



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**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: August 24, 2016
Report Date: September 15, 2016
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CERTIFICATE OF ANALYSIS

WHI16000215.1

CLIENT JOB INFORMATION

Project: ROY
Shipment ID: ROY-2016-08-23-Rock
P.O. Number
Number of Samples: 64

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 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
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	64	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	64	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	64	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	64	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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Method Analyte	Unit	WGHT	FA430	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1419551	Rock	1.89	<0.005	2.5	6.6	7.5	32	<0.1	3.8	4.5	480	2.25	9.6	2.1	13.2	32	<0.1	0.5	0.2	34	0.77
1419552	Rock	1.16	0.031	2.3	8.0	7.3	14	<0.1	2.2	1.6	172	0.81	12.1	2.0	14.9	15	<0.1	0.7	2.3	5	0.54
1419553	Rock	1.51	0.027	2.9	19.7	11.8	19	0.2	2.1	5.4	208	1.11	50.1	9.9	15.0	16	0.2	1.7	3.1	3	0.77
1419554	Rock	1.59	0.042	2.4	16.1	49.8	28	0.9	2.0	2.7	219	1.08	117.7	18.2	19.5	14	0.5	3.8	20.4	4	0.74
1419555	Rock	1.77	0.005	1.9	9.4	8.8	12	<0.1	1.8	2.8	160	0.77	19.1	1.7	15.7	15	<0.1	0.4	0.5	2	0.53
1419556	Rock	1.52	0.005	2.2	22.6	11.6	32	0.1	3.5	6.1	457	2.08	32.5	4.4	16.1	26	0.2	1.6	1.1	23	1.12
1419557	Rock	1.97	0.032	1.7	26.8	11.0	30	0.1	2.5	8.4	464	2.07	18.7	4.3	13.9	32	0.2	0.9	1.1	19	1.40
1419558	Rock	2.50	0.070	2.1	58.2	15.3	37	0.2	2.9	15.8	1235	3.10	136.7	61.6	14.8	35	0.3	2.1	14.6	14	4.16
1419559	Rock	2.65	0.019	1.6	44.2	14.6	32	0.2	2.6	11.3	971	2.91	80.0	7.1	15.5	31	0.3	1.7	18.9	14	3.11
1419560	Rock	1.96	0.008	2.0	15.8	10.7	31	<0.1	2.7	5.8	723	1.73	32.9	8.2	11.5	42	0.1	0.6	0.7	15	2.32
1419561	Rock	3.38	0.024	1.9	31.0	11.0	40	0.2	4.0	4.9	534	2.42	25.4	9.0	13.4	33	0.3	1.0	0.7	31	1.18
1419562	Rock	1.91	<0.005	26.7	15.0	8.7	33	<0.1	3.9	4.5	448	2.19	8.9	2.3	16.2	58	<0.1	0.6	0.5	29	1.00
1419563	Rock	2.14	<0.005	1.9	4.2	5.7	28	<0.1	3.9	3.4	419	2.02	5.6	<0.5	15.3	37	<0.1	0.5	0.1	37	0.67
1419564	Rock	1.74	0.006	2.0	8.5	6.5	32	<0.1	4.7	4.8	499	2.33	8.8	1.1	15.5	65	<0.1	0.6	0.3	39	0.93
1419511	Rock	2.40	<0.005	0.6	4.3	13.9	42	<0.1	4.3	8.5	602	2.14	6.8	2.1	13.8	59	0.2	0.2	1.6	21	2.08
1419512	Rock	1.87	0.007	1.0	5.6	9.7	42	<0.1	4.3	5.4	453	2.36	7.5	0.9	13.7	98	0.1	0.7	0.3	41	0.88
