



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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

**Client: Midnight Mining**  
Box 31347  
Whitehorse YT Y1A 5P7 CANADA

Submitted By: Debbie James  
Receiving Lab: Canada-Whitehorse  
Received: January 04, 2016  
Report Date: January 18, 2016  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI16000001.1

## CLIENT JOB INFORMATION

Project: SPY  
Shipment ID: SPY1  
P.O. Number  
Number of Samples: 30

## SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

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: Midnight Mining  
Box 31347  
Whitehorse YT Y1A 5P7  
CANADA

CC: Bill Harris  
Sue Craig

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	29	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_PGM	30	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	30	Per sample shipping charges for branch shipments			WHI

## 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

# WHI1600001.1

Method Analyte	Unit	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	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	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
615751	Rock	2.61	0.83	94.63	17.47	140.1	194	38.5	11.2	736	3.34	53.4	0.2	5.0	1.0	45.9	0.28	1.86	0.07	50	1.09
615752	Rock	0.86	2.05	60.21	5.72	100.4	422	66.9	20.4	1083	4.25	51.7	0.1	5.1	0.5	55.7	0.17	1.03	0.07	75	0.92
615753	Rock	2.21	0.72	51.56	3.03	95.8	345	64.8	18.5	1260	4.30	61.0	0.1	4.8	0.4	92.3	0.29	1.12	0.02	83	4.07
615754	Rock	1.38	0.22	73.98	1.30	86.6	815	192.1	39.2	1139	5.55	9.1	<0.1	1.1	0.3	89.1	0.28	0.31	<0.02	124	6.29
615755	Rock	1.52	0.13	82.09	0.86	54.1	87	155.9	33.0	784	4.34	3.8	<0.1	1.0	0.3	47.7	0.04	0.09	<0.02	83	2.72
615756	Rock	2.03	0.10	84.80	0.55	55.9	54	151.1	34.8	686	4.33	2.3	<0.1	<0.2	0.2	36.0	0.02	0.03	<0.02	67	1.79
615757	Rock	4.21	0.20	86.14	0.89	52.2	49	131.8	31.6	578	4.03	12.2	<0.1	0.8	0.3	31.1	0.05	0.29	<0.02	75	2.05
615760	Rock Pulp	0.06	0.09	2.13	2.00	50.1	12	3.9	4.4	583	1.86	<0.1	2.4	<0.2	4.1	47.7	<0.01	<0.02	0.05	36	0.45
615761	Rock	2.78	0.15	87.05	0.40	57.7	43	141.9	32.5	633	4.32	0.6	<0.1	1.3	0.3	32.5	0.05	0.05	<0.02	73	1.98
615762	Rock	5.17	0.13	83.98	1.03	52.1	90	118.0	30.9	741	4.18	18.1	<0.1	0.9	0.3	33.9	0.02	0.40	<0.02	85	2.87
