



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

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

**Client:** **Jack Milton**  
1022 Pennylane Place  
Squamish British Columbia Canada

Submitted By: Jack Milton  
Receiving Lab: Canada-Whitehorse  
Received: July 08, 2020  
Analysis Start: July 15, 2020  
Report Date: July 24, 2020  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI20000090.2

## CLIENT JOB INFORMATION

Project: Sot  
Shipment ID:  
P.O. Number  
Number of Samples: 7

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp 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: Jack Milton  
1022 Pennylane Place  
Squamish British Columbia  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	7	Dry at 60C sieve 100g to -230 mesh			WHI
AQ252_EXT	7	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
DISPL	7	Disposal of pulps			VAN
SHP01	7	Per sample shipping charges for branch shipments			VAN
BAT01	1	Batch charge of <20 samples			VAN

## ADDITIONAL COMMENTS

Version 2 : Revised sample IDs.



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

WHI20000090.2

Method	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
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	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	
20JM001S	Sediment	1.27	0.92	15.65	5.71	50.4	42	15.4	9.1	326	2.16	3.3	2.0	20.7	4.9	32.3	0.09	0.24	0.11	53	0.67
20JM003S	Sediment	1.37	0.99	18.49	6.61	56.8	49	19.7	11.6	811	2.69	4.6	4.0	2.5	5.9	55.5	0.12	0.28	0.28	64	0.88
20JM004S	Sediment	1.85	0.34	18.38	5.56	56.2	44	19.9	10.8	390	2.44	4.0	2.0	2.8	4.2	59.8	0.12	0.22	0.10	59	0.79
20JM005S	Sediment	1.18	0.93	19.06	6.58	66.0	51	23.6	14.3	1803	3.06	6.1	5.8	1.8	4.2	67.2	0.16	0.25	0.12	66	0.88
20JM006S	Sediment	0.82	0.36	14.93	5.10	49.0	41	18.9	9.9	383	2.22	4.2	1.5	4.1	4.0	40.4	0.09	0.24	0.09	57	0.72
20JM007S	Sediment	1.59	0.76	14.77	6.05	54.0	50	18.0	9.2	428	2.30	4.1	3.5	2.4	4.3	53.9	0.13	0.24	0.11	58	0.83
20JM008S	Sediment	3.81	0.48	11.52	6.74	55.9	48	15.3	9.4	450	2.41	3.6	3.0	6.2	5.4	37.9	0.17	0.20	0.12	62	0.70



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Report Date: July 24, 2020

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# CERTIFICATE OF ANALYSIS

WHI20000090.2

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
20JM001S	Sediment	0.074	14.8	27.4	0.60	133.1	0.128	1	1.63	0.033	0.10	0.4	5.1	0.11	<0.02	35	<0.1	<0.02	4.6	1.27	<0.1
20JM003S	Sediment	0.086	19.9	32.5	0.68	206.6	0.137	2	1.76	0.039	0.15	0.5	6.4	0.14	0.03	38	0.2	<0.02	5.2	1.93	<0.1
20JM004S	Sediment	0.072	15.2	31.6	0.63	218.7	0.150	2	1.71	0.048	0.11	0.2	5.9	0.08	<0.02	20	0.2	<0.02	4.7	0.85	<0.1
20JM005S	Sediment	0.076	15.2	33.9	0.68	234.0	0.144	2	1.85	0.047	0.11	0.2	6.4	0.12	0.05	39	0.3	<0.02	4.9	1.30	<0.1
20JM006S	Sediment	0.078	13.7	31.4	0.64	124.4	0.133	1	1.48	0.043	0.09	0.4	4.7	0.09	<0.02	18	0.1	<0.02	4.4	0.98	<0.1
20JM007S	Sediment	0.082	16.8	28.6	0.62	178.4	0.127	2	1.66	0.042	0.10	0.2	5.4	0.08	<0.02	19	0.2	<0.02	4.6	1.10	<0.1
20JM008S	Sediment	0.090	17.8	26.5	0.62	143.4	0.136	1	1.66	0.030	0.18	0.3	5.7	0.14	<0.02	24	<0.1	<0.02	4.9	1.40	<0.1