1419513	Rock	2.02	<0.005	1.0	5.2	9.6	39	<0.1	4.0	4.8	506	2.43	6.6	1.0	12.3	46	0.1	0.6	0.4	37	1.15
1419514	Rock	1.75	<0.005	0.7	5.1	7.0	38	<0.1	4.0	4.3	577	2.20	4.8	<0.5	14.0	46	<0.1	0.3	0.5	25	1.86
1419515	Rock	2.06	<0.005	0.7	2.4	6.1	33	<0.1	3.7	3.4	487	1.94	4.2	<0.5	15.8	39	<0.1	0.3	0.2	25	1.40
1419516	Rock	1.85	<0.005	0.7	3.5	6.9	13	<0.1	1.8	1.5	136	0.78	3.3	<0.5	22.4	13	<0.1	0.4	0.2	5	0.26
1419517	Rock	2.19	<0.005	0.8	3.1	6.6	38	<0.1	4.7	4.5	599	2.57	5.0	<0.5	26.6	82	0.1	0.4	0.2	34	1.48
1419518	Rock	2.57	<0.005	0.8	4.0	5.5	38	<0.1	4.0	3.8	631	2.46	5.0	<0.5	34.0	57	<0.1	0.4	0.2	27	1.88
1419519	Rock	2.38	<0.005	0.8	4.3	5.4	35	<0.1	3.3	3.6	611	2.32	4.4	0.6	32.0	56	<0.1	0.4	0.2	25	1.84
1419520	Rock	2.56	<0.005	1.6	4.0	7.6	54	<0.1	4.8	2.5	537	2.47	5.6	<0.5	14.4	55	0.1	0.6	0.2	37	1.26
1419501	Rock	0.59	0.009	1.7	19.2	33.4	65	0.9	9.7	6.5	906	2.19	89.6	4.9	5.9	18	0.4	1.5	2.9	27	0.41
1419502	Rock	0.40	0.014	1.1	17.5	37.0	65	0.9	10.9	6.7	786	2.15	49.4	6.2	11.0	26	0.7	0.9	5.6	28	0.73
1419503	Rock	1.33	0.009	0.6	9.0	14.1	53	0.2	7.7	5.0	591	2.23	19.8	2.2	14.6	44	0.2	0.4	2.9	30	1.64
1419504	Rock	2.43	0.014	0.6	7.1	15.3	49	0.1	5.4	5.2	650	2.53	16.5	18.7	13.6	42	0.3	0.4	3.0	32	2.45
1419505	Rock	2.26	0.016	0.5	5.4	11.0	50	<0.1	5.2	6.8	655	2.62	12.5	1.7	13.3	49	0.2	0.4	1.4	33	1.89
1419506	Rock	2.42	0.007	0.6	9.1	17.4	42	0.2	4.6	5.4	567	2.16	27.9	3.5	14.5	52	0.2	0.3	12.0	29	1.62



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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
		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		
1419551	Rock	0.047	13	14	0.48	134	0.105	<20	1.03	0.087	0.35	2.0	<0.01	2.8	0.4	0.07	4	<0.5	<0.2	
1419552	Rock	0.005	3	9	0.09	31	0.014	<20	0.37	0.059	0.18	3.0	<0.01	0.6	0.1	<0.05	1	<0.5	<0.2	
1419553	Rock	0.003	3	9	0.08	32	0.007	<20	0.41	0.055	0.20	2.8	<0.01	0.4	0.2	0.34	1	<0.5	<0.2	
1419554	Rock	0.004	4	10	0.10	25	0.007	<20	0.39	0.049	0.16	3.3	<0.01	0.4	0.1	0.12	2	<0.5	<0.2	
1419555	Rock	0.002	4	10	0.06	27	0.005	<20	0.36	0.058	0.19	3.3	<0.01	0.3	<0.1	0.10	1	<0.5	<0.2	
1419556	Rock	0.041	13	12	0.38	51	0.025	<20	0.93	0.050	0.18	1.9	<0.01	2.0	0.3	0.23	5	<0.5	<0.2	
1419557	Rock	0.031	10	9	0.31	46	0.008	<20	0.82	0.042	0.17	1.4	<0.01	1.7	0.2	0.34	4	<0.5	<0.2	
1419558	Rock	0.008	5	8	0.26	53	0.004	<20	0.87	0.034	0.22	6.8	<0.01	2.2	0.2	0.72	4	<0.5	<0.2	
1419559	Rock	0.006	5	7	0.23	41	0.005	<20	0.72	0.031	0.17	5.7	<0.01	1.6	0.2	0.56	3	<0.5	<0.2	
1419560	Rock	0.025	9	11	0.27	65	0.006	<20	0.82	0.041	0.20	1.6	<0.01	1.8	0.2	0.18	3	<0.5	<0.2	