615763	Rock	7.96	0.13	76.32	1.11	50.2	66	129.6	31.0	681	4.08	32.6	<0.1	0.3	0.3	44.2	0.04	0.76	<0.02	93	3.22
615764	Rock	2.97	0.12	78.16	1.17	48.8	62	120.6	30.4	627	3.99	25.3	<0.1	2.1	0.2	38.5	0.02	0.72	<0.02	103	2.70
615766	Rock	1.51	25.91	22.39	11.88	138.5	624	30.2	30.3	821	4.86	84.0	5.4	<0.2	0.4	594.5	1.47	4.35	0.07	79	14.72
615769	Rock	1.88	0.27	60.05	0.39	66.7	45	39.8	33.3	1069	5.91	0.5	<0.1	<0.2	<0.1	123.5	0.12	0.13	<0.02	181	5.10
615771	Rock	1.12	0.54	80.64	5.46	70.2	112	19.9	25.2	1184	5.37	33.7	<0.1	<0.2	0.6	125.7	0.13	1.03	0.02	64	5.21
615772	Rock	1.91	0.94	25.41	3.11	56.1	71	4.8	4.9	697	2.16	13.0	<0.1	0.3	0.3	50.6	0.17	3.08	0.09	10	1.95
615773	Rock	2.10	0.37	30.60	5.54	43.7	31	4.5	4.1	561	2.05	20.7	0.1	<0.2	0.7	38.2	0.07	5.02	<0.02	10	1.35
615774	Rock	1.05	0.35	30.49	2.96	43.5	25	3.9	4.5	642	2.24	14.6	0.1	0.8	0.6	65.3	0.13	4.27	<0.02	6	1.56
615775	Rock	1.22	0.11	57.73	0.72	66.4	22	312.6	46.4	647	4.88	0.4	<0.1	2.3	0.3	44.9	0.08	<0.02	<0.02	58	1.83
615776	Rock	1.82	0.19	97.62	0.40	41.6	44	97.9	27.1	361	3.31	5.2	<0.1	<0.2	0.4	38.1	0.02	0.33	<0.02	65	1.14
615777	Rock	1.94	0.14	170.03	1.48	70.7	80	704.7	125.1	1114	8.48	0.6	<0.1	5.0	0.2	10.8	0.08	<0.02	<0.02	23	0.31
615778	Rock	1.57	0.08	24.98	0.48	18.6	20	57.0	13.8	2321	2.29	0.4	<0.1	0.3	<0.1	98.5	<0.01	0.03	<0.02	53	18.94
615779	Rock	1.29	0.09	78.80	0.48	51.0	29	94.5	30.4	552	4.28	0.6	0.1	0.4	0.4	20.3	0.01	0.05	<0.02	85	1.33
615780	Rock	1.62	0.32	119.50	1.40	65.4	60	66.0	26.9	631	4.47	3.4	<0.1	1.4	0.3	40.3	0.08	0.21	<0.02	132	4.23
615781	Rock	1.50	0.20	82.00	0.95	44.6	38	85.4	26.4	365	3.26	0.6	<0.1	0.5	0.3	60.5	0.04	<0.02	<0.02	39	1.72
15SPY01	Rock	2.77	0.68	49.41	2.08	71.1	31	65.5	38.1	637	5.07	1.7	0.4	2.8	0.7	104.2	0.11	0.09	<0.02	131	1.51
15SPY02	Rock	3.04	0.21	394.20	0.68	44.6	145	83.8	37.6	503	3.35	2.1	<0.1	2.3	0.1	30.5	0.07	0.15	<0.02	53	1.76
15SPY03	Rock	6.87	0.46	7354.10	0.95	62.3	3385	29.8	23.2	536	4.60	20.5	0.3	5.0	0.7	34.3	0.29	1.32	1.17	155	2.55
15AKK01	Rock	1.75	2.43	9591.11	5.71	93.1	2594	>10000	968.1	332	29.05	19.9	0.6	137.2	0.4	17.5	1.06	0.29	0.60	55	2.12
15AKK02	Rock	6.87	0.41	260.57	1.06	11.2	122	2439.7	138.2	1298	8.28	1.4	0.4	7.1	0.2	45.1	0.04	0.15	0.08	22	13.77



