.046	0.16	3.3	<0.01	2.7	0.3	0.14	6	<0.5	<0.2
B0053512	RC Chip	1.17	0.067	10	9	0.72	53	0.053	<20	1.33	0.028	0.14	2.1	<0.01	2.2	0.2	0.39	6	<0.5	<0.2
B0053513	RC Chip	1.37	0.073	10	10	0.74	89	0.061	<20	1.38	0.030	0.16	3.2	<0.01	2.5	0.2	0.35	5	<0.5	<0.2
B0053514	RC Chip	1.02	0.071	14	12	0.70	49	0.082	<20	1.24	0.038	0.13	2.2	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
B0053515	RC Chip	0.89	0.071	13	11	0.76	46	0.074	<20	1.24	0.036	0.12	3.0	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2
B0053516	RC Chip	0.81	0.073	13	10	0.70	50	0.081	<20	1.14	0.038	0.13	2.5	<0.01	1.7	0.2	<0.05	5	<0.5	<0.2
B0053517	RC Chip	0.98	0.068	11	9	1.01	49	0.077	<20	1.49	0.039	0.12	3.1	<0.01	1.8	0.2	0.15	6	<0.5	<0.2
B0053518	RC Chip	1.02	0.072	10	9	0.75	47	0.074	<20	1.18	0.035	0.12	2.8	<0.01	1.8	0.2	0.11	5	<0.5	<0.2
B0053519	RC Chip	1.11	0.078	12	8	0.64	73	0.033	<20	1.25	0.023	0.26	2.8	<0.01	1.6	0.3	0.11	4	<0.5	<0.2
B0053520	RC Chip	1.42	0.078	14	8	0.48	63	0.034	<20	1.13	0.027	0.24	3.8	<0.01	2.1	0.3	0.11	4	<0.5	<0.2
B0053521	RC Chip	1.68	0.065	15	9	0.53	61	0.017	<20	1.30	0.034	0.24	3.5	<0.01	2.8	0.3	0.41	5	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
B0053522	RC Chip	2.72	0.050	1.8	42.2	5.9	44	0.6	4.0	4.5	621	2.75	21.5	5.0	18.6	13.7	38	<0.1	1.4	3.2	17
B0053523	RC Chip	2.74	0.048	14.3	52.0	5.6	47	0.9	4.8	15.7	591	2.84	29.3	5.1	31.2	13.7	32	<0.1	1.4	7.5	20
B0053524	RC Chip	3.18	0.037	8.1	65.7	5.2	45	0.7	4.4	9.5	502	2.31	27.4	4.9	43.4	14.8	97	<0.1	2.4	14.9	24
B0053525	RC Chip	3.67	0.594	2.3	134.7	13.8	47	0.9	4.8	12.7	548	2.66	23.0	5.7	105.0	15.4	93	0.4	2.3	37.3	30
B0053526	RC Chip	2.47	0.114	1.5	81.4	5.9	47	0.9	4.3	10.7	666	2.86	22.5	5.6	68.8	13.9	42	<0.1	1.8	18.6	26
B0053527	RC Chip	2.71	0.026	1.3	80.2	8.5	50	0.9	4.3	6.2	600	2.66	20.5	4.4	5.9	14.8	55	<0.1	2.5	9.5	29
B0053528	RC Chip	2.29	0.019	5.5	18.0	11.1	61	0.2	4.9	5.7	466	2.37	66.3	3.3	5.8	15.4	30	0.2	2.9	1.2	31
B0053529	RC Chip	2.72	0.047	2.0	9.1	8.7	46	0.2	4.3	4.6	460	2.26	39.0	3.2	6.3	13.7	36	<0.1	2.5	0.9	30
B0053530	RC Chip	3.08	0.020	1.5	11.6	6.5	42	0.1	4.2	5.6	456	2.43	19.6	3.7	2.3	14.5	30	<0.1	1.4	0.5	38
B0053531	RC Chip	2.99	0.026	2.1	14.5	9.0	46	0.2	4.7	13.1	533	2.66	42.2	4.2	68.2	13.3	28	0.2	2.7	1.3	30
B0053532	RC Chip	3.05	0.008	1.8	15.8	6.8	48	0.2	4.9	7.5	542	2.57	13.7	3.3	4.4	14.1	28	<0.1	1.5	1.4	39
B0053533	RC Chip	2.99	0.005	1.9	8.9	6.2	47	0.2	4.9	5.4	519	2.52	10.2	4.8	2.4	14.7	67	<0.1	1.6	1.3	35
B0053534	RC Chip	3.11	0.006	1.7	6.6	5.3	48	0.1	4.7	6.3	515	2.61	12.2	3.6	2.4	13.6	41	<0.1	1.6	0.5	40
B0053535	RC Chip	3.03	0.008	2.2	9.0	6.8	49	0.2	4.9	9.8	555	2.77	15.4	3.7	3.8	15.2	28	0.1	1.6	0.7	41
B0053536	RC Chip	3.11	0.011	2.0	13.3	9.4	43	0.2	4.4	9.8	516	2.54	44.1	4.1	6.4	15.1	28	0.1	1.7	0.6	39
B0053537	RC Chip	2.68	0.027	1.9	21.2	11.5	44	0.3	4.3	9.9	490	2.48	73.9	3.9	71.7	13.0	38	0.2	1.9	0.8	38
B0053538	RC Chip	2.83	0.012	2.0	14.9	10.7	46	0.2	4.8	5.2	475	2.24	62.1	3.6	3.1	13.6	64	0.3	2.2	0.3	31
B0053539	RC Chip	2.60	0.036	2.2	15.3	11.9	43	0.3	4.5	6.8	476	2.32	44.5	3.6	9.8	13.8	94	0.2	1.9	0.6	34
B0053540	RC Chip	2.86	0.027	2.0	21.7	11.4	43	0.4	4.8	7.9	458	2.48	54.3	3.3	11.7	14.2	28	0.2	2.4	0.9	38
B0053541	RC Chip	2.57	0.029	1.6	11.1	10.7	41	0.3	4.4	5.8	482	2.38	43.8	3.2	11.5	13.3	51	0.2	2.9	1.0	36
B0053542	RC Chip	2.92	0.007	1.6	23.6	7.9	42	0.4	4.2	2.8	485	2.06	14.7	3.5	3.4	12.7	80	0.2	2.5	1.6	34
B0053543	RC Chip	1.77	0.011	2.2	13.7	6.9	48	0.2	4.6	4.0	482	2.15	17.2	3.5	6.8	14.0	85	0.2	2.2	0.8	26
B0053544	RC Chip	1.91	0.061	1.7	44.2	8.9	42	0.5	4.1	8.3	459	2.08	24.5	3.4	23.4	13.9	136	0.2	1.5	2.8	26
B0053545	RC Chip	2.11	0.048	1.9	35.2	9.2	45	0.5	4.5	9.1	446	2.23	27.7	3.1	33.7	13.9	71	0.2	1.7	2.8	29
B0053546	RC Chip	2.66	0.056	1.8	60.0	10.5	44	0.9	4.8	6.5	472	2.32	22.3	3.1	13.2	14.2	79	0.2	1.7	4.0	31
B0053547	RC Chip	3.35	0.032	2.5	69.7	9.3	43	0.7	4.3	5.9	474	2.33	16.9	2.9	8.2	13.7	61	0.1	1.6	3.9	32
B0053548	RC Chip	2.63	0.037	21.2	16.4	5.5	50	0.2	4.4	6.9	533	2.71	27.4	4.9	17.9	14.1	38	<0.1	1.7	5.4	34
B0053549	RC Chip	1.45	0.064	4.1	8.5	11.3	49	0.4	5.4	10.7	513	2.63	34.3	4.2	20.4	13.9	25	0.2	2.2	10.2	33
B0053550	RC Chip	1.57	0.074	2.6	37.1	12.7	50	0.8	5.1	6.6	540	2.52	31.6	4.1	63.1	14.3	21	0.2	3.1	12.7	31
B0053551	RC Chip	1.72	0.076	2.7	132.4	11.0	50	1.0	4.7	6.2	454	2.34	18.9	3.8	412.5	13.6	45	0.2	3.1	11.4	33



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0053522	RC Chip	1.54	0.072	15	7	0.65	72	0.006	<20	1.36	0.020	0.22	1.2	<0.01	2.1	0.3	0.18	4	<0.5	<0.2
B0053523	RC Chip	1.52	0.070	14	8	0.65	63	0.007	<20	1.31	0.024	0.21	2.3	<0.01	2.2	0.3	0.46	5	<0.5	<0.2
B0053524	RC Chip	1.35	0.073	16	9	0.63	82	0.039	<20	1.31	0.030	0.30	2.6	<0.01	2.6	0.7	0.40	5	<0.5	<0.2
B0053525	RC Chip	1.33	0.067	19	9	0.58	72	0.022	<20	1.19	0.032	0.19	2.1	<0.01	2.9	0.3	0.64	5	<0.5	0.2
B0053526	RC Chip	1.46	0.071	17	9	0.73	49	0.024	<20	1.42	0.031	0.21	2.3	<0.01	2.7	0.3	0.45	6	<0.5	<0.2
B0053527	RC Chip	1.23	0.071	17	10	0.74	48	0.051	<20	1.32	0.029	0.16	2.6	<0.01	2.6	0.3	0.21	6	<0.5	<0.2
B0053528	RC Chip	0.69	0.072	14	13	0.67	45	0.078	<20	1.12	0.036	0.11	4.6	<0.01	2.1	0.2	0.14	5	<0.5	<0.2
B0053529	RC Chip	0.74	0.069	15	12	0.67	40	0.078	<20	1.11	0.035	0.10	3.4	<0.01	2.0	0.2	0.10	5	<0.5	<0.2
B0053530	RC Chip	0.65	0.066	23	12	0.71	116	0.101	<20	1.09	0.044	0.16	2.5	<0.01	3.0	0.2	0.12	5	<0.5	<0.2
B0053531	RC Chip	0.80	0.065	12	12	0.80	29	0.102	<20	1.28	0.032	0.09	2.0	<0.01	1.9	0.1	0.13	5	<0.5	<0.2
B0053532	RC Chip	0.78	0.065	21	14	0.84	41	0.094	<20	1.27	0.037	0.11	1.6	<0.01	2.4	0.2	0.09	5	<0.5	<0.2
B0053533	RC Chip	0.84	0.065	19	14	0.81	52	0.053	<20	1.30	0.042	0.13	0.6	<0.01	2.3	0.2	0.07	5	<0.5	<0.2
B0053534	RC Chip	0.80	0.065	18	13	0.86	58	0.099	<20	1.25	0.042	0.13	1.7	<0.01	2.3	0.2	0.08	5	<0.5	<0.2
B0053535	RC Chip	0.99	0.065	19	15	0.89	48	0.105	<20	1.29	0.047	0.12	1.9	<0.01	2.6	0.2	0.12	5	<0.5	<0.2
B0053536	RC Chip	0.82	0.065	19	13	0.76	81	0.089	<20	1.16	0.045	0.14	2.1	<0.01	3.1	0.3	0.19	5	<0.5	<0.2
B0053537	RC Chip	0.78	0.062	15	13	0.73	78	0.105	<20	1.14	0.049	0.16	2.3	<0.01	2.7	0.3	0.26	5	<0.5	<0.2
B0053538	RC Chip	0.86	0.061	10	13	0.69	54	0.088	<20	1.17	0.041	0.14	2.1	<0.01	1.9	0.3	0.13	5	<0.5	<0.2
B0053539	RC Chip	0.94	0.062	15	13	0.73	63	0.088	<20	1.21	0.043	0.12	2.0	<0.01	2.1	0.2	0.20	5	<0.5	<0.2
B0053540	RC Chip	0.75	0.065	18	13	0.75	53	0.112	<20	1.15	0.048	0.22	2.3	<0.01	2.7	0.6	0.25	5	<0.5	<0.2
B0053541	RC Chip	0.80	0.065	10	11	0.81	57	0.120	<20	1.18	0.049	0.27	2.0	<0.01	2.6	0.8	0.20	5	<0.5	<0.2
B0053542	RC Chip	1.07	0.066	9	12	0.70	51	0.069	<20	1.20	0.042	0.23	0.9	<0.01	2.6	0.6	0.07	5	<0.5	<0.2
B0053543	RC Chip	1.12	0.068	12	13	0.67	47	0.020	<20	1.22	0.034	0.19	0.5	<0.01	2.2	0.5	0.10	5	<0.5	<0.2
B0053544	RC Chip	1.31	0.062	16	11	0.64	66	0.022	<20	1.19	0.035	0.16	0.6	<0.01	2.1	0.4	0.30	5	<0.5	<0.2
B0053545	RC Chip	1.00	0.064	13	13	0.71	47	0.035	<20	1.12	0.033	0.16	1.1	<0.01	2.1	0.3	0.35	5	<0.5	<0.2
B0053546	RC Chip	1.07	0.063	13	12	0.72	52	0.070	<20	1.25	0.041	0.15	1.2	<0.01	2.1	0.3	0.23	5	<0.5	<0.2
B0053547	RC Chip	0.95	0.062	13	12	0.72	45	0.078	<20	1.19	0.036	0.13	2.0	<0.01	2.1	0.3	0.21	5	<0.5	<0.2
B0053548	RC Chip	1.11	0.066	10	12	0.89	40	0.074	<20	1.37	0.033	0.17	1.7	<0.01	2.5	0.3	0.38	6	<0.5	<0.2
B0053549	RC Chip	1.16	0.072	12	16	0.74	37	0.082	<20	1.16	0.032	0.13	3.6	<0.01	2.4	0.2	0.62	6	<0.5	0.4
B0053550	RC Chip	1.22	0.071	12	15	0.71	32	0.058	<20	1.16	0.028	0.15	3.3	<0.01	2.3	0.2	0.38	6	<0.5	0.4
B0053551	RC Chip	0.86	0.068	13	15	0.73	43	0.091	<20	1.15	0.034	0.20	4.0	<0.01	2.2	0.5	0.19	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1
B0053552	RC Chip	1.59	0.055	2.8	157.9	10.5	47	1.1	4.9	5.9	465	2.43	16.5	4.1	19.3	16.2	28	0.1	2.6	12.1	35
B0053553	RC Chip	1.61	0.070	2.5	155.8	9.4	43	1.1	5.0	11.0	454	2.66	25.0	4.7	18.0	15.9	37	0.1	1.9	9.1	43
B0053554	RC Chip	2.07	0.039	17.3	53.8	8.8	41	0.4	4.3	4.2	444	2.19	17.5	3.9	12.6	14.0	54	0.1	3.1	3.0	33
B0053555	RC Chip	2.45	0.160	5.3	46.8	8.6	46	0.6	4.9	10.3	544	3.47	45.4	3.9	33.3	13.9	40	0.1	2.5	6.4	34
B0053556	RC Chip	1.42	0.071	5.3	58.4	20.7	53	1.0	5.2	16.2	545	3.44	45.0	5.6	90.5	14.9	41	0.2	2.2	10.7	40
B0053557	RC Chip	1.78	0.073	2.5	53.6	13.9	49	0.7	4.7	11.1	537	2.96	37.1	4.2	20.8	14.4	57	0.1	2.4	7.3	46
B0053558	RC Chip	2.28	0.042	1.9	41.4	49.7	50	2.2	5.2	8.5	568	2.72	27.4	5.3	14.5	14.6	106	0.2	0.9	15.3	47
B0053559	RC Chip	3.53	0.149	3.5	141.4	402.0	55	19.1	4.5	16.5	494	3.36	135.2	5.5	38.5	13.8	120	1.0	2.2	66.1	32
B0053560	RC Chip	2.69	0.037	7.7	19.9	22.4	47	0.9	6.8	8.3	793	2.41	32.0	2.8	10.4	12.9	188	<0.1	0.8	3.6	37
B0053561	RC Chip	2.14	0.035	2.4	3.3	10.7	46	0.2	4.9	8.5	635	2.83	20.9	4.6	9.1	21.6	93	<0.1	1.0	1.6	43
B0053562	RC Chip	2.59	0.028	1.7	25.8	12.3	41	0.4	4.2	5.2	580	2.33	20.7	4.1	17.3	13.7	69	0.1	0.5	2.0	31
B0053563	RC Chip	2.57	0.013	1.3	11.9	10.8	38	0.2	4.3	7.4	619	2.38	10.7	3.8	4.9	11.9	145	<0.1	0.3	0.7	42
B0053564	RC Chip	2.78	0.023	2.1	13.1	9.0	39	0.3	4.2	6.5	582	2.29	13.4	3.5	5.7	11.8	108	<0.1	0.6	1.0	38