1419561	Rock	0.049	15	12	0.45	94	0.065	<20	1.05	0.053	0.23	1.6	<0.01	2.4	0.3	0.25	5	<0.5	<0.2	
1419562	Rock	0.041	14	13	0.43	128	0.077	<20	0.97	0.074	0.29	1.9	<0.01	2.2	0.3	0.15	4	<0.5	<0.2	
1419563	Rock	0.045	18	12	0.48	207	0.128	<20	0.95	0.084	0.37	1.8	<0.01	2.9	0.4	<0.05	4	<0.5	<0.2	
1419564	Rock	0.052	17	14	0.54	178	0.126	<20	1.21	0.094	0.35	1.6	<0.01	2.9	0.4	0.07	4	<0.5	<0.2	
1419511	Rock	0.067	24	8	0.39	89	0.006	<20	1.13	0.029	0.24	12.6	<0.01	1.9	0.4	<0.05	4	<0.5	<0.2	
1419512	Rock	0.067	15	11	0.49	153	0.100	<20	1.27	0.073	0.17	2.3	<0.01	2.7	0.2	<0.05	6	<0.5	<0.2	
1419513	Rock	0.066	15	10	0.46	91	0.068	<20	1.18	0.048	0.19	1.2	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2	
1419514	Rock	0.064	26	9	0.38	102	0.006	<20	1.22	0.045	0.27	0.4	<0.01	2.4	0.4	<0.05	5	<0.5	<0.2	
1419515	Rock	0.059	17	9	0.37	76	0.015	<20	1.06	0.043	0.19	0.5	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	
1419516	Rock	0.003	4	4	0.10	43	0.009	<20	0.37	0.058	0.14	1.3	<0.01	0.6	<0.1	<0.05	1	<0.5	<0.2	
1419517	Rock	0.072	15	12	0.55	125	0.032	<20	1.50	0.040	0.20	0.5	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2	
1419518	Rock	0.064	17	9	0.51	78	0.019	<20	1.66	0.041	0.21	0.3	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2	
1419519	Rock	0.055	16	8	0.48	70	0.015	<20	1.57	0.034	0.18	0.3	<0.01	2.5	0.3	<0.05	6	<0.5	<0.2	
1419520	Rock	0.063	12	12	0.49	78	0.065	<20	1.37	0.053	0.20	1.0	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2	
1419501	Rock	0.076	19	14	0.22	161	0.016	<20	1.16	0.016	0.21	2.1	0.01	2.2	0.3	<0.05	3	<0.5	<0.2	
1419502	Rock	0.069	23	14	0.29	181	0.020	<20	1.19	0.029	0.26	2.9	0.01	2.5	0.3	<0.05	3	<0.5	<0.2	
1419503	Rock	0.071	26	11	0.40	116	0.014	<20	1.20	0.032	0.21	0.8	<0.01	2.4	0.3	<0.05	4	<0.5	<0.2	
1419504	Rock	0.071	25	10	0.49	110	0.007	<20	1.46	0.034	0.21	0.5	<0.01	3.0	0.2	<0.05	6	<0.5	<0.2	
1419505	Rock	0.070	28	9	0.48	93	0.006	<20	1.47	0.035	0.24	0.6	<0.01	3.7	0.3	<0.05	6	<0.5	<0.2	
1419506	Rock	0.070	26	10	0.39	105	0.008	<20	1.21	0.048	0.26	0.8	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2	



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		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1419507	Rock	2.21	0.011	0.5	7.1	10.9	45	<0.1	4.1	7.9	609	2.38	15.5	3.5	14.1	45	0.2	0.2	0.9	29	1.29
1419508	Rock	2.15	0.042	0.6	6.1	7.2	40	<0.1	4.4	5.0	508	2.40	11.4	<0.5	13.4	73	0.1	0.4	0.4	33	1.75
1419509	Rock	2.89	0.007	0.7	9.4	7.4	44	<0.1	4.8	5.8	555	2.81	14.6	2.1	13.8	72	<0.1	0.4	0.4	32	1.82