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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	TI	S	Hg	Se	Te	Ga	Pd	Pt	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb	
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	10	10	
615751	Rock	0.016	3.3	19.0	0.57	295.6	0.001	20	0.42	0.030	0.14	<0.1	8.4	0.04	0.03	420	0.2	0.06	1.1	<10	<2
615752	Rock	0.014	2.1	54.5	0.65	364.0	0.001	28	0.67	0.011	0.16	<0.1	13.2	0.05	0.03	478	0.2	<0.02	2.0	<10	<2
615753	Rock	0.021	2.4	91.2	1.89	260.3	0.002	22	0.66	0.016	0.12	0.2	12.6	0.04	0.03	254	<0.1	<0.02	1.5	<10	2
615754	Rock	0.027	2.6	309.1	3.76	62.1	0.017	32	1.78	0.083	0.11	0.2	21.4	<0.02	<0.02	173	<0.1	<0.02	5.0	11	9
615755	Rock	0.030	2.4	149.6	3.41	281.6	0.054	28	2.33	0.117	0.11	<0.1	8.3	<0.02	0.03	17	<0.1	<0.02	6.0	<10	6
615756	Rock	0.029	2.4	98.7	3.09	24.8	0.039	27	2.15	0.089	0.08	<0.1	5.7	<0.02	<0.02	17	0.2	<0.02	4.9	<10	11
615757	Rock	0.031	2.0	149.8	3.17	14.4	0.072	15	2.42	0.073	0.06	0.1	7.0	<0.02	<0.02	10	0.2	<0.02	5.5	14	12
615760	Rock Pulp	0.086	5.8	33.1	0.62	261.2	0.129	<1	0.85	0.033	0.54	<0.1	2.2	0.40	<0.02	<5	<0.1	<0.02	5.0	<10	<2
615761	Rock	0.031	2.2	116.5	3.22	17.1	0.070	19	2.59	0.085	0.07	<0.1	6.3	<0.02	<0.02	11	0.2	<0.02	5.7	<10	11
615762	Rock	0.030	2.0	179.2	3.24	13.8	0.068	39	2.12	0.045	0.05	0.2	10.3	<0.02	<0.02	<5	<0.1	<0.02	4.9	17	12
615763	Rock	0.027	1.7	235.7	3.32	20.0	0.064	43	2.44	0.050	0.06	0.2	11.6	0.02	<0.02	6	0.1	<0.02	5.9	<10	11
615764	Rock	0.027	1.5	284.6	3.20	18.0	0.094	33	2.81	0.066	0.07	0.1	11.6	<0.02	0.03	14	<0.1	<0.02	6.5	19	9
615766	Rock	3.737	42.4	28.0	0.39	27.3	0.030	12	1.18	0.229	0.19	2.0	4.7	0.19	4.74	205	8.6	0.33	2.9	<10	<2
615769	Rock	0.047	2.6	57.7	3.30	93.2	0.132	28	1.50	0.038	0.05	<0.1	24.2	0.02	0.07	139	0.2	<0.02	5.7	<10	<2
615771	Rock	0.110	3.8	12.9	2.08	333.8	0.001	31	0.68	0.028	0.29	<0.1	16.3	0.15	0.16	1323	0.3	<0.02	1.4	<10	<2
615772	Rock	0.019	1.6	2.7	0.63	445.0	<0.001	19	0.30	0.025	0.15	<0.1	5.0	0.03	0.07	958	<0.1	<0.02	0.8	<10	<2
615773	Rock	0.035	4.5	4.0	0.48	451.4	0.001	14	0.29	0.055	0.12	<0.1	5.6	0.02	0.08	453	<0.1	<0.02	0.8	<10	<2
615774	Rock	0.022	3.6	1.9	0.48	1142.0	<0.001	16	0.33	0.021	0.23	<0.1	4.6	0.04	0.07	435	<0.1	<0.02	0.7	<10	<2
615775	Rock	0.023	1.5	206.5	5.66	18.2	0.085	15	3.76	0.132	0.03	<0.1	10.7	<0.02	<0.02	14	<0.1	<0.02	6.6	<10	9
615776	Rock	0.037	2.5	121.8	2.35	28.0	0.104	5	2.56	0.107	0.07	0.1	4.9	<0.02	0.02	<5	<0.1	<0.02	6.0	<10	7
615777	Rock	0.018	2.1	304.8	17.03	32.2	0.030	160	1.37	0.010	0.13	<0.1	9.1	0.04	0.06	6	0.2	<0.02	2.8	<10	<2
615778	Rock	0.010	3.0	206.4	0.59	125.6	0.008	4	1.13	0.012	0.16	<0.1	7.7	0.04	<0.02	10	<0.1	<0.02	2.8	<10	<2
615779	Rock	0.025	2.0	222.8	3.31	52.4	0.114	8	3.18	0.081	0.07	<0.1	9.5	<0.02	<0.02	10	<0.1	<0.02	9.3	<10	6
615780	Rock	0.041	3.7	100.2	2.21	33.0	0.184	13	2.64	0.102	0.06	0.1	16.3	<0.02	<0.02	11	<0.1	<0.02	8.3	<10	7
615781	Rock	0.025	1.6	111.5	2.55	42.1	0.085	4	3.36	0.300	0.07	<0.1	4.8	<0.02	<0.02	10	0.3	<0.02	6.7	<10	9
15SPY01	Rock	0.115	5.8	125.6	4.09	14.3	0.251	5	3.94	0.035	0.12	0.2	11.6	0.04	0.07	7	0.3	0.04	9.0	<10	8
15SPY02	Rock	0.071	2.0	105.6	1.64	10.6	0.191	2	1.85	0.041	0.03	<0.1	8.3	0.03	0.38	24	0.7	<0.02	4.0	<10	5
15SPY03	Rock	0.068	3.3	15.4	1.71	30.6	0.177	4	2.70	0.377	0.09	<0.1	16.3	<0.02	0.49	23	6.1	0.65	8.2	<10	8
15AKK01	Rock	0.020	2.0	150.3	0.84	66.5	0.067	5	1.31	0.033	0.13	1.6	3.8	0.15	6.81	621	48.7	2.18	4.0	481	188
15AKK02	Rock	0.023	0.6	25.4	0.48	2.6	0.027	3	1.08	0.007	<0.01	2.2	3.8	<0.02	2.33	26	7.0	0.07	5.7	69	22