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
B0053552	RC Chip	0.85	0.068	16	16	0.75	45	0.089	<20	1.15	0.038	0.18	3.1	<0.01	2.5	0.4	0.23	5	<0.5	<0.2
B0053553	RC Chip	0.96	0.067	21	15	0.77	62	0.085	<20	1.19	0.040	0.22	2.3	<0.01	3.0	0.5	0.46	5	<0.5	<0.2
B0053554	RC Chip	1.09	0.063	13	15	0.67	43	0.094	<20	1.17	0.041	0.23	2.4	<0.01	2.2	0.6	0.14	5	<0.5	<0.2
B0053555	RC Chip	1.18	0.065	12	13	0.80	40	0.055	<20	1.36	0.034	0.19	2.4	<0.01	2.3	0.4	1.28	6	<0.5	0.4
B0053556	RC Chip	1.37	0.072	16	17	0.73	47	0.052	<20	1.32	0.037	0.19	3.7	<0.01	3.2	0.4	1.18	6	<0.5	0.4
B0053557	RC Chip	1.08	0.071	18	15	0.81	73	0.093	<20	1.32	0.040	0.24	3.3	<0.01	3.4	0.5	0.61	6	<0.5	0.3
B0053558	RC Chip	1.40	0.067	23	14	0.81	149	0.063	<20	1.57	0.038	0.27	1.7	<0.01	3.6	0.5	0.37	6	<0.5	<0.2
B0053559	RC Chip	1.52	0.067	19	11	0.54	80	0.012	<20	1.46	0.028	0.22	1.3	<0.01	2.7	0.4	1.63	5	<0.5	0.6
B0053560	RC Chip	3.10	0.062	18	12	0.81	100	0.039	<20	1.69	0.031	0.17	1.4	<0.01	2.3	0.3	0.39	6	<0.5	<0.2
B0053561	RC Chip	1.52	0.073	17	15	0.90	171	0.073	<20	1.47	0.042	0.27	1.4	<0.01	2.9	0.4	0.35	6	<0.5	<0.2
B0053562	RC Chip	1.80	0.063	13	11	0.82	51	0.013	<20	1.76	0.024	0.15	0.6	<0.01	1.9	0.3	0.18	6	<0.5	<0.2
B0053563	RC Chip	2.38	0.060	20	11	0.80	220	0.027	<20	1.94	0.025	0.28	0.6	<0.01	2.9	0.4	0.13	6	<0.5	<0.2
B0053564	RC Chip	2.62	0.056	17	13	0.70	196	0.066	<20	1.50	0.042	0.28	1.7	<0.01	2.4	0.4	0.19	5	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0053989	RC Chip	2.70	0.009	2.2	14.1	7.3	25	0.2	4.9	12.3	470	2.45	14.7	3.1	2.3	17.1	54	<0.1	1.1	0.7	29
REP B0053989	QC			2.0	14.6	7.1	25	0.2	4.9	11.6	460	2.40	15.0	3.3	1.4	15.4	53	<0.1	1.0	0.7	28
B0053524	RC Chip	3.18	0.037	8.1	65.7	5.2	45	0.7	4.4	9.5	502	2.31	27.4	4.9	43.4	14.8	97	<0.1	2.4	14.9	24
REP B0053524	QC		0.045																		
B0053532	RC Chip	3.05	0.008	1.8	15.8	6.8	48	0.2	4.9	7.5	542	2.57	13.7	3.3	4.4	14.1	28	<0.1	1.5	1.4	39
REP B0053532	QC			1.9	15.4	7.0	48	0.2	4.9	7.5	544	2.59	13.6	3.8	4.4	14.5	27	<0.1	1.5	1.4	39
B0053541	RC Chip	2.57	0.029	1.6	11.1	10.7	41	0.3	4.4	5.8	482	2.38	43.8	3.2	11.5	13.3	51	0.2	2.9	1.0	36
REP B0053541	QC		0.018																		
Core Reject Duplicates																					
B0053986	RC Chip	2.53	0.007	7.2	8.7	6.9	28	0.1	4.7	7.2	500	2.50	9.5	3.3	4.8	14.3	46	<0.1	1.3	0.1	39
DUP B0053986	QC		0.007	10.6	8.5	7.3	31	0.1	4.8	7.8	533	2.61	10.8	2.8	0.8	16.1	48	<0.1	1.3	0.1	42
B0053528	RC Chip	2.29	0.019	5.5	18.0	11.1	61	0.2	4.9	5.7	466	2.37	66.3	3.3	5.8	15.4	30	0.2	2.9	1.2	31
DUP B0053528	QC		0.015	5.5	17.6	11.1	60	0.2	5.2	6.0	481	2.43	63.3	3.2	3.2	14.7	30	<0.1	2.7	1.1	32
B0053562	RC Chip	2.59	0.028	1.7	25.8	12.3	41	0.4	4.2	5.2	580	2.33	20.7	4.1	17.3	13.7	69	0.1	0.5	2.0	31
DUP B0053562	QC		0.027	1.7	23.8	13.1	40	0.4	4.2	5.2	578	2.29	21.3	4.1	15.9	15.0	67	0.1	0.5	2.1	30
Reference Materials																					
STD BVGEO01	Standard			11.3	4471.3	198.7	1755	2.6	158.8	25.8	707	3.88	125.3	3.8	240.9	15.5	64	6.6	2.8	29.5	73
STD DS11	Standard			14.2	148.4	141.1	349	1.7	79.5	14.3	1041	3.22	43.3	2.5	47.5	7.9	66	2.4	6.5	11.3	51
STD DS11	Standard			15.0	154.0	149.0	354	1.9	84.2	14.2	1068	3.26	42.1	2.6	74.1	7.8	67	2.3	7.0	11.9	47
STD DS11	Standard			14.1	152.3	141.5	350	1.7	82.5	14.4	1062	3.21	45.3	2.5	213.3	7.6	65	2.3	8.3	11.3	48
STD OREAS262	Standard			0.7	117.6	58.5	158	0.5	65.4	28.6	546	3.45	38.5	1.2	62.6	9.5	40	0.6	3.1	1.1	21
STD OREAS262	Standard			0.7	114.8	54.0	148	0.5	64.4	27.9	548	3.39	34.6	1.1	57.7	8.5	35	0.6	2.7	0.9	22
STD OREAS262	Standard			0.7	119.7	58.0	152	0.5	68.7	28.9	560	3.49	37.1	1.2	57.9	9.1	36	0.6	2.8	1.0	21
STD OREAS262	Standard			0.6	114.1	55.9	148	0.5	65.4	27.9	545	3.28	34.1	1.1	69.1	8.9	35	0.6	3.6	0.9	21
STD OXB130	Standard		0.128																		
STD OXB130	Standard		0.120																		
STD OXG141	Standard		0.959																		
STD OXG141	Standard		0.938																		



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
Pulp Duplicates																				
B0053989	RC Chip	0.92	0.072	13	14	0.47	68	0.052	<20	1.14	0.036	0.17	1.4	<0.01	2.3	0.2	0.21	4	<0.5	<0.2
REP B0053989	QC	0.90	0.072	13	14	0.45	67	0.050	<20	1.10	0.035	0.16	1.5	<0.01	2.0	0.2	0.21	5	<0.5	<0.2
B0053524	RC Chip	1.35	0.073	16	9	0.63	82	0.039	<20	1.31	0.030	0.30	2.6	<0.01	2.6	0.7	0.40	5	<0.5	<0.2
REP B0053524	QC																			
B0053532	RC Chip	0.78	0.065	21	14	0.84	41	0.094	<20	1.27	0.037	0.11	1.6	<0.01	2.4	0.2	0.09	5	<0.5	<0.2
REP B0053532	QC	0.78	0.065	21	14	0.84	41	0.094	<20	1.27	0.037	0.11	1.6	<0.01	2.4	0.2	0.10	5	<0.5	<0.2
B0053541	RC Chip	0.80	0.065	10	11	0.81	57	0.120	<20	1.18	0.049	0.27	2.0	<0.01	2.6	0.8	0.20	5	<0.5	<0.2
REP B0053541	QC																			
Core Reject Duplicates																				
B0053986	RC Chip	0.53	0.067	11	21	0.49	38	0.063	<20	1.05	0.050	0.08	2.6	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
DUP B0053986	QC	0.56	0.073	12	18	0.54	38	0.068	<20	1.12	0.050	0.08	2.2	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
B0053528	RC Chip	0.69	0.072	14	13	0.67	45	0.078	<20	1.12	0.036	0.11	4.6	<0.01	2.1	0.2	0.14	5	<0.5	<0.2
DUP B0053528	QC	0.71	0.075	14	13	0.71	42	0.081	<20	1.16	0.035	0.11	4.5	<0.01	2.2	0.2	0.14	5	<0.5	<0.2
B0053562	RC Chip	1.80	0.063	13	11	0.82	51	0.013	<20	1.76	0.024	0.15	0.6	<0.01	1.9	0.3	0.18	6	<0.5	<0.2
DUP B0053562	QC	1.81	0.063	15	11	0.80	50	0.013	<20	1.74	0.024	0.15	0.6	<0.01	1.9	0.3	0.17	6	<0.5	<0.2
Reference Materials																				
STD BVGEO01	Standard	1.32	0.076	29	174	1.33	359	0.246	<20	2.34	0.201	0.94	4.5	0.12	6.3	0.7	0.68	8	4.9	0.9
STD DS11	Standard	1.08	0.071	17	60	0.87	417	0.087	<20	1.16	0.074	0.41	2.7	0.25	3.2	5.2	0.28	5	2.3	4.7
STD DS11	Standard	1.08	0.068	18	61	0.87	445	0.093	<20	1.15	0.074	0.41	3.0	0.28	3.1	5.3	0.27	5	2.3	4.7
STD DS11	Standard	1.06	0.073	17	61	0.87	421	0.091	<20	1.15	0.075	0.41	2.6	0.27	3.1	5.1	0.28	5	2.3	4.7
STD OREAS262	Standard	2.99	0.042	17	43	1.23	269	0.003	<20	1.27	0.072	0.31	0.1	0.16	3.4	0.5	0.27	4	<0.5	0.2
STD OREAS262	Standard	3.01	0.040	15	42	1.20	245	0.003	<20	1.24	0.070	0.31	0.1	0.17	3.2	0.5	0.26	4	0.6	0.2
STD OREAS262	Standard	3.13	0.038	15	44	1.22	254	0.003	<20	1.25	0.070	0.30	0.1	0.16	3.2	0.5	0.25	4	0.6	0.2
STD OREAS262	Standard	2.95	0.038	15	42	1.19	242	0.003	<20	1.26	0.068	0.30	0.1	0.17	3.1	0.4	0.26	4	0.6	0.2
STD OXB130	Standard																			
STD OXB130	Standard																			
STD OXG141	Standard																			
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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
STD OXN155	Standard	7.614																			
STD OXN155	Standard	7.524																			
STD BVGEO01 Expected				10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5
STD OXG141 Expected		0.93																			
STD OXN155 Expected		7.762																			
STD OXB130 Expected		0.125																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank	0.006																			
BLK	Blank	<0.005																			
BLK	Blank	0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
ROCK-WHI	Prep Blank	0.006	0.9	4.1	1.0	27	<0.1	1.1	4.1	444	1.95	12.8	0.4	0.9	2.2	20	<0.1	<0.1	<0.1	<0.1	24
ROCK-WHI	Prep Blank	0.005	0.7	1.5	0.9	27	<0.1	0.8	3.6	447	1.84	6.3	0.4	<0.5	2.2	17	<0.1	<0.1	<0.1	<0.1	21



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Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: January 14, 2021

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Part: 2 of 2

QUALITY CONTROL REPORT

WHI20000526.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
STD OXN155	Standard																			
STD OXN155	Standard																			
STD BVGE001 Expected		1.3219	0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.62	0.038	6	3	0.45	50	0.080	<20	0.85	0.069	0.07	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.55	0.038	5	2	0.44	46	0.073	<20	0.75	0.058	0.07	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2



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Client: **0890763 B.C. Ltd**
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: November 20, 2020
Analysis Start: February 09, 2021
Report Date: March 04, 2021
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI20000646.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	9	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	9	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	9	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	9	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude Creek
Report Date: March 04, 2021

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI20000646.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1
B0053976	RC Chip	3.33	<0.005	2.5	7.1	11.0	30	<0.1	4.6	6.8	497	2.70	8.5	3.1	1.0	15.0	66	0.2	1.7	0.2	41
B0053977	RC Chip	2.58	<0.005	2.9	7.1	9.9	31	<0.1	4.5	6.6	500	2.58	10.5	3.6	0.7	17.1	69	0.2	1.9	0.2	39
B0053978	RC Chip	2.74	0.011	2.6	5.5	7.8	27	<0.1	4.6	5.1	459	2.14	11.3	2.2	<0.5	15.6	74	<0.1	2.6	<0.1	25
B0053979	RC Chip	3.44	<0.005	1.9	3.4	7.5	28	<0.1	3.8	4.1	449	2.08	10.6	1.9	0.8	15.3	56	0.1	2.3	<0.1	23
B0053980	RC Chip	2.72	0.010	2.1	15.1	10.0	37	0.1	6.4	8.4	470	2.23	14.5	2.1	2.4	14.1	45	0.2	2.5	0.4	22
B0053981	RC Chip	2.43	<0.005	2.3	3.6	9.3	30	<0.1	4.1	5.4	515	2.21	9.8	2.1	<0.5	14.7	59	0.2	2.5	0.1	27
B0053982	RC Chip	2.54	<0.005	2.6	6.7	8.2	30	<0.1	4.5	5.0	505	2.27	10.0	2.4	<0.5	15.7	89	0.1	2.7	<0.1	23
B0053983	RC Chip	2.65	0.005	1.7	17.9	11.1	44	0.2	4.3	5.2	547	2.40	13.6	3.0	1.9	16.4	46	0.2	2.3	0.9	31
B0053511	Rock DUP																				
B695324	Rock DUP		<0.005	2.1	19.1	10.6	46	0.2	4.5	4.9	542	2.46	13.7	3.2	2.7	19.2	45	0.1	2.3	0.8	32