1419510	Rock	2.37	0.008	0.5	4.2	16.2	46	0.2	4.8	12.2	633	2.42	17.4	4.7	14.0	75	0.2	0.3	0.5	29	1.86
1419531	Rock	2.22	0.168	1.3	7.9	8.5	33	0.1	4.1	7.1	609	2.61	18.9	6.6	12.5	74	<0.1	1.0	0.9	31	1.42
1419532	Rock	2.57	0.025	1.4	7.7	7.5	34	<0.1	3.9	6.7	578	2.83	20.6	7.6	11.5	71	<0.1	0.5	0.5	38	1.12
1419533	Rock	1.81	0.025	1.2	15.4	6.9	25	0.1	4.4	12.3	532	2.28	45.6	17.5	13.3	32	<0.1	0.7	3.4	23	1.52
1419534	Rock	1.65	0.750	1.7	23.5	16.8	33	0.7	3.4	17.8	628	4.55	772.5	304.3	19.1	39	0.3	1.6	11.6	29	1.50
1419535	Rock	2.17	0.066	1.3	9.0	7.9	35	0.1	4.3	11.6	683	3.20	103.3	41.4	18.2	47	<0.1	0.4	1.2	38	1.81
1419536	Rock	1.84	0.020	1.2	2.4	5.2	36	<0.1	4.0	4.3	622	2.71	11.0	3.4	12.9	42	<0.1	0.5	0.2	37	1.12
1419537	Rock	1.69	<0.005	1.2	2.2	5.9	27	<0.1	3.4	3.8	453	2.13	5.2	1.1	13.5	30	<0.1	0.5	0.1	36	0.61
1419538	Rock	1.72	0.015	1.4	3.3	7.0	37	<0.1	4.9	10.4	583	2.59	11.1	5.4	12.1	49	<0.1	0.5	0.3	41	0.93
1419539	Rock	2.01	0.009	1.2	4.3	7.3	33	<0.1	4.2	12.0	596	2.40	13.1	5.6	10.2	49	<0.1	0.6	0.3	34	1.02
1419540	Rock	1.35	0.009	1.3	6.7	11.6	34	<0.1	4.2	7.8	545	2.62	21.9	3.6	11.9	77	<0.1	0.5	0.3	44	0.88
1419521	Rock	2.10	<0.005	1.2	3.7	8.9	43	<0.1	4.7	4.6	545	2.44	5.1	<0.5	10.8	54	<0.1	0.6	0.2	40	0.91
1419522	Rock	2.31	0.009	0.8	3.2	7.0	39	<0.1	4.4	4.9	542	2.59	4.7	<0.5	12.6	256	0.1	0.6	0.2	45	1.06
1419523	Rock	2.42	0.008	1.2	3.7	6.8	34	<0.1	3.8	2.4	472	2.30	4.9	0.8	12.4	85	0.1	0.7	<0.1	39	0.84
1419524	Rock	1.97	<0.005	1.0	3.6	6.9	40	<0.1	4.4	4.0	578	2.66	6.0	0.5	15.2	65	<0.1	0.7	0.4	44	0.83
1419525	Rock	2.16	0.006	1.0	3.4	7.4	41	<0.1	3.9	5.6	564	2.81	7.8	0.8	14.3	66	0.1	0.8	0.2	42	1.04
1419526	Rock	1.89	0.006	1.1	2.9	7.8	38	<0.1	4.2	3.9	530	2.56	3.9	<0.5	10.5	163	<0.1	0.5	0.1	44	1.15
1419527	Rock	2.38	0.010	1.1	2.6	7.4	35	<0.1	4.3	2.8	516	2.40	4.6	4.6	12.1	94	<0.1	0.5	0.1	41	1.00
1419528	Rock	2.39	0.008	2.4	6.1	10.3	38	0.1	4.7	6.1	543	2.83	12.4	6.2	10.4	259	0.1	1.5	2.6	31	1.62
1419529	Rock	1.80	0.012	2.5	5.5	10.5	39	0.1	5.0	6.0	544	2.93	11.5	6.8	10.7	244	0.1	1.6	3.0	31	1.70
1419530	Rock	2.76	0.014	1.8	21.3	15.9	37	0.3	4.2	15.0	602	2.73	39.5	10.3	15.1	157	0.2	1.9	3.3	31	2.27
1419541	Rock	1.49	0.005	1.1	2.9	5.4	30	<0.1	3.9	4.6	430	2.32	4.5	<0.5	11.8	39	<0.1	0.5	0.1	42	0.63
1419542	Rock	1.82	0.007	1.2	3.0	5.3	34	<0.1	3.8	4.7	485	2.47	4.4	<0.5	12.7	35	<0.1	0.4	<0.1	47	0.71
1419543	Rock	2.01	0.008	1.4	3.0	5.6	32	<0.1	3.7	4.7	477	2.31	6.2	2.0	11.8	51	<0.1	0.5	0.1	41	0.80
1419544	Rock	2.14	0.011	1.3	7.5	6.2	39	<0.1	4.2	8.5	585	2.77	24.6	4.5	12.8	47	<0.1	0.5	0.3	43	0.79