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# CERTIFICATE OF ANALYSIS

WHI2000090.2

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
20JM001S	Sediment	0.10	1.05	12.6	0.6	<0.05	3.3	8.18	26.3	<0.02	<1	0.2	10.6	<10	<2
20JM003S	Sediment	0.10	1.31	15.8	0.8	<0.05	4.3	11.27	35.7	0.04	<1	0.3	13.3	<10	<2
20JM004S	Sediment	0.15	1.32	10.2	0.6	<0.05	5.5	9.42	28.3	0.02	<1	0.2	12.2	<10	<2
20JM005S	Sediment	0.12	1.36	12.3	0.6	<0.05	5.1	9.78	29.6	0.03	<1	0.4	12.4	<10	<2
20JM006S	Sediment	0.14	1.03	8.7	0.5	<0.05	4.7	7.90	25.9	<0.02	<1	0.3	9.7	<10	<2
20JM007S	Sediment	0.10	1.10	10.0	0.5	<0.05	4.3	9.58	30.7	<0.02	<1	0.3	12.7	<10	<2
20JM008S	Sediment	0.07	1.14	18.1	0.7	<0.05	3.2	9.92	31.8	0.02	<1	0.2	12.9	<10	<2



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# QUALITY CONTROL REPORT

WHI20000090.2

Method	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
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	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	
Pulp Duplicates																					
20JM006S	Sediment	0.82	0.36	14.93	5.10	49.0	41	18.9	9.9	383	2.22	4.2	1.5	4.1	4.0	40.4	0.09	0.24	0.09	57	0.72
REP 20JM006S	QC		0.38	14.58	4.97	48.0	38	18.0	9.8	379	2.14	4.2	1.5	2.7	3.8	40.1	0.08	0.23	0.08	58	0.71
Reference Materials																					
STD DS11	Standard		16.69	151.75	152.95	341.7	1620	88.2	15.3	1035	3.11	42.2	2.8	72.1	8.9	65.8	2.28	7.44	11.64	49	1.06
STD OREAS262	Standard		0.65	115.06	62.22	144.2	421	69.2	30.2	545	3.16	33.7	1.3	56.2	10.3	34.0	0.63	3.75	1.01	22	2.95
STD DS11 Expected			14.6	149	138	345	1710	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
STD OREAS262 Expected			0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01



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# QUALITY CONTROL REPORT

WHI20000090.2

Method		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
20JM006S	Sediment	0.078	13.7	31.4	0.64	124.4	0.133	1	1.48	0.043	0.09	0.4	4.7	0.09	<0.02	18	0.1	<0.02	4.4	0.98	<0.1
REP 20JM006S	QC	0.075	13.1	31.7	0.62	120.4	0.131	1	1.47	0.043	0.10	0.3	5.0	0.08	<0.02	22	0.1	<0.02	4.2	0.93	<0.1
Reference Materials																					
STD DS11	Standard	0.067	21.1	68.7	0.85	341.8	0.107	8	1.19	0.072	0.41	2.9	3.5	4.79	0.27	224	2.4	4.38	4.9	2.86	<0.1
STD OREAS262	Standard	0.038	18.5	47.1	1.17	247.1	0.003	4	1.47	0.065	0.32	0.2	3.5	0.45	0.25	158	0.4	0.21	3.9	2.64	<0.1
STD DS11 Expected		0.0701	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	3.24	0.47	0.253	170	0.4	0.23	4.1	2.8	
BLK	Blank	<0.001	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1



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# QUALITY CONTROL REPORT

WHI2000090.2

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates															
20JM006S	Sediment	0.14	1.03	8.7	0.5	<0.05	4.7	7.90	25.9	<0.02	<1	0.3	9.7	<10	<2
REP 20JM006S	QC	0.10	0.96	8.6	0.5	<0.05	4.5	7.72	25.0	0.02	<1	0.2	9.5	<10	<2
Reference Materials															
STD DS11	Standard	0.08	1.80	33.6	1.8	<0.05	3.1	8.05	39.7	0.23	47	0.6	21.9	123	159
STD OREAS262	Standard	0.24	<0.02	19.2	0.5	<0.05	9.1	10.48	36.1	0.03	<1	1.2	17.0	<10	<2
STD DS11 Expected		0.06	1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	100	172
STD OREAS262 Expected		0.27		18.6	0.5		11.7	11.2	32	0.033		1.14	17.8		
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2