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Project: Rude Creek
Report Date: March 04, 2021

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI20000646.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
B0053976	RC Chip	0.67	0.072	15	18	0.57	126	0.104	<20	1.18	0.069	0.17	2.6	<0.01	3.0	0.2	<0.05	5	<0.5	<0.2
B0053977	RC Chip	0.74	0.069	15	18	0.55	75	0.101	<20	1.25	0.074	0.12	2.3	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2
B0053978	RC Chip	0.70	0.075	10	15	0.43	89	0.085	<20	1.20	0.053	0.20	1.8	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2
B0053979	RC Chip	0.66	0.065	9	12	0.44	82	0.077	<20	1.16	0.046	0.19	1.4	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2
B0053980	RC Chip	0.74	0.069	8	13	0.45	69	0.074	<20	1.11	0.043	0.15	2.5	<0.01	1.9	0.1	0.17	4	<0.5	<0.2
B0053981	RC Chip	0.79	0.072	10	15	0.46	74	0.081	<20	1.17	0.053	0.14	2.3	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
B0053982	RC Chip	0.65	0.073	10	14	0.43	92	0.075	<20	1.13	0.042	0.16	1.6	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
B0053983	RC Chip	0.82	0.070	15	13	0.59	88	0.087	<20	1.24	0.052	0.17	1.8	0.01	2.4	0.2	0.08	5	<0.5	<0.2
B0053511	Rock DUP																			
B695324	Rock DUP	0.83	0.070	16	14	0.61	85	0.088	<20	1.22	0.050	0.16	1.8	<0.01	2.4	0.2	0.09	5	<0.5	<0.2



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Project: Rude Creek
Report Date: March 04, 2021

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

WHI20000646.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
B0053976 RC Chip	3.33	<0.005	2.5	7.1	11.0	30	<0.1	4.6	6.8	497	2.70	8.5	3.1	1.0	15.0	66	0.2	1.7	0.2	41	
REP B0053976 QC		<0.005																			
Core Reject Duplicates																					
B0053983 RC Chip	2.65	0.005	1.7	17.9	11.1	44	0.2	4.3	5.2	547	2.40	13.6	3.0	1.9	16.4	46	0.2	2.3	0.9	31	
DUP B0053983 QC		0.007	1.5	19.7	11.1	46	0.2	4.6	5.0	542	2.43	14.2	3.1	3.3	16.0	45	0.2	2.3	0.8	32	
Reference Materials																					
STD DS11 Standard			15.0	151.3	150.8	355	1.7	82.9	14.4	1054	3.20	46.3	2.6	47.9	8.3	71	2.6	8.8	12.3	47	
STD OREAS262 Standard			0.9	116.8	60.8	152	0.5	69.0	28.0	541	3.40	40.6	1.3	68.9	10.0	38	0.6	4.0	1.1	21	
STD OXB130 Standard		0.132																			
STD OXG141 Standard		0.932																			
STD OXN155 Standard		7.885																			
STD OXG141 Expected		0.93																			
STD OXN155 Expected		7.762																			
STD OXB130 Expected		0.125																			
STD DS11 Expected			13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	
BLK Blank		<0.005																			
BLK Blank		<0.005																			
BLK Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	1.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
Prep Wash																					
ROCK-WHI Prep Blank		<0.005	0.8	1.6	1.2	24	<0.1	1.1	3.1	403	1.80	1.1	0.5	0.9	3.2	23	<0.1	<0.1	<0.1	21	
ROCK-WHI Prep Blank		<0.005	1.1	2.4	1.1	24	<0.1	0.9	3.2	401	1.82	1.2	0.5	<0.5	2.9	26	<0.1	<0.1	<0.1	20	



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Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: March 04, 2021

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

WHI20000646.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
B0053976	RC Chip	0.67	0.072	15	18	0.57	126	0.104	<20	1.18	0.069	0.17	2.6	<0.01	3.0	0.2	<0.05	5	<0.5	<0.2
REP B0053976	QC																			
Core Reject Duplicates																				
B0053983	RC Chip	0.82	0.070	15	13	0.59	88	0.087	<20	1.24	0.052	0.17	1.8	0.01	2.4	0.2	0.08	5	<0.5	<0.2
DUP B0053983	QC	0.84	0.071	16	12	0.61	89	0.089	<20	1.25	0.051	0.17	1.8	<0.01	2.5	0.2	0.09	5	<0.5	<0.2
Reference Materials																				
STD DS11	Standard	1.06	0.074	19	61	0.84	451	0.092	<20	1.15	0.074	0.40	3.0	0.28	3.3	5.3	0.28	5	2.3	5.0
STD OREAS262	Standard	3.06	0.040	18	49	1.19	268	0.003	<20	1.24	0.069	0.30	0.2	0.18	3.3	0.5	0.26	4	<0.5	0.2
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.01	<0.05	<1	<0.5	<0.2
Prep Wash																				
ROCK-WHI	Prep Blank	0.61	0.036	7	2	0.39	60	0.079	<20	0.81	0.080	0.08	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.60	0.038	7	2	0.39	67	0.083	<20	0.83	0.086	0.09	0.7	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2



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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 05, 2020
Analysis Start: December 18, 2020
Report Date: January 13, 2021
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI20000669.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 8

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	8	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
AQ200	8	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
FA430	8	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
SHP01	8	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2 Canada

Project: Rude Creek
Report Date: January 13, 2021

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CERTIFICATE OF ANALYSIS

WHI20000669.1

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
B0054188	RC Chip	2.16	2.6	9.9	3.7	22	0.1	4.3	7.2	458	2.01	13.2	2.7	2.9	15.4	32	<0.1	1.4	0.5	18	0.66
B0054189	RC Chip	2.07	2.2	13.5	3.6	28	0.2	4.2	6.6	553	2.18	10.6	2.6	1.5	12.4	52	<0.1	1.4	0.6	18	0.68
B0053701	RC Chip	1.47	5.2	32.4	81.1	39	0.5	7.0	7.0	442	2.63	52.2	7.1	28.1	14.5	48	0.2	3.1	44.4	30	0.32
B0053630	RC Chip	1.98	3.1	2.8	7.1	47	0.1	4.2	4.6	493	2.33	12.3	3.7	3.4	17.7	21	<0.1	1.2	0.6	31	0.94
B0053631	RC Chip	2.02	3.8	12.7	10.3	48	0.2	4.7	4.1	548	2.57	12.5	2.9	2.8	15.7	25	0.2	1.3	1.7	34	0.87
B0053632	RC Chip	1.61	2.2	37.2	9.3	51	0.5	4.7	3.8	612	2.78	10.9	1.8	2.4	12.3	21	<0.1	1.0	3.9	34	0.63
B0054266	RC Chip	2.84	1.0	6.6	9.3	28	0.1	3.7	5.9	485	2.06	162.3	2.9	2.4	15.1	1268	<0.1	0.9	0.5	30	2.04
B0053699	RC Chip	1.00	12.5	38.4	8.3	39	0.7	5.8	13.7	451	3.88	226.4	7.3	82.0	14.7	44	0.1	1.1	5.9	16	1.28



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Report Date: January 13, 2021

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CERTIFICATE OF ANALYSIS

WHI20000669.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005
B0054188	RC Chip	0.059	12	12	0.29	61	0.029	<20	1.20	0.039	0.19	1.5	<0.01	1.4	0.2	<0.05	4	<0.5	<0.2	0.008
B0054189	RC Chip	0.061	12	12	0.38	84	0.023	<20	1.36	0.037	0.25	0.5	<0.01	1.4	0.2	0.07	4	<0.5	<0.2	0.006
B0053701	RC Chip	0.064	17	10	0.51	119	0.062	<20	1.21	0.043	0.21	0.6	<0.01	2.3	0.3	0.09	5	<0.5	<0.2	0.040
B0053630	RC Chip	0.066	12	12	0.67	36	0.065	<20	1.24	0.050	0.19	1.9	<0.01	2.1	0.2	0.14	6	<0.5	<0.2	0.031
B0053631	RC Chip	0.062	11	13	0.75	56	0.077	<20	1.37	0.052	0.22	2.1	<0.01	2.3	0.3	0.13	6	<0.5	<0.2	0.007
B0053632	RC Chip	0.062	10	13	0.82	47	0.072	<20	1.55	0.054	0.19	1.9	<0.01	2.2	0.3	<0.05	7	<0.5	<0.2	0.008
B0054266	RC Chip	0.071	13	7	0.44	455	0.024	<20	1.94	0.059	0.21	0.3	<0.01	2.3	0.2	0.19	5	<0.5	<0.2	0.011
B0053699	RC Chip	0.078	15	8	0.58	104	0.005	<20	1.50	0.026	0.35	1.1	<0.01	1.9	0.4	2.53	4	<0.5	0.5	0.216



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Report Date: January 13, 2021

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QUALITY CONTROL REPORT

WHI20000669.1

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
B0054188 RC Chip	2.16	2.6	9.9	3.7	22	0.1	4.3	7.2	458	2.01	13.2	2.7	2.9	15.4	32	<0.1	1.4	0.5	18	0.66	
REP B0054188 QC																					
Reference Materials																					
STD BVGE001 Standard		10.5	4444.9	180.3	1738	2.6	166.3	24.3	740	3.69	116.3	3.5	212.4	13.0	53	6.4	2.5	23.6	75	1.34	
STD DS11 Standard		15.7	148.4	141.3	356	2.0	82.4	14.5	1023	3.15	46.7	2.6	89.3	8.0	69	2.8	7.9	12.3	49	1.06	
STD OREAS262 Standard		0.6	112.9	58.2	154	0.5	64.9	28.2	530	3.30	37.9	1.3	60.5	9.7	38	0.7	3.0	1.1	22	2.91	
STD OREAS262 Standard		0.6	115.4	51.6	147	0.5	63.5	27.0	549	3.19	35.2	1.1	58.5	8.0	34	0.6	3.6	0.9	20	2.96	
STD OXB130 Standard																					
STD OXG141 Standard																					
STD OXN155 Standard																					
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD DS11 Expected		13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	
STD BVGE001 Expected		10.8	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	1.3219	
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98	
BLK Blank																					
BLK Blank																					
BLK Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																					
ROCK-WHI Prep Blank		0.9	1.8	1.1	29	<0.1	1.1	3.6	479	2.01	2.3	0.4	<0.5	2.1	22	<0.1	<0.1	<0.1	24	0.57	



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Project: Rude Creek
Report Date: January 13, 2021

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QUALITY CONTROL REPORT

WHI20000669.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA430
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
Pulp Duplicates																				
B0054188	RC Chip	0.059	12	12	0.29	61	0.029	<20	1.20	0.039	0.19	1.5	<0.01	1.4	0.2	<0.05	4	<0.5	<0.2	0.008
REP B0054188	QC																			0.008
Reference Materials																				
STD BVGE001	Standard	0.071	25	157	1.31	322	0.232	<20	2.24	0.175	0.87	3.9	0.09	5.9	0.6	0.67	7	4.8	1.0	
STD DS11	Standard	0.077	19	60	0.86	439	0.091	<20	1.16	0.074	0.41	2.7	0.27	3.3	5.0	0.29	5	2.2	5.0	
STD OREAS262	Standard	0.043	18	43	1.21	261	0.003	<20	1.29	0.071	0.32	0.1	0.15	3.5	0.5	0.26	4	0.6	0.2	
STD OREAS262	Standard	0.038	13	39	1.16	229	0.003	<20	1.16	0.066	0.28	0.1	0.15	3.0	0.4	0.25	4	<0.5	0.2	
STD OXB130	Standard																			0.126
STD OXG141	Standard																			0.927
STD OXN155	Standard																			7.413
STD OXG141 Expected																				0.93
STD OXN155 Expected																				7.762
STD OXB130 Expected																				0.125
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56	
STD BVGE001 Expected		0.0727	25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	0.1	5.97	0.62	0.6655	7.37	4.84	1.02	
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23	
BLK	Blank																			<0.005
BLK	Blank																			<0.005
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
ROCK-WHI	Prep Blank	0.039	6	4	0.46	59	0.086	<20	0.94	0.114	0.11	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2	<0.005



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Client: **0890763 B.C. Ltd**
2200 HSBC Building
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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: October 14, 2020
Analysis Start: January 15, 2021
Report Date: January 21, 2021
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CERTIFICATE OF ANALYSIS

WHI20000564.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 2

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Jean Pautler

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-500	2	Crush 90% 10 mesh, spilt and pulverize 500g 85% 200 me			WHI
FA430	2	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	2	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	2	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI20000564.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	
C295523	Rock	1.68	1.311	11.4	25.4	106.7	56	2.2	2.7	5.1	231	5.02	>10000	7.5	1305.9	11.1	13	1.6	54.4	1.5	19
C295524	Rock	1.25	0.542	1.9	286.2	27.7	115	1.7	28.8	70.1	534	4.69	235.0	5.3	356.4	15.1	23	2.7	2.8	15.6	44



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CERTIFICATE OF ANALYSIS **WHI20000564.1**

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
C295523	Rock	0.11	0.053	10	3	0.25	142	0.005	<20	0.68	0.019	0.20	1.1	0.01	2.1	0.2	1.31	2	<0.5	<0.2
C295524	Rock	0.86	0.065	12	4	0.87	197	0.032	<20	1.89	0.038	0.43	0.2	<0.01	5.1	0.8	1.19	6	<0.5	0.2



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QUALITY CONTROL REPORT

WHI20000564.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
Pulp Duplicates																					
C295523	Rock	1.68	1.311	11.4	25.4	106.7	56	2.2	2.7	5.1	231	5.02	>10000	7.5	1305.9	11.1	13	1.6	54.4	1.5	19
REP C295523	QC			12.3	25.6	109.4	56	2.4	2.8	4.9	232	5.03	>10000	7.4	1464.9	11.4	13	1.6	55.6	1.5	20
Reference Materials																					
STD DS11	Standard			15.0	146.3	134.6	350	1.9	81.0	15.1	1039	3.11	47.7	2.6	178.1	7.9	67	2.6	7.1	13.7	48
STD OREAS262	Standard			0.6	111.1	53.1	145	0.5	62.6	28.3	553	3.14	37.3	1.1	62.1	8.6	35	0.6	3.3	1.0	20
STD OXB130	Standard		0.121																		
STD OXG141	Standard		0.946																		
STD OXN155	Standard		7.516																		
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
STD DS11 Expected				13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	8.5	1.0	27	<0.1	1.4	4.4	450	1.90	3.3	0.4	<0.5	2.2	20	<0.1	<0.1	<0.1	25