1419545	Rock	1.91	<0.005	2.2	4.7	5.0	42	<0.1	5.7	6.2	527	2.63	5.5	1.1	13.6	34	<0.1	0.5	0.1	44	0.69
1419546	Rock	3.06	0.006	2.4	6.9	5.8	50	<0.1	6.0	6.6	556	2.43	6.2	<0.5	13.3	28	<0.1	0.5	<0.1	46	0.56



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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
		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		
1419507	Rock	0.073	29	8	0.42	118	0.007	<20	1.25	0.041	0.24	0.3	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2	
1419508	Rock	0.064	20	8	0.42	195	0.023	<20	1.71	0.139	0.33	3.0	<0.01	2.9	0.5	<0.05	6	<0.5	<0.2	
1419509	Rock	0.069	21	8	0.44	179	0.020	<20	1.65	0.119	0.32	5.0	<0.01	2.9	0.5	<0.05	6	<0.5	<0.2	
1419510	Rock	0.065	21	7	0.46	143	0.006	<20	1.39	0.056	0.28	34.3	<0.01	2.6	0.4	<0.05	5	<0.5	<0.2	
1419531	Rock	0.057	15	9	0.46	71	0.025	<20	1.30	0.042	0.19	0.8	<0.01	2.5	0.4	0.06	6	<0.5	<0.2	
1419532	Rock	0.057	14	10	0.50	89	0.049	<20	1.26	0.051	0.22	0.9	<0.01	3.2	0.3	0.08	5	<0.5	<0.2	
1419533	Rock	0.056	14	9	0.33	51	0.009	<20	0.96	0.042	0.18	1.0	<0.01	2.1	0.3	0.37	4	<0.5	<0.2	
1419534	Rock	0.055	16	8	0.33	65	0.004	<20	1.25	0.046	0.27	2.2	<0.01	2.6	0.4	0.42	5	<0.5	<0.2	
1419535	Rock	0.060	19	10	0.47	57	0.019	<20	1.22	0.038	0.19	0.6	<0.01	3.1	0.3	0.14	6	<0.5	<0.2	
1419536	Rock	0.058	16	11	0.52	75	0.076	<20	1.19	0.062	0.22	1.0	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2	
1419537	Rock	0.046	15	11	0.45	164	0.112	<20	0.92	0.080	0.34	1.3	<0.01	2.6	0.4	<0.05	4	<0.5	<0.2	
1419538	Rock	0.059	12	12	0.54	124	0.101	<20	1.21	0.069	0.30	1.3	<0.01	2.6	0.4	0.05	5	<0.5	<0.2	
1419539	Rock	0.054	10	10	0.49	65	0.079	<20	1.14	0.058	0.21	1.1	<0.01	2.3	0.3	0.07	4	<0.5	<0.2	
1419540	Rock	0.055	12	11	0.52	130	0.110	<20	1.18	0.070	0.31	1.2	<0.01	3.0	0.4	0.11	5	<0.5	<0.2	
1419521	Rock	0.060	10	11	0.47	79	0.071	<20	1.17	0.068	0.16	1.1	<0.01	2.6	0.2	<0.05	5	<0.5	<0.2	
1419522	Rock	0.061	14	10	0.54	257	0.094	<20	1.34	0.060	0.22	0.8	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2	
1419523	Rock	0.052	11	10	0.45	123	0.092	<20	1.11	0.075	0.26	1.1	<0.01	2.3	0.3	<0.05	4	<0.5	<0.2	
1419524	Rock	0.064	21	11	0.53	190	0.103	<20	1.28	0.076	0.37	0.7	<0.01	3.2	0.5	<0.05	5	<0.5	<0.2	
1419525	Rock	0.062	14	11	0.50	112	0.106	<20	1.31	0.079	0.24	0.9	<0.01	3.3	0.4	<0.05	5	<0.5	<0.2	
1419526	Rock	0.061	13	11	0.51	216	0.094	<20	1.36	0.068	0.30	0.7	<0.01	3.1	0.4	<0.05	5	<0.5	<0.2	
1419527	Rock	0.066	12	10	0.50	143	0.074	<20	1.17	0.058	0.22	0.5	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2	
1419528	Rock	0.057	10	9	0.44	177	0.027	<20	1.41	0.033	0.17	0.4	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2	
1419529	Rock	0.059	11	9	0.45	180	0.030	<20	1.48	0.035	0.19	0.4	<0.01	1.9	0.4	<0.05	6	<0.5	<0.2	
1419530	Rock	0.062	15	9	0.39	128	0.014	<20	1.43	0.026	0.17	0.4	0.01	2.4	0.4	<0.05	8	<0.5	<0.2	
1419541	Rock	0.054	10	12	0.48	160	0.122	<20	1.08	0.098	0.40	1.3	<0.01	2.4	0.5	<0.05	4	<0.5	<0.2	
1419542	Rock	0.059	14	12	0.55	170	0.126	<20	1.09	0.078	0.36	1.1	<0.01	2.9	0.4	<0.05	5	<0.5	<0.2	
1419543	Rock	0.057	14	12	0.51	121	0.109	<20	1.08	0.078	0.29	1.8	<0.01	2.4	0.4	<0.05	5	<0.5	<0.2	
1419544	Rock	0.054	18	12	0.54	171	0.113	<20	1.09	0.067	0.35	1.3	<0.01	2.5	0.4	0.18	5	<0.5	<0.2	
1419545	Rock	0.059	15	18	0.54	193	0.130	<20	1.04	0.084	0.42	2.1	<0.01	2.5	0.5	<0.05	4	<0.5	<0.2	
1419546	Rock	0.070	22	20	0.58	280	0.164	<20	0.96	0.090	0.53	1.6	<0.01	2.5	0.6	<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	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1419547	Rock	3.13	0.005	2.6	6.2	5.1	50	<0.1	6.1	6.1	551	2.54	4.9	0.8	14.2	34	<0.1	0.3	<0.1	44	0.56
1419548	Rock	3.01	0.005	1.8	5.1	4.4	39	<0.1	5.2	6.1	534	2.54	5.1	0.5	15.4	33	<0.1	0.3	<0.1	46	0.59
1419549	Rock	2.43	0.005	1.8	4.4	4.6	39	<0.1	5.2	6.3	583	2.67	4.5	<0.5	13.6	38	<0.1	0.3	0.1	49	0.62
1419550	Rock	3.04	<0.005	1.8	9.7	5.3	38	<0.1	4.5	5.6	507	2.46	6.7	0.7	16.2	29	<0.1	0.4	<0.1	42	0.55



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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	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	0.001	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	
1419547	Rock	0.056	22	19	0.54	277	0.160	<20	1.00	0.117	0.54	1.8	<0.01	2.7	0.5	<0.05	4	<0.5	<0.2
1419548	Rock	0.057	20	17	0.57	260	0.154	<20	1.04	0.087	0.56	1.6	<0.01	2.9	0.6	<0.05	4	<0.5	<0.2
1419549	Rock	0.065	21	17	0.61	306	0.170	<20	1.14	0.114	0.63	1.5	<0.01	3.5	0.7	<0.05	5	<0.5	<0.2
1419550	Rock	0.059	20	15	0.54	255	0.150	<20	1.02	0.081	0.51	1.7	<0.01	2.6	0.6	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	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	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1419551	Rock	1.89	<0.005	2.5	6.6	7.5	32	<0.1	3.8	4.5	480	2.25	9.6	2.1	13.2	32	<0.1	0.5	0.2	34	0.77
REP 1419551	QC			2.5	6.7	7.8	34	<0.1	3.8	4.8	495	2.33	10.2	1.5	14.3	33	<0.1	0.5	0.2	35	0.79
1419510	Rock	2.37	0.008	0.5	4.2	16.2	46	0.2	4.8	12.2	633	2.42	17.4	4.7	14.0	75	0.2	0.3	0.5	29	1.86
REP 1419510	QC			0.7	4.7	17.0	50	0.2	4.4	11.8	641	2.46	18.4	12.7	14.6	73	0.2	0.2	0.6	29	1.93
REP 1419537	QC		0.005																		