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QUALITY CONTROL REPORT

WHI20000564.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
Pulp Duplicates																				
C295523	Rock	0.11	0.053	10	3	0.25	142	0.005	<20	0.68	0.019	0.20	1.1	0.01	2.1	0.2	1.31	2	<0.5	<0.2
REP C295523	QC	0.11	0.055	11	3	0.25	149	0.006	<20	0.68	0.019	0.20	1.1	0.01	2.2	0.2	1.31	2	<0.5	<0.2
Reference Materials																				
STD DS11	Standard	1.08	0.075	18	62	0.86	421	0.097	<20	1.16	0.071	0.40	2.9	0.27	3.4	5.0	0.28	5	2.2	4.8
STD OREAS262	Standard	2.93	0.041	16	42	1.17	252	0.003	<20	1.30	0.066	0.30	0.1	0.16	3.8	0.4	0.26	4	<0.5	0.2
STD OXB130	Standard																			
STD OXG141	Standard																			
STD OXN155	Standard																			
STD OXG141 Expected																				
STD OXN155 Expected																				
STD OXB130 Expected																				
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																				
ROCK-WHI	Prep Blank	0.58	0.043	6	2	0.47	50	0.088	<20	0.82	0.059	0.07	0.2	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: July 03, 2020
Analysis Start: July 09, 2020
Report Date: July 17, 2020
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI20000079.1

CLIENT JOB INFORMATION

Project: Rude
Shipment ID: ROY-20200630-001-SOIL
P.O. Number: 4093
Number of Samples: 175

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: 0890763 B.C. Ltd
2200 HSBC Building
885 West Georgia St.
Vancouver British Columbia V6C 3E2
Canada

CC: Bart Jaworski
Isaac Fage

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	175	Dry at 60C			WHI
SS80	175	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	175	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	175	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Rude
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CERTIFICATE OF ANALYSIS

WHI20000079.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1821571	Soil	1.2	22.8	11.6	63	<0.1	26.9	12.4	482	3.41	10.2	1.0	5.4	2.3	21	0.2	0.7	0.4	90	0.22	0.052
1821572	Soil	3.1	28.9	23.9	74	0.2	26.0	13.2	643	3.66	44.1	2.5	3.8	2.0	46	0.2	1.0	1.5	80	0.26	0.083
1821573	Soil	1.7	25.9	15.3	63	0.2	23.4	11.0	503	3.04	26.4	1.9	4.1	2.1	35	0.3	0.8	0.9	74	0.38	0.088
1821575	Soil	1.5	22.9	11.9	83	<0.1	27.8	12.5	490	3.40	14.3	0.9	10.3	1.7	21	0.2	0.7	0.5	81	0.18	0.048
1821574	Soil	1.2	23.0	11.5	71	<0.1	29.8	13.1	510	3.17	14.3	1.0	2.3	1.9	22	0.3	0.6	0.5	74	0.21	0.058
1821577	Soil	2.6	22.6	17.1	65	0.2	19.5	8.4	432	3.08	25.1	1.4	5.8	1.1	25	0.3	0.9	1.2	79	0.16	0.064
1821579	Soil	1.1	22.9	16.4	57	<0.1	24.9	12.5	453	2.91	20.4	1.2	7.4	3.8	23	0.3	0.7	1.4	68	0.23	0.050
1821576	Soil	1.9	21.7	12.9	74	<0.1	22.6	9.9	511	3.48	13.4	0.9	3.2	1.6	20	0.2	0.8	0.5	83	0.17	0.064
1821578	Soil	3.5	32.4	33.8	65	0.4	23.2	12.0	611	3.45	140.4	2.5	7.4	1.4	44	0.2	1.4	7.8	76	0.33	0.083
1821551	Soil	11.0	32.8	20.4	74	0.4	26.9	17.6	628	3.58	36.5	4.2	11.6	7.5	192	0.4	1.8	1.3	74	0.54	0.100
1821553	Soil	1.5	25.2	15.8	69	0.2	23.4	13.7	486	3.27	28.6	1.6	7.5	3.7	43	0.3	1.8	1.3	76	0.31	0.076
1821552	Soil	2.1	19.3	16.3	60	0.1	18.8	8.2	336	3.27	21.4	1.0	5.3	2.6	25	0.3	1.3	0.8	91	0.17	0.048
1821559	Soil	2.0	23.4	16.1	59	0.1	23.6	12.2	380	3.39	22.7	1.4	18.0	3.1	29	0.3	1.2	1.7	79	0.22	0.042
1821557	Soil	1.3	25.8	15.3	63	0.2	27.9	12.4	441	3.24	33.8	1.3	26.8	2.3	25	0.4	1.7	1.3	77	0.21	0.052
1821560	Soil	2.3	24.9	16.4	55	0.1	20.8	9.3	322	3.27	17.6	1.2	53.0	2.3	38	0.1	1.2	3.6	79	0.24	0.043
1821555	Soil	1.0	33.4	15.0	57	0.2	26.2	12.0	419	2.94	24.1	1.5	68.5	3.6	30	0.4	1.4	4.8	70	0.26	0.062
1821558	Soil	1.5	29.4	36.3	111	1.5	25.7	12.4	409	2.96	198.6	2.0	19.1	3.8	35	1.6	6.3	1.8	66	0.30	0.047
1821556	Soil	2.4	42.0	30.7	58	0.6	21.3	11.4	331	3.13	45.8	2.0	12.0	2.6	46	0.5	2.5	6.0	75	0.32	0.066
1821554	Soil	2.3	24.1	21.8	61	0.5	19.9	13.6	414	3.11	49.2	3.0	30.8	6.8	81	0.4	3.1	2.3	61	0.46	0.076
1821588	Soil	2.0	28.6	38.3	113	0.7	19.7	14.1	524	3.19	149.3	2.6	20.0	4.2	90	2.0	10.2	3.7	65	0.34	0.075
1821587	Soil	1.4	32.7	58.3	149	2.8	20.5	11.6	443	2.87	265.3	2.3	19.8	4.8	54	4.3	71.1	12.0	69	0.37	0.066
1821586	Soil	3.8	47.5	89.0	196	1.2	26.0	19.9	841	4.05	361.0	5.5	27.6	4.3	79	4.0	28.9	5.4	78	0.39	0.088
1821584	Soil	0.7	14.4	19.9	54	0.5	13.9	14.7	922	2.52	20.7	2.3	4.6	12.3	245	0.4	1.8	0.9	46	0.79	0.073
1821582	Soil	2.4	21.7	19.8	65	0.1	22.4	12.5	664	3.49	13.6	1.1	2.1	1.0	19	0.2	1.0	0.4	80	0.15	0.080
1821585	Soil	2.4	28.8	36.8	93	1.0	20.5	11.0	435	3.21	98.3	2.2	9.3	2.7	52	1.4	11.4	6.6	80	0.43	0.069
1821581	Soil	1.2	25.2	15.3	70	<0.1	29.2	12.0	417	2.73	11.3	1.0	11.3	4.0	24	0.2	0.5	0.7	70	0.30	0.056
1821580	Soil	1.9	25.8	16.7	67	0.1	26.5	12.8	487	3.29	16.2	1.3	3.7	1.7	23	0.2	0.8	0.8	81	0.23	0.064
1821583	Soil	2.1	22.7	14.8	64	0.2	24.3	11.8	369	2.90	25.4	1.4	3.8	3.8	51	0.4	2.2	1.2	75	0.37	0.075
1821561	Soil	1.9	34.9	26.5	80	0.2	27.8	13.4	501	3.41	22.0	1.2	51.3	2.1	30	0.4	1.0	5.5	83	0.26	0.053
1821562	Soil	1.5	28.2	25.2	62	0.3	24.4	13.1	449	3.19	25.2	1.7	11.3	3.1	41	0.2	1.0	3.7	78	0.27	0.056



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Project: Rude
Report Date: July 17, 2020

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CERTIFICATE OF ANALYSIS

WHI2000079.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1821571	Soil	15	41	0.62	115	0.108	4	2.34	0.011	0.06	0.2	0.04	4.0	0.1	<0.05	7	0.9	<0.2
1821572	Soil	15	37	0.63	164	0.064	3	2.46	0.011	0.08	0.2	0.04	3.2	0.2	<0.05	8	<0.5	<0.2
1821573	Soil	18	33	0.58	165	0.076	3	2.10	0.015	0.08	0.2	0.05	3.3	0.2	<0.05	7	<0.5	<0.2
1821575	Soil	11	37	0.57	126	0.088	4	2.28	0.011	0.05	0.2	0.04	3.4	0.2	<0.05	8	0.8	<0.2
1821574	Soil	12	38	0.64	136	0.084	4	2.41	0.012	0.05	0.2	0.03	3.6	0.1	<0.05	7	0.8	<0.2
1821577	Soil	11	31	0.46	105	0.066	2	1.83	0.011	0.06	0.2	0.04	2.3	0.2	<0.05	7	<0.5	<0.2
1821579	Soil	12	32	0.60	80	0.100	4	2.04	0.014	0.07	0.4	0.03	3.4	0.1	<0.05	5	0.8	<0.2
1821576	Soil	11	35	0.44	120	0.086	3	2.02	0.010	0.06	0.1	0.06	2.9	0.2	<0.05	8	<0.5	<0.2
1821578	Soil	13	36	0.61	183	0.055	3	2.51	0.012	0.08	0.4	0.06	3.1	0.2	<0.05	8	<0.5	<0.2
1821551	Soil	19	35	0.79	215	0.091	4	2.89	0.017	0.11	0.1	0.05	5.3	0.3	<0.05	7	0.6	<0.2
1821553	Soil	13	35	0.62	105	0.103	2	2.44	0.015	0.07	0.2	0.07	3.5	0.2	<0.05	7	0.8	<0.2
1821552	Soil	11	32	0.35	88	0.107	3	1.72	0.010	0.05	0.2	0.04	3.0	0.2	<0.05	9	<0.5	<0.2
1821559	Soil	11	35	0.56	95	0.106	2	2.25	0.012	0.06	0.2	0.03	3.5	0.2	<0.05	7	<0.5	<0.2
1821557	Soil	12	37	0.58	92	0.102	2	2.38	0.012	0.06	0.2	0.05	3.6	0.1	<0.05	7	<0.5	<0.2
1821560	Soil	11	33	0.46	94	0.116	2	2.05	0.011	0.06	0.2	0.06	2.8	0.2	<0.05	8	<0.5	<0.2
1821555	Soil	13	35	0.60	117	0.104	1	2.24	0.014	0.06	0.2	0.03	3.9	0.1	<0.05	6	0.8	<0.2
1821558	Soil	13	32	0.58	103	0.097	2	2.26	0.014	0.07	0.1	0.06	3.4	0.2	<0.05	6	0.7	<0.2
1821556	Soil	11	33	0.42	89	0.091	3	2.01	0.012	0.07	0.2	0.08	3.2	0.2	<0.05	8	<0.5	<0.2
1821554	Soil	15	27	0.62	95	0.085	<1	2.42	0.015	0.07	0.1	0.04	3.6	0.2	<0.05	6	<0.5	<0.2
1821588	Soil	13	27	0.54	143	0.088	3	1.75	0.017	0.08	0.2	0.04	2.9	0.2	<0.05	6	<0.5	<0.2
1821587	Soil	14	30	0.54	127	0.102	2	1.83	0.016	0.07	0.4	0.05	3.3	0.2	<0.05	5	<0.5	<0.2
1821586	Soil	15	36	0.71	189	0.071	1	2.83	0.017	0.09	0.2	0.10	4.6	0.2	<0.05	8	1.1	<0.2
1821584	Soil	27	16	0.60	254	0.006	<1	2.87	0.015	0.06	<0.1	0.02	4.8	0.3	<0.05	6	<0.5	<0.2
1821582	Soil	10	33	0.42	109	0.056	3	1.93	0.009	0.08	0.1	0.05	2.2	0.2	<0.05	7	<0.5	<0.2
1821585	Soil	13	33	0.58	124	0.097	3	1.93	0.013	0.08	0.2	0.06	3.2	0.2	<0.05	7	<0.5	<0.2
1821581	Soil	12	34	0.59	97	0.119	2	2.08	0.016	0.05	0.2	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
1821580	Soil	12	37	0.59	113	0.086	3	2.25	0.012	0.07	0.2	0.05	3.4	0.2	<0.05	7	<0.5	<0.2
1821583	Soil	12	32	0.52	119	0.106	3	1.94	0.016	0.06	0.2	0.03	3.7	0.2	<0.05	6	<0.5	<0.2
1821561	Soil	11	39	0.55	116	0.102	3	2.13	0.013	0.07	0.2	0.08	3.3	0.2	<0.05	7	0.6	<0.2
1821562	Soil	13	34	0.58	122	0.106	3	2.23	0.015	0.08	0.2	0.05	3.7	0.2	<0.05	6	<0.5	<0.2



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Project: Rude
Report Date: July 17, 2020