1419546	Rock	3.06	0.006	2.4	6.9	5.8	50	<0.1	6.0	6.6	556	2.43	6.2	<0.5	13.3	28	<0.1	0.5	<0.1	46	0.56
REP 1419546	QC		0.005																		
Core Reject Duplicates																					
1419557	Rock	1.97	0.032	1.7	26.8	11.0	30	0.1	2.5	8.4	464	2.07	18.7	4.3	13.9	32	0.2	0.9	1.1	19	1.40
DUP 1419557	QC		0.011	1.7	27.5	10.8	31	<0.1	2.7	8.6	449	2.02	18.4	5.4	13.9	29	0.2	0.8	1.1	19	1.38
1419537	Rock	1.69	<0.005	1.2	2.2	5.9	27	<0.1	3.4	3.8	453	2.13	5.2	1.1	13.5	30	<0.1	0.5	0.1	36	0.61
DUP 1419537	QC		0.007	1.3	3.3	5.7	28	<0.1	3.4	3.6	434	2.06	5.2	<0.5	13.6	30	<0.1	0.5	0.1	35	0.59
Reference Materials																					
STD DS10	Standard			11.8	142.2	141.2	340	1.6	67.8	11.7	829	2.58	42.3	56.6	6.5	60	2.2	6.4	11.4	41	0.99
STD DS10	Standard			14.9	152.3	151.8	380	1.7	73.5	12.9	911	2.80	46.6	54.1	7.4	73	2.8	7.0	11.8	44	1.11
STD OREAS45EA	Standard			1.3	657.7	13.5	30	0.2	351.6	47.6	395	20.14	8.3	46.6	9.1	3	<0.1	0.2	0.2	286	0.03
STD OREAS45EA	Standard			1.6	725.5	14.3	31	0.2	403.4	53.2	442	23.09	10.5	55.4	10.0	4	<0.1	0.2	0.3	323	0.03
STD OXD108	Standard		0.389																		
STD OXD108	Standard		0.418																		
STD OXD108	Standard		0.409																		
STD OXI121	Standard		1.767																		
STD OXI121	Standard		1.795																		
STD OXI121	Standard		1.786																		
STD OXN117	Standard		7.774																		
STD OXN117	Standard		7.719																		
STD OXN117	Standard		7.970																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036



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Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte		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		0.001	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	
Pulp Duplicates																				
1419551	Rock	0.047	13	14	0.48	134	0.105	<20	1.03	0.087	0.35	2.0	<0.01	2.8	0.4	0.07	4	<0.5	<0.2	
REP 1419551	QC	0.050	15	14	0.49	149	0.106	<20	1.06	0.088	0.36	2.0	<0.01	2.7	0.4	0.07	4	<0.5	<0.2	
1419510	Rock	0.065	21	7	0.46	143	0.006	<20	1.39	0.056	0.28	34.3	<0.01	2.6	0.4	<0.05	5	<0.5	<0.2	
REP 1419510	QC	0.067	21	7	0.46	146	0.006	<20	1.40	0.056	0.29	29.2	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2	
REP 1419537	QC																			
1419546	Rock	0.070	22	20	0.58	280	0.164	<20	0.96	0.090	0.53	1.6	<0.01	2.5	0.6	<0.05	4	<0.5	<0.2	
REP 1419546	QC																			
Core Reject Duplicates																				
1419557	Rock	0.031	10	9	0.31	46	0.008	<20	0.82	0.042	0.17	1.4	<0.01	1.7	0.2	0.34	4	<0.5	<0.2	