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1821563	Soil	1.8	23.8	25.8	65	0.4	21.9	11.2	379	3.60	25.0	1.6	6.8	2.0	38	0.4	1.1	4.7	78	0.31	0.054
1821565	Soil	2.0	27.7	40.2	62	0.3	30.9	15.2	671	3.45	32.1	1.1	84.9	1.1	26	0.1	1.3	2.3	77	0.17	0.073
1821570	Soil	1.3	24.1	19.8	62	0.2	27.5	14.0	510	3.27	14.3	1.5	4.1	2.4	34	0.6	0.8	1.7	76	0.24	0.061
1821567	Soil	2.6	55.7	154.4	70	0.9	24.5	14.3	536	4.30	44.5	1.9	514.1	1.1	43	0.4	4.6	41.6	96	0.21	0.055
1821569	Soil	2.4	46.9	196.8	134	0.9	29.9	16.3	770	3.86	31.8	3.1	612.3	2.0	32	1.3	6.5	26.5	79	0.23	0.065
1821568	Soil	2.8	94.0	635.4	430	3.2	17.4	14.6	746	3.01	31.9	4.6	206.7	1.5	160	5.1	17.1	10.3	55	0.49	0.117
1821566	Soil	2.1	37.4	33.7	66	0.4	30.4	20.0	660	3.11	176.3	2.2	10.1	1.2	39	0.4	1.5	4.1	71	0.27	0.095
1821564	Soil	2.9	43.1	108.9	57	0.6	27.7	17.8	448	3.59	68.8	1.7	647.7	2.7	56	0.2	1.9	14.3	72	0.30	0.058
1821651	Soil	2.6	38.5	32.0	77	1.2	28.6	15.6	642	3.76	36.1	4.2	30.3	3.0	35	0.4	2.0	1.7	82	0.22	0.076
1821659	Soil	4.2	27.2	18.5	54	0.3	23.0	11.8	280	3.37	24.5	2.2	29.9	3.8	46	0.2	1.8	3.0	74	0.27	0.039
1821653	Soil	1.3	23.3	17.0	58	0.3	24.2	11.5	382	3.05	19.2	1.6	7.4	3.7	24	0.8	1.3	0.8	76	0.22	0.047
1821655	Soil	0.8	27.8	15.4	55	0.4	24.8	12.6	408	2.61	37.1	1.4	2.9	4.9	34	0.5	2.1	1.8	66	0.28	0.044
1821657	Soil	1.4	23.6	15.0	58	0.2	25.8	13.1	459	3.49	14.6	1.5	4.4	3.2	23	0.2	0.9	1.2	81	0.19	0.053
1821660	Soil	0.8	24.4	11.7	50	<0.1	30.8	12.6	399	2.86	11.4	1.0	7.0	3.4	28	0.2	0.6	1.7	77	0.29	0.032
1821656	Soil	2.4	41.6	23.8	81	0.8	20.8	13.0	393	3.38	93.5	3.2	17.3	4.1	59	0.6	5.0	6.4	64	0.27	0.046
1821654	Soil	0.8	26.4	13.3	55	0.1	28.1	12.6	419	2.79	23.7	1.5	5.6	4.7	34	0.2	1.2	1.1	70	0.27	0.044
1821652	Soil	2.8	36.8	62.1	97	1.4	25.9	14.0	567	3.48	40.0	3.7	12.1	4.9	51	0.5	3.5	2.1	75	0.24	0.056
1821658	Soil	1.9	23.2	15.1	47	0.2	26.2	12.3	310	3.60	13.7	1.3	10.3	4.8	26	0.3	0.8	1.3	83	0.21	0.044
1821670	Soil	2.3	32.6	112.3	83	0.7	25.2	11.3	398	3.86	47.5	1.6	63.4	1.9	22	0.5	2.3	16.3	86	0.19	0.044
1821665	Soil	12.6	56.8	1129.6	64	4.5	24.8	15.7	571	4.40	241.0	4.3	54.9	4.2	95	0.4	4.3	12.3	70	0.23	0.076
1821671	Soil	1.9	22.7	13.7	60	0.4	19.0	8.3	471	3.28	11.0	1.1	7.7	1.3	31	0.3	0.8	1.0	98	0.23	0.068
1821669	Soil	2.9	29.3	89.0	136	0.4	27.7	15.1	695	3.92	25.8	1.2	23.4	1.2	23	0.7	1.7	3.8	79	0.21	0.058
1821667	Soil	3.0	59.3	104.0	65	0.7	30.6	18.1	477	3.50	62.1	2.9	55.8	3.7	46	0.3	2.8	14.0	78	0.28	0.049
1821664	Soil	2.9	27.8	29.0	58	0.2	21.3	13.1	511	3.42	42.9	1.8	10.8	2.2	91	0.2	1.2	3.3	79	0.27	0.048
1821668	Soil	9.7	335.8	743.2	86	14.1	30.9	24.7	696	3.85	101.3	8.7	1166.9	6.8	75	0.9	11.0	93.7	74	0.44	0.101
1821666	Soil	2.4	36.1	135.3	58	0.9	23.6	12.0	421	3.62	98.1	1.8	37.3	2.8	28	0.2	2.6	8.8	72	0.20	0.061
1821663	Soil	3.1	25.4	19.7	63	0.1	21.8	11.5	581	3.84	20.8	1.2	4.5	0.9	23	0.1	1.1	1.8	95	0.12	0.062
1821662	Soil	1.9	26.2	18.3	55	0.2	24.6	13.9	518	3.23	18.4	1.5	6.9	1.6	32	0.2	1.0	3.6	73	0.20	0.082
1821661	Soil	1.8	29.2	20.6	55	0.2	22.4	12.3	494	3.27	20.0	1.6	6.5	1.5	75	0.2	1.2	3.5	78	0.29	0.069
1821672	Soil	3.2	36.5	31.1	69	0.8	24.5	15.6	923	3.12	29.7	6.4	3.4	1.4	69	0.2	1.1	1.9	72	0.69	0.112



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
1821563	Soil	12	35	0.54	148	0.083	2	2.30	0.014	0.06	0.2	0.06	3.2	0.3	<0.05	8	0.5	<0.2
1821565	Soil	11	38	0.47	135	0.081	2	1.94	0.013	0.06	0.1	0.09	2.9	0.2	<0.05	7	<0.5	<0.2
1821570	Soil	14	40	0.64	165	0.083	3	2.51	0.011	0.06	0.2	0.04	3.7	0.2	<0.05	6	<0.5	<0.2
1821567	Soil	15	39	0.48	108	0.073	2	1.68	0.008	0.07	0.2	0.05	2.3	0.2	<0.05	8	<0.5	<0.2
1821569	Soil	15	40	0.63	121	0.078	3	1.98	0.010	0.06	0.5	0.06	3.0	0.2	<0.05	7	0.6	<0.2
1821568	Soil	17	24	0.41	205	0.028	2	1.65	0.009	0.11	0.4	0.07	1.8	0.2	<0.05	5	<0.5	<0.2
1821566	Soil	15	39	0.59	114	0.068	3	2.34	0.013	0.06	0.4	0.14	2.6	0.2	0.07	6	<0.5	<0.2
1821564	Soil	14	34	0.59	114	0.102	3	2.25	0.018	0.08	0.3	0.06	3.3	0.2	<0.05	6	0.6	<0.2
1821651	Soil	17	43	0.67	139	0.085	2	2.85	0.012	0.08	0.2	0.08	4.3	0.2	<0.05	8	<0.5	<0.2
1821659	Soil	12	32	0.46	96	0.095	3	2.16	0.011	0.07	0.2	0.05	3.1	0.2	<0.05	7	<0.5	<0.2
1821653	Soil	13	36	0.58	82	0.107	2	2.18	0.011	0.05	0.2	0.05	3.6	0.1	<0.05	6	<0.5	<0.2
1821655	Soil	12	31	0.57	88	0.117	1	1.93	0.016	0.06	0.2	0.03	3.9	0.1	<0.05	5	<0.5	<0.2
1821657	Soil	15	41	0.59	124	0.092	3	2.48	0.010	0.05	0.2	0.04	4.5	0.2	<0.05	7	<0.5	<0.2
1821660	Soil	11	34	0.58	104	0.132	1	2.03	0.017	0.06	0.2	0.03	3.9	0.1	<0.05	5	0.6	<0.2
1821656	Soil	14	31	0.58	107	0.091	<1	2.48	0.014	0.06	<0.1	0.05	3.4	0.3	<0.05	7	<0.5	<0.2
1821654	Soil	12	34	0.63	94	0.114	2	2.18	0.013	0.06	0.2	0.04	4.2	0.1	<0.05	5	<0.5	<0.2
1821652	Soil	17	40	0.68	132	0.097	<1	2.57	0.011	0.08	0.1	0.05	4.6	0.2	<0.05	7	<0.5	<0.2
1821658	Soil	12	36	0.44	104	0.121	2	2.36	0.010	0.05	0.2	0.07	4.0	0.1	<0.05	7	<0.5	<0.2
1821670	Soil	14	40	0.48	109	0.088	2	2.25	0.008	0.06	0.2	0.04	3.3	0.2	<0.05	8	<0.5	<0.2
1821665	Soil	17	32	0.50	168	0.056	2	2.18	0.024	0.22	0.3	0.10	2.7	0.3	0.38	7	1.2	0.5
1821671	Soil	12	35	0.35	108	0.095	2	1.44	0.008	0.06	0.2	0.06	2.6	0.2	<0.05	8	<0.5	<0.2
1821669	Soil	14	42	0.62	151	0.078	3	2.14	0.009	0.08	0.1	0.05	3.0	0.2	<0.05	8	<0.5	<0.2
1821667	Soil	15	39	0.62	120	0.096	1	2.29	0.013	0.07	0.4	0.05	4.0	0.2	<0.05	7	<0.5	<0.2
1821664	Soil	13	34	0.41	127	0.089	<1	1.68	0.016	0.06	0.2	0.04	2.8	0.2	<0.05	7	<0.5	0.2
1821668	Soil	18	35	0.63	197	0.088	2	2.15	0.018	0.08	0.5	0.07	4.2	0.2	<0.05	6	<0.5	0.3
1821666	Soil	14	35	0.48	126	0.074	3	2.19	0.015	0.11	0.2	0.06	3.5	0.2	0.14	6	<0.5	0.3
1821663	Soil	12	37	0.39	96	0.086	2	2.07	0.009	0.07	0.1	0.10	2.5	0.2	<0.05	10	<0.5	<0.2
1821662	Soil	14	39	0.57	95	0.079	2	2.80	0.011	0.07	0.2	0.08	3.3	0.2	<0.05	7	1.1	<0.2
1821661	Soil	12	32	0.48	137	0.072	2	2.50	0.012	0.09	0.2	0.08	2.7	0.2	<0.05	8	<0.5	<0.2
1821672	Soil	31	36	0.58	240	0.046	2	2.49	0.014	0.10	0.2	0.08	3.8	0.2	0.06	7	<0.5	<0.2



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1821673	Soil	1.1	32.0	48.6	52	0.3	20.0	18.1	923	3.01	37.7	7.7	134.0	7.9	37	0.2	2.9	1.9	54	0.37	0.063
1821674	Soil	1.9	25.9	12.3	57	0.2	16.3	6.7	458	2.65	9.4	1.7	5.9	0.3	18	0.2	1.5	0.4	67	0.16	0.090
1821675	Soil	2.1	26.0	13.4	58	0.2	16.5	7.4	486	2.82	10.3	1.9	4.8	0.3	17	0.2	1.3	0.4	71	0.13	0.092
1821677	Soil	1.3	23.9	13.3	71	0.1	24.8	10.9	545	3.27	12.9	0.9	13.4	0.5	17	0.4	1.0	0.7	79	0.18	0.074
1821680	Soil	1.7	20.1	14.2	56	<0.1	19.7	8.8	355	2.96	12.2	1.0	6.6	1.2	23	0.1	0.8	1.6	77	0.21	0.061
1821681	Soil	1.5	22.1	10.9	56	<0.1	22.0	9.0	364	3.07	11.0	1.1	2.9	1.6	19	0.2	0.7	1.6	78	0.19	0.049
1821679	Soil	1.1	22.2	12.4	65	<0.1	24.5	10.3	469	3.19	11.1	0.8	3.8	1.3	19	0.2	0.7	0.4	82	0.20	0.057
1821678	Soil	2.2	35.8	34.9	84	0.2	32.1	17.1	859	3.90	26.2	2.4	5.5	1.6	27	0.4	0.9	1.0	94	0.24	0.091
1821676	Soil	3.0	27.7	23.8	77	0.4	21.6	10.0	680	3.71	59.4	1.3	5.3	1.0	31	0.2	1.2	2.6	98	0.25	0.076
1821682	Soil	2.0	31.7	14.3	55	0.2	22.2	11.9	462	2.81	18.7	1.9	5.3	5.5	29	0.2	0.6	4.9	71	0.36	0.071
1821710	Soil	1.5	27.3	27.4	77	0.3	22.9	10.5	477	3.09	20.5	1.5	12.0	2.4	33	0.5	1.7	6.8	74	0.27	0.075
1821711	Soil	1.9	26.1	20.6	59	0.1	20.9	9.0	389	3.35	17.6	1.5	7.0	2.8	32	0.2	1.3	2.3	87	0.22	0.056
1821709	Soil	2.2	25.2	40.6	71	0.4	18.7	11.8	758	2.95	38.5	3.3	12.3	7.0	54	0.6	3.0	3.0	58	0.38	0.068
1821708	Soil	1.6	19.9	35.2	73	0.4	17.1	9.7	478	3.03	37.3	1.5	11.0	3.5	54	0.7	4.9	4.6	73	0.26	0.058
1821706	Soil	1.4	24.8	21.1	71	0.3	24.3	11.3	440	2.97	44.0	1.5	200.0	4.3	30	0.9	4.6	2.0	71	0.29	0.077
1821707	Soil	1.7	28.8	40.1	89	1.1	21.6	11.1	502	2.89	69.0	2.5	18.6	3.0	57	1.1	6.6	4.7	67	0.40	0.082
1821705	Soil	1.1	26.5	18.6	73	0.6	22.3	9.4	386	2.69	41.1	1.7	24.4	3.9	41	0.8	5.0	2.5	67	0.37	0.087
1821704	Soil	1.5	25.7	22.9	71	0.7	21.2	11.4	486	2.87	54.5	2.1	22.7	5.2	71	1.2	6.6	3.0	68	0.38	0.072
1821702	Soil	1.8	28.9	398.5	514	1.9	14.3	14.5	881	2.98	54.4	3.0	31.0	9.2	116	5.1	12.6	3.0	52	0.48	0.090
1821703	Soil	1.7	27.3	23.2	78	0.2	21.7	11.4	512	3.14	44.2	1.7	8.9	2.8	54	0.7	5.4	2.3	73	0.25	0.070
1821701	Soil	1.6	24.5	22.4	85	0.3	20.7	13.2	688	3.22	36.4	2.1	24.3	3.4	48	0.8	3.3	2.5	71	0.29	0.098
1821721	Soil	2.1	22.6	16.9	75	0.2	20.6	11.8	632	3.05	12.1	2.3	2.3	5.1	36	0.3	0.7	0.7	73	0.35	0.080
1821719	Soil	1.1	23.3	13.1	58	0.1	22.8	10.8	436	2.87	10.6	2.0	4.7	4.7	34	0.2	0.6	0.9	76	0.38	0.084
1821717	Soil	1.1	33.6	32.1	61	0.5	20.2	10.2	368	2.76	13.9	1.9	5.4	4.6	71	0.2	1.2	3.0	71	0.34	0.069
1821722	Soil	11.5	24.5	29.4	57	0.2	20.1	16.0	707	3.44	21.5	3.3	8.4	5.9	106	0.2	1.0	1.6	63	0.25	0.054
1821720	Soil	1.2	23.0	14.2	66	0.1	22.7	12.0	498	2.95	10.2	1.8	5.9	5.9	32	0.2	0.6	0.8	74	0.36	0.083
1821718	Soil	1.1	28.6	15.7	60	0.1	21.5	12.8	541	2.91	11.4	2.0	5.1	6.4	82	0.2	0.8	0.9	73	0.41	0.086
1821716	Soil	2.2	63.7	60.0	98	0.6	32.6	18.0	993	4.19	31.4	4.3	10.6	5.8	73	0.4	2.3	6.5	94	0.41	0.111
1821715	Soil	1.5	56.3	47.0	64	0.9	17.4	17.7	665	3.38	34.0	4.4	30.5	4.2	449	0.2	1.8	10.8	52	0.42	0.063
1821714	Soil	3.0	64.9	36.7	69	0.8	17.8	14.2	581	3.05	39.0	4.0	78.1	7.7	117	0.6	7.5	10.3	61	0.49	0.094

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1821673	Soil	25	24	0.48	200	0.029	<1	2.21	0.010	0.07	0.2	0.03	4.2	0.2	<0.05	6	<0.5	<0.2
1821674	Soil	9	28	0.29	77	0.038	1	1.74	0.012	0.06	<0.1	0.12	1.5	0.3	0.10	7	<0.5	<0.2
1821675	Soil	10	29	0.31	76	0.037	<1	1.83	0.011	0.05	<0.1	0.14	1.7	0.3	0.08	7	<0.5	<0.2
1821677	Soil	13	37	0.53	105	0.061	1	2.31	0.009	0.05	0.1	0.09	2.4	0.2	<0.05	7	0.7	<0.2
1821680	Soil	11	32	0.41	108	0.070	1	1.80	0.010	0.06	0.1	0.05	2.4	0.2	<0.05	7	0.6	<0.2
1821681	Soil	13	34	0.47	85	0.090	3	2.15	0.009	0.06	0.1	0.06	3.1	0.2	<0.05	7	<0.5	<0.2
1821679	Soil	12	36	0.54	125	0.079	<1	2.16	0.011	0.05	0.2	0.06	3.1	0.2	<0.05	7	<0.5	<0.2
1821678	Soil	17	44	0.74	167	0.080	1	3.04	0.013	0.10	0.2	0.09	4.0	0.2	<0.05	9	<0.5	<0.2
1821676	Soil	12	36	0.43	181	0.077	4	1.88	0.011	0.07	0.2	0.05	3.0	0.2	<0.05	9	0.5	<0.2
1821682	Soil	14	31	0.55	123	0.114	<1	1.63	0.019	0.07	0.3	0.07	3.8	0.1	<0.05	5	<0.5	<0.2
1821710	Soil	13	33	0.51	126	0.080	2	2.00	0.012	0.06	0.2	0.04	3.2	0.2	<0.05	7	<0.5	<0.2
1821711	Soil	13	34	0.44	97	0.104	2	1.71	0.011	0.07	0.1	0.08	3.1	0.1	<0.05	7	<0.5	<0.2
1821709	Soil	16	25	0.58	120	0.067	2	1.75	0.013	0.06	0.2	0.05	3.4	0.1	<0.05	5	<0.5	<0.2
1821708	Soil	11	29	0.44	105	0.090	2	1.38	0.010	0.05	0.3	0.04	2.5	0.1	<0.05	6	<0.5	<0.2
1821706	Soil	12	32	0.51	102	0.098	3	1.90	0.015	0.06	0.3	0.05	3.3	0.1	<0.05	6	0.6	<0.2
1821707	Soil	14	31	0.54	147	0.074	2	1.80	0.016	0.07	0.3	0.07	3.4	0.2	<0.05	6	<0.5	<0.2
1821705	Soil	13	30	0.55	127	0.097	2	1.65	0.017	0.06	0.3	0.04	3.2	0.1	<0.05	5	1.2	<0.2
1821704	Soil	14	30	0.58	145	0.087	2	1.80	0.016	0.06	0.2	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
1821702	Soil	19	19	0.62	242	0.031	1	2.13	0.009	0.10	0.1	0.06	3.3	0.2	<0.05	6	<0.5	<0.2
1821703	Soil	12	32	0.53	114	0.072	<1	1.96	0.011	0.06	0.2	0.05	3.4	0.2	<0.05	7	<0.5	<0.2
1821701	Soil	14	33	0.56	123	0.079	3	2.31	0.011	0.07	0.2	0.06	3.8	0.2	<0.05	7	0.5	<0.2
1821721	Soil	15	29	0.64	206	0.113	2	1.67	0.016	0.08	0.2	0.04	3.8	0.2	<0.05	6	<0.5	<0.2
1821719	Soil	16	33	0.63	191	0.112	2	1.83	0.017	0.08	0.3	0.04	4.3	0.1	<0.05	6	0.7	<0.2
1821717	Soil	14	31	0.55	147	0.101	2	1.91	0.014	0.06	0.3	0.05	3.6	0.2	<0.05	6	<0.5	<0.2
1821722	Soil	21	27	0.62	526	0.062	<1	2.14	0.026	0.09	0.3	0.04	4.2	0.2	0.06	7	<0.5	<0.2
1821720	Soil	15	34	0.65	173	0.123	2	1.82	0.015	0.08	0.2	0.03	4.3	0.2	<0.05	5	0.6	<0.2
1821718	Soil	19	32	0.66	244	0.116	1	1.96	0.015	0.08	0.2	0.03	4.5	0.2	<0.05	5	<0.5	<0.2
1821716	Soil	18	48	0.74	256	0.080	1	3.16	0.012	0.12	0.3	0.08	5.7	0.2	<0.05	10	0.9	<0.2
1821715	Soil	19	23	0.54	522	0.020	<1	2.43	0.012	0.07	0.1	0.04	2.5	0.2	<0.05	7	0.6	0.4
1821714	Soil	19	25	0.58	157	0.091	2	1.93	0.018	0.08	1.1	0.04	4.0	0.1	<0.05	5	0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Rude
Report Date: July 17, 2020

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1821713	Soil	1.5	29.7	33.1	82	0.9	18.0	11.3	450	2.95	62.2	2.1	35.2	7.2	72	0.7	3.4	5.1	67	0.45	0.070
1821712	Soil	1.2	23.5	25.4	67	0.4	21.5	10.7	511	2.91	20.6	1.6	24.4	5.3	39	0.3	1.5	9.8	69	0.37	0.089
1821544	Soil	1.6	55.5	64.5	63	1.2	21.5	13.2	645	3.15	35.2	2.9	52.2	8.1	56	0.3	1.8	11.1	72	0.42	0.083
1821520	Soil	2.4	19.0	8.6	53	<0.1	20.7	10.3	479	2.74	10.6	2.4	6.7	7.7	38	0.2	1.0	0.4	59	0.32	0.069
1821541	Soil	1.2	25.3	11.4	60	<0.1	25.0	12.8	515	3.25	12.8	1.6	2.9	3.5	30	0.2	0.7	0.6	78	0.24	0.059
1821542	Soil	0.9	28.8	10.6	65	0.1	25.5	12.2	495	3.00	10.0	4.3	11.1	7.8	34	0.2	0.6	0.5	74	0.40	0.086
1821510	Soil	1.2	29.6	21.5	65	0.4	22.4	11.8	523	2.94	20.8	2.3	7.1	6.7	46	0.3	2.1	4.6	71	0.41	0.079
1821524	Soil	1.4	27.2	9.0	69	<0.1	27.7	13.6	518	3.02	9.2	1.6	18.3	3.8	42	0.3	0.6	0.7	80	0.32	0.067
1821505	Soil	1.2	29.0	33.0	76	0.9	20.9	10.8	432	2.88	65.1	2.3	18.5	6.7	48	0.9	8.4	5.2	67	0.36	0.078
1821502	Soil	1.5	22.3	26.1	71	0.2	15.4	8.9	462	2.90	31.1	1.8	27.1	3.4	106	0.6	4.5	2.7	67	0.26	0.060
1821540	Soil	2.0	26.1	11.9	67	0.1	23.3	13.3	619	3.11	12.0	3.9	3.4	5.4	48	0.2	0.7	0.6	78	0.33	0.075
1821539	Soil	0.8	23.6	9.0	60	<0.1	27.7	12.8	513	2.95	9.0	1.5	2.8	4.4	29	0.2	0.5	0.3	75	0.26	0.040
1821519	Soil	2.6	22.8	13.3	59	0.2	19.7	11.1	612	2.78	13.3	4.8	5.4	8.5	50	0.1	1.6	0.6	63	0.39	0.075
1821517	Soil	1.3	28.9	18.3	74	0.1	20.6	11.3	569	3.00	11.6	1.9	4.1	6.4	249	0.3	1.4	0.7	60	0.40	0.082
1821525	Soil	1.5	26.4	9.5	68	<0.1	27.1	13.0	521	3.02	9.6	1.9	5.8	4.0	43	0.3	0.5	0.8	79	0.31	0.071
1821508	Soil	1.6	29.2	30.3	74	0.6	23.4	13.8	603	3.46	48.5	2.0	9.9	4.1	33	0.6	3.8	3.9	75	0.24	0.078
1821529	Soil	2.2	37.6	10.7	63	<0.1	25.7	11.6	501	3.09	16.8	2.2	5.6	6.5	53	0.1	0.7	1.3	67	0.29	0.063
1821513	Soil	4.8	43.0	63.7	151	0.9	22.4	12.9	700	3.26	99.0	3.2	10.3	3.5	55	1.7	6.3	11.6	78	0.29	0.084
1821506	Soil	1.3	26.6	36.4	83	1.1	19.1	10.3	421	2.73	67.4	2.3	33.3	5.8	52	0.8	8.8	6.1	59	0.37	0.077
1821531	Soil	5.0	60.8	21.5	64	0.5	17.4	11.5	669	2.99	77.0	3.6	16.1	8.5	59	<0.1	1.0	3.5	64	0.54	0.091
1821516	Soil	1.6	26.8	20.1	62	0.4	20.2	10.5	466	2.93	11.3	2.6	14.0	6.2	70	0.1	0.9	1.9	70	0.44	0.071
1821543	Soil	1.5	21.5	20.3	68	0.1	24.3	11.1	547	3.38	15.7	1.2	17.4	3.1	18	0.2	0.8	1.2	80	0.17	0.036
1821509	Soil	1.5	28.0	25.5	65	0.2	23.3	11.7	518	3.18	21.9	1.5	20.7	4.1	30	0.3	1.9	3.4	71	0.25	0.082
1821512	Soil	2.1	27.9	52.4	114	0.9	16.0	9.4	437	2.66	64.1	2.7	19.8	7.2	54	0.9	4.2	9.3	58	0.37	0.084
1821532	Soil	4.5	46.6	24.0	63	0.6	19.7	15.5	739	2.91	74.4	2.7	10.4	8.0	40	0.2	0.9	2.7	63	0.43	0.087
1821537	Soil	1.2	25.4	13.2	67	<0.1	25.2	11.0	523	3.19	25.3	1.3	5.4	3.1	33	0.2	0.6	0.9	70	0.25	0.062
1821533	Soil	3.9	35.3	28.9	63	1.8	24.8	11.7	492	3.01	172.5	1.7	25.8	3.1	27	0.2	1.2	12.8	63	0.26	0.071
1821536	Soil	1.7	24.7	16.0	74	<0.1	24.4	10.8	622	3.52	37.3	1.4	6.5	1.7	22	0.3	0.7	0.7	78	0.20	0.060
1821538	Soil	1.5	33.1	12.0	66	0.2	23.9	11.8	689	3.31	17.8	3.5	30.0	6.0	56	0.1	0.9	6.1	70	0.29	0.072
1821528	Soil	1.7	27.9	11.5	66	0.1	23.7	11.5	723	3.25	10.9	2.1	4.0	2.2	35	0.1	0.6	0.5	75	0.22	0.077