DUP 1419557	QC	0.030	10	9	0.30	44	0.007	<20	0.79	0.041	0.17	1.5	<0.01	1.5	0.2	0.34	4	<0.5	<0.2	
1419537	Rock	0.046	15	11	0.45	164	0.112	<20	0.92	0.080	0.34	1.3	<0.01	2.6	0.4	<0.05	4	<0.5	<0.2	
DUP 1419537	QC	0.045	14	10	0.43	158	0.112	<20	0.88	0.077	0.33	1.4	<0.01	2.5	0.4	<0.05	4	<0.5	<0.2	
Reference Materials																				
STD DS10	Standard	0.068	16	50	0.72	370	0.069	21	0.95	0.068	0.31	3.1	0.24	2.7	4.6	0.26	4	2.0	4.6	
STD DS10	Standard	0.077	19	56	0.79	430	0.085	<20	1.09	0.072	0.35	2.8	0.28	3.1	5.2	0.28	4	2.4	4.8	
STD OREAS45EA	Standard	0.025	7	787	0.09	126	0.089	<20	2.94	0.024	0.05	<0.1	<0.01	72.1	<0.1	<0.05	12	<0.5	<0.2	
STD OREAS45EA	Standard	0.029	7	903	0.11	147	0.100	<20	3.39	0.021	0.05	<0.1	<0.01	82.1	<0.1	<0.05	13	0.7	<0.2	
STD OXD108	Standard																			
STD OXD108	Standard																			
STD OXD108	Standard																			
STD OXI121	Standard																			
STD OXI121	Standard																			
STD OXI121	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	



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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	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	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OXD108 Expected		0.414																			
STD OXN117 Expected		7.679																			
STD OXI121 Expected		1.834																			
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	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.8	6.4	1.7	33	<0.1	1.4	3.4	433	1.76	0.8	1.1	2.3	26	<0.1	<0.1	<0.1	24	0.63	
ROCK-WHI	Prep Blank	<0.005	0.9	5.7	1.6	27	<0.1	1.4	3.3	419	1.69	1.1	0.9	2.3	28	<0.1	<0.1	<0.1	23	0.65	



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Project: ROY
Report Date: September 15, 2016

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QUALITY CONTROL REPORT

WHI16000215.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		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
		0.001	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
STD OXD108	Expected																		
STD OXN117	Expected																		
STD OXI121	Expected																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
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																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	0.038	6	4	0.40	73	0.093	<20	0.97	0.118	0.11	0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.037	6	4	0.39	73	0.088	<20	0.97	0.103	0.10	0.5	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2