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1821713	Soil	13	26	0.57	113	0.095	1	1.70	0.019	0.07	0.5	0.05	3.1	0.2	<0.05	5	<0.5	<0.2
1821712	Soil	15	29	0.54	117	0.091	1	1.70	0.017	0.07	0.3	0.05	3.1	0.1	<0.05	5	<0.5	<0.2
1821544	Soil	16	31	0.56	112	0.094	2	1.82	0.020	0.07	0.6	0.05	3.5	0.2	<0.05	5	0.6	<0.2
1821520	Soil	17	26	0.60	189	0.090	<1	1.73	0.013	0.07	0.3	0.02	3.6	0.1	<0.05	5	<0.5	<0.2
1821541	Soil	14	35	0.63	131	0.102	2	2.09	0.011	0.07	0.3	0.04	4.0	0.2	<0.05	6	0.5	<0.2
1821542	Soil	23	39	0.71	182	0.141	2	2.21	0.017	0.08	0.2	0.04	7.0	0.2	<0.05	6	<0.5	<0.2
1821510	Soil	17	32	0.53	140	0.103	2	1.68	0.018	0.06	0.3	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
1821524	Soil	13	35	0.62	149	0.121	1	1.98	0.014	0.07	0.2	0.05	3.8	0.2	<0.05	6	<0.5	<0.2
1821505	Soil	15	29	0.58	132	0.088	<1	1.69	0.014	0.06	0.4	0.03	3.5	0.1	<0.05	5	<0.5	<0.2
1821502	Soil	13	26	0.44	170	0.064	<1	1.77	0.010	0.05	0.2	0.03	2.6	0.2	<0.05	6	<0.5	<0.2
1821540	Soil	21	35	0.64	188	0.119	2	1.85	0.017	0.09	0.2	0.04	4.8	0.2	<0.05	6	<0.5	<0.2
1821539	Soil	13	36	0.66	149	0.116	2	1.99	0.016	0.06	0.3	0.03	4.3	0.1	<0.05	6	<0.5	<0.2
1821519	Soil	21	29	0.64	213	0.086	1	1.92	0.014	0.08	0.2	0.05	4.5	0.2	<0.05	6	<0.5	<0.2
1821517	Soil	17	26	0.65	386	0.069	<1	2.05	0.016	0.06	0.4	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
1821525	Soil	13	34	0.61	149	0.112	1	1.98	0.014	0.06	0.1	0.04	3.7	0.2	<0.05	6	<0.5	<0.2
1821508	Soil	14	36	0.57	128	0.083	2	2.32	0.011	0.06	0.2	0.05	3.6	0.2	<0.05	7	0.7	<0.2
1821529	Soil	15	40	0.66	180	0.111	<1	2.52	0.013	0.08	0.2	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
1821513	Soil	16	36	0.59	159	0.069	2	2.05	0.011	0.08	0.2	0.05	3.6	0.2	<0.05	7	<0.5	<0.2
1821506	Soil	13	26	0.60	116	0.075	3	1.71	0.017	0.06	0.3	0.03	3.4	0.2	<0.05	5	<0.5	<0.2
1821531	Soil	27	26	0.63	220	0.074	2	1.91	0.023	0.10	0.3	0.03	5.5	0.2	<0.05	5	<0.5	<0.2
1821516	Soil	16	32	0.74	182	0.107	2	2.05	0.020	0.08	0.3	0.04	5.0	0.2	<0.05	6	<0.5	<0.2
1821543	Soil	10	35	0.53	91	0.097	3	2.02	0.010	0.06	0.2	0.03	3.0	0.1	<0.05	7	<0.5	<0.2
1821509	Soil	12	33	0.54	119	0.086	3	2.15	0.012	0.06	0.3	0.03	3.2	0.2	<0.05	6	<0.5	<0.2
1821512	Soil	16	24	0.53	118	0.077	3	1.57	0.015	0.06	0.3	0.04	3.3	0.1	<0.05	5	<0.5	<0.2
1821532	Soil	19	26	0.61	510	0.085	2	1.79	0.021	0.08	0.4	0.03	4.3	0.1	<0.05	5	<0.5	<0.2
1821537	Soil	12	33	0.67	126	0.088	3	2.31	0.013	0.08	0.2	0.03	3.9	0.1	<0.05	6	<0.5	<0.2
1821533	Soil	12	30	0.69	137	0.078	3	2.40	0.015	0.08	0.2	0.07	3.9	0.2	<0.05	6	<0.5	<0.2
1821536	Soil	12	32	0.57	106	0.070	3	2.15	0.011	0.07	0.2	0.04	2.5	0.2	<0.05	8	<0.5	<0.2
1821538	Soil	24	31	0.72	213	0.080	3	2.34	0.014	0.09	0.3	0.04	5.4	0.2	<0.05	6	<0.5	<0.2
1821528	Soil	11	37	0.65	128	0.092	3	2.52	0.014	0.08	0.1	0.07	4.1	0.2	0.05	7	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1821523	Soil	3.1	42.4	13.1	64	0.4	19.2	15.0	938	3.32	21.8	5.3	10.4	6.5	63	0.1	0.9	1.2	63	0.47	0.096
1821511	Soil	1.3	21.1	24.4	63	0.2	17.9	8.3	357	2.82	44.6	1.3	21.0	4.0	31	0.5	4.1	5.0	72	0.24	0.059
1821527	Soil	1.5	27.3	17.6	58	<0.1	23.2	12.1	591	3.23	18.6	1.4	7.1	3.1	42	0.2	0.8	1.6	74	0.21	0.048
1821534	Soil	0.9	25.0	10.2	54	<0.1	26.2	10.4	472	2.96	24.2	1.1	14.1	4.6	22	0.1	0.4	0.9	82	0.29	0.041
1821521	Soil	3.0	26.9	17.7	61	0.2	14.5	12.7	1057	3.02	23.4	2.8	8.9	9.9	106	0.1	3.5	1.0	55	0.42	0.073
1821535	Soil	1.6	40.3	20.3	73	0.3	24.3	13.7	508	2.91	49.2	1.9	7.7	5.2	58	0.2	0.8	1.5	62	0.39	0.088
1821514	Soil	8.1	22.9	74.1	88	1.0	11.4	15.2	1339	2.83	59.2	6.0	22.6	12.4	82	0.7	5.5	4.2	33	0.58	0.063
1821503	Soil	1.7	35.0	51.4	99	1.3	19.9	11.2	663	3.05	53.8	3.1	14.3	3.3	81	1.1	4.9	3.2	65	0.53	0.079
1821501	Soil	1.3	25.0	38.6	120	0.5	21.1	12.0	674	3.03	28.7	1.9	32.6	5.4	137	0.9	3.2	1.4	61	0.47	0.091
1821518	Soil	2.5	28.4	15.1	79	0.4	22.2	12.6	843	3.47	14.2	5.8	54.4	7.0	60	0.2	1.3	0.8	75	0.47	0.101
1821507	Soil	1.8	31.7	30.9	79	0.9	18.2	11.3	656	2.84	55.8	2.9	35.2	6.2	134	0.6	5.3	4.1	58	0.43	0.073
1821515	Soil	1.1	32.0	18.8	63	0.4	20.8	10.7	466	3.03	11.4	2.9	21.3	7.7	84	0.1	1.0	1.8	70	0.49	0.079
1821530	Soil	2.6	23.0	15.8	62	0.1	17.2	9.2	527	2.99	41.0	1.6	6.2	2.3	66	0.1	1.0	3.0	71	0.20	0.057
1821504	Soil	1.7	34.6	84.8	166	2.9	12.1	13.3	1028	2.76	34.2	3.6	22.5	11.1	94	2.1	8.8	2.2	45	0.56	0.087
1821526	Soil	1.9	29.7	18.7	69	0.3	23.7	13.8	781	3.26	17.1	3.8	6.0	6.5	87	0.2	0.9	1.5	72	0.35	0.072
1821522	Soil	2.3	32.6	14.8	68	0.4	25.3	14.9	881	3.29	20.8	4.4	26.8	6.2	53	0.2	1.1	1.2	71	0.36	0.082
1821610	Soil	2.7	31.7	38.7	142	0.9	16.3	12.7	491	3.56	182.2	3.7	84.9	6.1	153	2.0	16.0	6.7	58	0.44	0.083
1821608	Soil	1.6	30.4	21.3	62	0.2	21.6	9.8	424	3.48	28.1	1.1	22.5	2.8	29	0.3	3.4	5.5	83	0.19	0.044
1821607	Soil	3.5	23.1	23.4	77	0.5	12.6	10.1	554	2.76	85.9	2.2	33.1	3.2	273	0.6	8.5	3.4	51	0.57	0.063
1821612	Soil	1.9	71.7	74.2	65	1.3	21.8	17.2	631	3.28	42.9	2.6	40.0	7.6	68	0.4	2.2	25.4	64	0.51	0.094
1821603	Soil	2.5	24.0	21.2	64	0.6	18.0	8.3	333	2.91	55.8	1.8	25.2	2.6	38	0.6	7.3	2.6	66	0.24	0.065
1821611	Soil	1.2	37.4	27.3	65	0.8	21.7	12.4	458	2.98	27.8	2.0	11.1	4.2	43	0.4	1.5	4.3	66	0.41	0.082
1821609	Soil	1.5	20.0	13.3	48	0.2	17.8	7.7	298	3.01	11.0	1.0	12.6	1.8	16	0.2	0.7	1.2	70	0.15	0.074
1821606	Soil	3.5	29.4	20.0	65	0.9	17.6	11.2	414	3.06	75.4	2.4	57.3	5.8	46	0.5	6.2	3.0	56	0.35	0.060
1821602	Soil	0.6	8.3	16.6	39	0.2	5.3	8.7	577	2.12	13.2	2.3	11.5	11.9	103	0.2	1.1	0.1	38	0.90	0.075
1821605	Soil	1.5	23.7	13.8	62	0.2	22.5	9.9	373	3.33	32.6	1.2	12.0	3.0	27	0.4	2.7	1.0	83	0.27	0.056
1821604	Soil	2.2	30.4	23.4	71	0.7	19.6	10.8	425	2.88	64.4	2.2	14.5	6.6	53	0.8	8.4	7.1	63	0.41	0.075
1821601	Soil	1.1	25.6	12.9	70	0.2	30.2	13.9	590	3.50	24.9	1.5	7.3	4.6	54	0.3	1.9	0.5	72	0.39	0.079
1821623	Soil	1.3	26.6	16.9	69	0.1	26.5	12.4	557	3.23	29.8	1.4	3.8	3.6	42	0.3	0.7	1.5	74	0.32	0.064
1821624	Soil	1.0	27.0	14.6	68	<0.1	27.1	12.5	539	3.25	30.7	1.3	3.6	2.0	24	0.1	0.6	1.8	73	0.24	0.061



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Project: Rude
Report Date: July 17, 2020

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CERTIFICATE OF ANALYSIS

WHI2000079.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1821523	Soil	19	24	0.75	269	0.056	3	2.02	0.020	0.10	0.2	0.04	4.7	0.2	<0.05	6	<0.5	<0.2
1821511	Soil	11	27	0.48	89	0.094	2	1.42	0.013	0.06	0.2	0.04	2.7	0.1	<0.05	6	<0.5	<0.2
1821527	Soil	11	32	0.58	148	0.099	2	1.95	0.011	0.08	0.2	0.04	3.4	0.1	<0.05	6	<0.5	<0.2
1821534	Soil	12	35	0.62	101	0.121	4	1.89	0.016	0.06	0.3	0.05	3.9	0.1	<0.05	5	<0.5	<0.2
1821521	Soil	22	19	0.76	345	0.026	1	2.58	0.011	0.08	0.2	0.02	4.5	0.3	<0.05	7	<0.5	<0.2
1821535	Soil	14	29	0.64	155	0.091	2	2.07	0.018	0.08	0.4	0.04	4.2	0.1	<0.05	5	<0.5	<0.2
1821514	Soil	18	14	0.75	248	0.015	2	1.87	0.009	0.07	0.2	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
1821503	Soil	15	29	0.57	163	0.065	2	2.06	0.018	0.08	0.2	0.07	3.7	0.2	<0.05	7	<0.5	<0.2
1821501	Soil	19	31	0.66	186	0.079	3	2.02	0.017	0.09	0.2	0.05	4.2	0.1	<0.05	6	<0.5	<0.2
1821518	Soil	22	32	0.80	258	0.090	3	2.38	0.019	0.11	0.3	0.05	6.3	0.2	<0.05	7	<0.5	<0.2
1821507	Soil	19	25	0.57	151	0.074	2	1.89	0.018	0.07	0.3	0.03	3.9	0.1	<0.05	6	<0.5	<0.2
1821515	Soil	21	34	0.79	237	0.119	3	2.34	0.021	0.09	0.3	0.03	6.3	0.2	<0.05	7	<0.5	<0.2
1821530	Soil	10	28	0.52	186	0.060	2	1.92	0.010	0.06	0.1	0.05	2.9	0.2	<0.05	7	<0.5	<0.2
1821504	Soil	22	17	0.64	231	0.019	<1	1.93	0.012	0.09	0.2	0.02	4.6	0.2	<0.05	5	<0.5	0.2
1821526	Soil	19	30	0.74	278	0.093	3	2.30	0.018	0.10	0.2	0.05	4.9	0.2	<0.05	6	<0.5	<0.2
1821522	Soil	19	31	0.72	267	0.078	2	2.39	0.019	0.08	0.3	0.04	4.9	0.2	<0.05	6	<0.5	<0.2
1821610	Soil	12	25	0.61	100	0.088	2	1.97	0.022	0.08	0.3	0.05	3.1	0.2	<0.05	6	<0.5	<0.2
1821608	Soil	11	33	0.49	78	0.107	2	2.13	0.012	0.05	0.2	0.06	3.0	0.1	<0.05	8	<0.5	<0.2
1821607	Soil	7	17	0.51	181	0.076	1	2.15	0.019	0.10	0.2	0.04	2.0	0.3	<0.05	7	<0.5	<0.2
1821612	Soil	15	29	0.62	149	0.087	2	2.07	0.025	0.10	0.2	0.02	3.7	0.2	<0.05	6	<0.5	0.2
1821603	Soil	10	29	0.54	90	0.084	2	1.96	0.015	0.06	0.2	0.05	2.9	0.2	<0.05	7	<0.5	<0.2
1821611	Soil	12	30	0.61	131	0.080	2	2.36	0.020	0.07	0.2	0.06	4.0	0.2	<0.05	7	<0.5	<0.2
1821609	Soil	10	36	0.45	82	0.071	3	2.57	0.010	0.05	0.1	0.06	3.7	0.2	<0.05	7	0.7	<0.2
1821606	Soil	12	25	0.61	85	0.075	1	2.12	0.016	0.07	0.2	0.03	3.2	0.2	<0.05	6	0.7	<0.2
1821602	Soil	27	8	0.92	136	0.002	<1	3.72	0.009	0.08	<0.1	<0.01	4.1	0.2	<0.05	7	<0.5	<0.2
1821605	Soil	12	34	0.58	88	0.117	2	2.40	0.015	0.06	0.2	0.04	3.7	0.1	<0.05	7	<0.5	<0.2
1821604	Soil	14	28	0.61	99	0.107	2	1.91	0.024	0.07	0.3	0.02	4.0	0.1	<0.05	6	0.5	<0.2
1821601	Soil	16	42	0.78	194	0.091	1	2.97	0.018	0.08	0.1	0.03	5.1	0.2	<0.05	7	<0.5	<0.2
1821623	Soil	13	33	0.71	141	0.095	3	2.27	0.017	0.09	0.2	0.04	4.0	0.2	<0.05	7	<0.5	<0.2
1821624	Soil	12	36	0.71	136	0.079	2	2.65	0.015	0.07	0.2	0.02	4.0	0.1	<0.05	7	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

WHI20000079.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1821621	Soil	0.9	23.4	18.5	53	0.3	24.8	8.9	395	2.73	92.5	0.8	8.0	3.2	29	0.2	1.2	5.1	70	0.36	0.059
1821615	Soil	2.5	69.5	128.1	64	1.1	20.1	18.4	790	3.36	75.9	7.3	46.1	10.1	176	0.5	3.1	12.8	68	0.50	0.098
1821616	Soil	1.3	37.8	100.2	65	0.4	25.8	12.2	452	3.09	15.0	1.3	139.0	3.4	28	0.2	1.6	11.0	78	0.29	0.039
1821622	Soil	1.0	24.9	12.5	59	0.1	23.0	9.5	438	2.88	35.2	1.5	5.1	3.2	29	0.2	0.6	0.6	68	0.30	0.061
1821617	Soil	1.3	29.8	62.6	59	0.4	27.1	14.4	515	3.37	14.2	1.1	117.0	2.8	24	0.2	1.2	7.5	72	0.23	0.048
1821618	Soil	2.2	75.0	384.7	114	1.4	29.1	13.2	525	3.30	20.4	1.2	18.9	2.5	53	0.5	9.2	4.4	71	0.37	0.073
1821613	Soil	1.7	54.6	44.7	82	0.8	24.9	12.1	575	3.00	26.7	1.9	22.5	4.2	37	0.3	1.5	7.7	70	0.35	0.093
1821619	Soil	0.8	28.4	33.3	62	0.1	28.6	13.8	495	3.07	12.2	0.8	11.9	3.1	44	0.1	0.9	3.0	66	0.30	0.048
1821614	Soil	0.8	25.8	26.4	55	0.2	28.8	12.2	481	2.79	13.8	1.0	365.0	3.4	29	0.3	0.9	2.2	69	0.33	0.047
1821620	Soil	1.6	20.6	11.5	60	<0.1	24.9	10.7	463	3.18	12.4	1.0	4.8	2.2	22	0.2	0.6	0.5	74	0.26	0.060
1821639	Soil	1.4	33.2	45.0	67	0.9	21.0	12.2	619	2.85	25.0	2.4	61.3	5.7	60	0.4	1.6	9.1	67	0.43	0.091
1821632	Soil	0.9	22.8	17.3	63	0.1	24.8	12.4	489	2.86	12.4	0.9	51.6	2.7	62	0.3	0.8	0.7	67	0.25	0.047
1821635	Soil	0.9	22.7	10.1	56	0.1	27.5	10.1	471	2.85	20.0	1.0	5.8	3.1	21	0.2	0.5	0.7	66	0.26	0.050
1821638	Soil	0.8	40.4	17.4	56	0.3	23.4	12.7	575	2.95	11.5	1.1	48.0	5.7	107	0.3	1.0	3.2	66	0.40	0.063
1821633	Soil	3.6	64.1	25.3	81	0.4	24.5	13.9	856	3.83	28.1	5.2	5.1	2.9	49	0.1	1.2	1.2	79	0.40	0.093
1821628	Soil	2.9	36.6	22.6	70	0.7	24.2	13.4	671	3.51	74.8	3.7	10.0	2.4	42	0.2	1.1	3.0	77	0.36	0.093
1821630	Soil	1.1	23.8	13.7	62	0.2	22.3	10.9	460	2.95	10.4	1.6	4.4	3.0	37	0.2	0.7	0.5	69	0.26	0.056
1821637	Soil	1.0	26.6	22.7	57	<0.1	21.2	13.1	574	2.78	15.4	1.3	4.7	4.9	42	0.2	1.3	1.4	61	0.25	0.044
1821627	Soil	1.3	22.4	11.4	63	<0.1	24.1	10.6	468	3.12	29.7	1.3	3.3	2.7	21	0.2	0.6	0.9	66	0.20	0.052
1821634	Soil	3.2	23.8	18.3	61	0.5	17.5	7.2	421	2.93	25.4	1.3	5.2	0.5	28	0.2	0.8	2.8	77	0.23	0.098
1821629	Soil	2.5	34.4	17.9	75	0.4	25.7	12.1	647	3.56	39.0	3.3	4.6	3.1	71	0.2	1.1	1.7	72	0.47	0.081
1821631	Soil	1.0	28.4	36.8	60	0.2	22.8	12.3	540	3.10	12.8	2.0	8.1	6.4	83	0.2	0.7	0.8	74	0.46	0.079
1821625	Soil	1.3	22.8	14.6	64	<0.1	22.6	10.5	510	3.12	24.4	1.1	6.6	1.9	25	0.2	0.7	1.7	72	0.23	0.048
1821626	Soil	1.3	27.4	15.7	65	0.4	22.3	11.7	594	3.13	46.4	1.8	17.7	5.1	32	0.2	0.8	2.2	69	0.39	0.094
1821636	Soil	1.3	30.0	13.2	62	0.3	22.8	13.4	619	3.18	28.9	1.7	7.5	4.0	84	0.3	0.9	2.1	59	0.39	0.052



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1821621	Soil	12	30	0.55	100	0.106	2	1.82	0.021	0.07	0.3	0.04	3.6	0.1	<0.05	5	<0.5	<0.2
1821615	Soil	23	27	0.64	180	0.091	1	2.40	0.030	0.10	0.3	0.04	4.8	0.2	<0.05	6	<0.5	0.2
1821616	Soil	14	35	0.58	97	0.102	2	2.03	0.017	0.05	0.4	0.05	3.8	0.1	<0.05	5	<0.5	<0.2
1821622	Soil	15	33	0.65	121	0.092	1	2.20	0.020	0.07	0.2	0.04	4.1	0.1	<0.05	6	<0.5	<0.2
1821617	Soil	11	38	0.60	107	0.087	2	2.45	0.015	0.05	0.2	0.05	4.0	0.2	<0.05	6	<0.5	<0.2
1821618	Soil	12	37	0.65	103	0.102	2	2.30	0.017	0.07	0.2	0.07	3.8	0.1	<0.05	6	<0.5	<0.2
1821613	Soil	14	32	0.59	126	0.098	1	2.00	0.022	0.08	0.3	0.08	3.5	0.2	<0.05	6	<0.5	<0.2
1821619	Soil	12	36	0.72	110	0.105	1	2.63	0.020	0.09	0.2	0.03	4.8	0.2	<0.05	6	<0.5	<0.2
1821614	Soil	10	33	0.64	121	0.118	1	2.02	0.022	0.06	0.2	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
1821620	Soil	12	35	0.61	123	0.090	2	2.21	0.015	0.06	0.2	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
1821639	Soil	16	30	0.54	131	0.095	<1	1.95	0.022	0.08	0.7	0.06	3.4	0.1	<0.05	5	<0.5	<0.2
1821632	Soil	12	33	0.61	114	0.088	2	2.29	0.015	0.07	0.1	0.05	3.6	0.1	<0.05	6	<0.5	<0.2
1821635	Soil	14	33	0.61	97	0.109	1	2.29	0.018	0.06	0.2	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
1821638	Soil	13	31	0.67	187	0.110	2	2.25	0.021	0.09	0.2	0.03	4.3	0.2	<0.05	6	<0.5	<0.2
1821633	Soil	30	37	0.74	213	0.054	2	3.03	0.016	0.10	0.2	0.06	6.1	0.2	<0.05	9	0.8	<0.2
1821628	Soil	21	35	0.73	175	0.070	<1	2.66	0.019	0.09	0.2	0.07	4.7	0.2	0.07	8	<0.5	<0.2
1821630	Soil	14	32	0.66	141	0.091	1	2.34	0.017	0.06	0.2	0.04	3.8	0.2	<0.05	6	<0.5	<0.2
1821637	Soil	15	26	0.61	161	0.085	2	2.09	0.015	0.07	0.2	0.03	3.6	0.2	<0.05	6	<0.5	<0.2
1821627	Soil	12	32	0.59	100	0.088	2	2.51	0.014	0.07	0.2	0.03	3.5	0.1	<0.05	7	<0.5	<0.2
1821634	Soil	10	28	0.39	124	0.055	<1	1.49	0.014	0.08	0.1	0.05	2.3	0.1	0.06	7	0.5	<0.2
1821629	Soil	19	36	0.72	233	0.054	1	2.77	0.012	0.14	0.2	0.05	4.7	0.2	<0.05	8	0.7	<0.2
1821631	Soil	19	37	0.70	192	0.115	2	2.45	0.021	0.09	0.2	0.04	5.9	0.2	<0.05	6	<0.5	<0.2
1821625	Soil	12	31	0.56	120	0.080	2	2.01	0.014	0.07	0.2	0.03	3.3	0.1	<0.05	7	<0.5	<0.2
1821626	Soil	15	30	0.67	138	0.090	2	2.20	0.019	0.09	0.2	0.04	4.0	0.2	<0.05	6	<0.5	<0.2
1821636	Soil	17	30	0.67	215	0.058	2	2.58	0.019	0.10	0.3	0.02	4.0	0.2	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI20000079.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1821554	Soil	2.3	24.1	21.8	61	0.5	19.9	13.6	414	3.11	49.2	3.0	30.8	6.8	81	0.4	3.1	2.3	61	0.46	0.076
REP 1821554	QC	2.4	24.3	21.5	64	0.5	20.6	13.5	402	3.16	48.9	3.0	27.3	6.9	81	0.3	3.0	2.0	61	0.43	0.073
1821668	Soil	9.7	335.8	743.2	86	14.1	30.9	24.7	696	3.85	101.3	8.7	1166.9	6.8	75	0.9	11.0	93.7	74	0.44	0.101
REP 1821668	QC	9.6	321.4	711.9	80	13.4	29.1	23.1	677	3.74	96.0	8.1	1744.9	6.2	73	0.8	10.5	95.0	74	0.40	0.095
1821713	Soil	1.5	29.7	33.1	82	0.9	18.0	11.3	450	2.95	62.2	2.1	35.2	7.2	72	0.7	3.4	5.1	67	0.45	0.070
REP 1821713	QC	1.5	28.1	34.8	82	0.9	19.1	11.6	458	2.73	59.6	2.2	290.0	7.0	74	0.9	3.6	4.6	66	0.42	0.072
1821514	Soil	8.1	22.9	74.1	88	1.0	11.4	15.2	1339	2.83	59.2	6.0	22.6	12.4	82	0.7	5.5	4.2	33	0.58	0.063
REP 1821514	QC	7.9	24.0	72.8	90	1.0	12.0	15.8	1366	2.81	61.5	6.2	21.8	12.7	80	0.8	5.2	3.2	33	0.57	0.065
1821620	Soil	1.6	20.6	11.5	60	<0.1	24.9	10.7	463	3.18	12.4	1.0	4.8	2.2	22	0.2	0.6	0.5	74	0.26	0.060
REP 1821620	QC	1.5	21.7	11.4	62	<0.1	24.9	10.2	457	3.15	13.0	1.0	3.6	2.2	21	0.2	0.6	0.4	73	0.25	0.057
Reference Materials																					
STD BVGEO01	Standard	11.2	4118.7	184.3	1626	2.5	168.1	24.6	657	3.80	120.1	3.7	219.2	13.7	59	6.7	3.4	25.0	75	1.38	0.072
STD BVGEO01	Standard	10.3	4182.7	177.8	1659	2.5	165.5	23.2	678	3.74	113.8	3.4	225.0	13.3	54	6.3	3.3	23.8	70	1.30	0.068
STD DS11	Standard	15.2	146.1	142.8	350	1.7	87.3	14.9	938	3.22	44.3	2.7	61.4	8.2	73	2.6	8.3	11.9	54	1.06	0.070
STD DS11	Standard	14.9	147.4	140.1	345	1.7	81.9	14.4	940	3.10	42.3	2.6	66.6	7.9	68	2.4	7.8	12.2	54	1.03	0.068
STD DS11	Standard	15.2	136.9	131.5	340	1.7	77.9	13.1	911	3.19	41.0	2.5	68.1	7.4	69	2.4	7.8	11.1	48	1.07	0.069
STD DS11	Standard	14.3	146.8	132.8	347	1.8	79.6	13.7	1027	3.22	43.5	2.5	64.5	7.4	67	2.4	8.8	11.3	51	1.04	0.067
STD OREAS262	Standard	0.7	116.0	58.2	156	0.5	69.0	29.3	489	3.24	36.3	1.3	60.0	9.4	38	0.7	4.4	1.1	22	3.02	0.037
STD OREAS262	Standard	0.6	110.9	58.5	152	0.5	63.7	26.6	487	3.39	36.4	1.2	59.3	9.5	36	0.6	4.8	1.1	22	2.93	0.039
STD OREAS262	Standard	0.7	116.1	61.7	154	0.5	68.8	29.4	489	3.43	37.4	1.3	60.6	9.9	38	0.8	5.0	1.1	23	2.99	0.037
STD OREAS262	Standard	0.6	112.8	54.7	151	0.5	62.3	25.8	517	3.29	35.8	1.1	57.6	8.8	35	0.6	4.2	1.0	22	3.05	0.037
STD OREAS262	Standard	0.7	110.7	55.2	152	0.5	63.1	26.0	481	3.34	36.7	1.2	56.7	9.4	36	0.6	4.5	1.0	21	3.01	0.039
STD OREAS262	Standard	0.7	112.8	56.3	156	0.5	63.1	27.5	542	3.48	37.6	1.2	73.6	9.5	35	0.7	6.3	1.0	24	2.91	0.037
STD BVGEO01 Expected		11.2	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	3.39	25.6	73	1.3219	0.0727
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
Pulp Duplicates																		
1821554 Soil	15	27	0.62	95	0.085	<1	2.42	0.015	0.07	0.1	0.04	3.6	0.2	<0.05	6	<0.5	<0.2	
REP 1821554 QC	15	28	0.60	96	0.084	<1	2.40	0.015	0.07	0.2	0.05	3.5	0.2	<0.05	6	<0.5	<0.2	
1821668 Soil	18	35	0.63	197	0.088	2	2.15	0.018	0.08	0.5	0.07	4.2	0.2	<0.05	6	<0.5	0.3	
REP 1821668 QC	18	34	0.60	189	0.085	2	2.09	0.017	0.08	0.4	0.08	4.1	0.2	<0.05	6	0.6	0.2	
1821713 Soil	13	26	0.57	113	0.095	1	1.70	0.019	0.07	0.5	0.05	3.1	0.2	<0.05	5	<0.5	<0.2	
REP 1821713 QC	13	27	0.57	117	0.093	2	1.67	0.019	0.06	0.4	0.05	3.1	0.1	<0.05	5	<0.5	<0.2	
1821514 Soil	18	14	0.75	248	0.015	2	1.87	0.009	0.07	0.2	0.02	3.6	0.2	<0.05	5	<0.5	<0.2	
REP 1821514 QC	18	14	0.76	244	0.014	<1	2.00	0.009	0.07	0.2	0.02	3.6	0.1	<0.05	6	<0.5	<0.2	
1821620 Soil	12	35	0.61	123	0.090	2	2.21	0.015	0.06	0.2	0.02	3.7	0.2	<0.05	6	<0.5	<0.2	
REP 1821620 QC	12	35	0.61	126	0.089	2	2.27	0.015	0.06	0.2	0.02	3.6	0.1	<0.05	6	<0.5	<0.2	
Reference Materials																		
STD BVGEO01 Standard	28	198	1.36	302	0.243	2	2.37	0.200	0.91	5.1	0.10	6.5	0.6	0.72	7	4.3	1.0	
STD BVGEO01 Standard	26	180	1.27	291	0.221	4	2.22	0.186	0.84	5.0	0.09	5.7	0.6	0.65	7	4.0	1.0	
STD DS11 Standard	20	64	0.86	388	0.102	9	1.18	0.073	0.39	3.1	0.28	3.4	5.1	0.27	5	2.2	4.7	
STD DS11 Standard	19	63	0.85	362	0.100	8	1.15	0.072	0.39	3.1	0.29	3.3	4.9	0.28	5	2.2	4.9	
STD DS11 Standard	19	57	0.84	388	0.094	7	1.16	0.074	0.38	2.9	0.25	3.3	4.8	0.25	5	1.8	4.7	
STD DS11 Standard	19	60	0.84	376	0.093	5	1.18	0.082	0.41	3.2	0.27	3.4	5.0	0.25	5	2.7	4.7	
STD OREAS262 Standard	18	46	1.16	256	0.003	4	1.33	0.068	0.30	0.2	0.15	3.3	0.5	0.25	4	<0.5	0.2	
STD OREAS262 Standard	16	43	1.17	249	0.003	2	1.24	0.067	0.27	0.2	0.17	3.4	0.5	0.27	4	<0.5	0.2	
STD OREAS262 Standard	19	46	1.12	259	0.003	4	1.30	0.065	0.30	0.2	0.16	3.2	0.5	0.25	4	<0.5	0.2	
STD OREAS262 Standard	15	43	1.14	244	0.003	3	1.30	0.067	0.28	0.2	0.16	3.2	0.4	0.24	4	<0.5	0.3	
STD OREAS262 Standard	17	43	1.23	261	0.003	4	1.47	0.068	0.31	0.2	0.17	3.3	0.5	0.24	4	<0.5	0.3	
STD OREAS262 Standard	18	47	1.20	261	0.004	4	1.33	0.072	0.31	0.3	0.17	3.5	0.5	0.25	4	<0.5	0.2	
STD BVGEO01 Expected	25.9	187	1.2963	260	0.233	3.8	2.347	0.1924	0.89	5.3	0.1	5.97	0.62	0.6655	7.37	4.84	1.02	
STD DS11 Expected	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56	
STD OREAS262 Expected	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	4.1	0.4	0.23	
BLK Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	



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Project: Rude
Report Date: July 17, 2020

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2