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.



# QUALITY CONTROL REPORT

WHI1600001.1

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	2	0.01	
Pulp Duplicates																					
615764	Rock	2.97	0.12	78.16	1.17	48.8	62	120.6	30.4	627	3.99	25.3	<0.1	2.1	0.2	38.5	0.02	0.72	<0.02	103	2.70
REP 615764	QC		0.14	76.38	1.22	46.2	66	120.8	30.0	634	3.97	24.5	<0.1	1.6	0.3	38.9	0.04	0.75	<0.02	102	2.68
15AKK02	Rock	6.87	0.41	260.57	1.06	11.2	122	2439.7	138.2	1298	8.28	1.4	0.4	7.1	0.2	45.1	0.04	0.15	0.08	22	13.77
REP 15AKK02	QC		0.48	253.62	1.10	10.6	135	2390.3	136.0	1279	8.13	1.4	0.3	3.0	0.3	44.8	0.04	0.11	0.07	22	13.73
Core Reject Duplicates																					
615771	Rock	1.12	0.54	80.64	5.46	70.2	112	19.9	25.2	1184	5.37	33.7	<0.1	<0.2	0.6	125.7	0.13	1.03	0.02	64	5.21
DUP 615771	QC		1.28	79.31	5.97	72.7	122	19.9	24.7	1166	5.30	36.0	0.2	<0.2	0.5	138.5	0.19	1.15	0.03	67	5.33
Reference Materials																					
STD DS10	Standard		14.27	153.80	159.42	373.7	2010	74.9	13.2	893	2.79	46.1	2.8	80.7	7.6	66.2	2.52	8.67	12.86	43	1.07
STD DS10	Standard		15.22	153.31	157.86	379.9	1997	76.9	13.0	921	2.89	46.5	2.9	73.5	8.1	71.0	2.70	8.73	12.78	44	1.11
STD OXC129	Standard		1.25	27.62	6.46	43.2	25	84.7	20.3	440	3.11	<0.1	0.7	198.6	2.0	190.1	0.06	0.05	0.02	51	0.63
STD OXC129	Standard		1.16	28.90	6.43	43.0	23	82.6	20.4	455	3.12	0.4	0.7	194.6	1.9	198.4	0.05	0.04	<0.02	52	0.69
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	0.05	<0.01	<0.1	<2	<0.1	<0.1	2	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	0.01
Prep Wash																					
ROCK-WHI	Prep Blank		0.50	6.38	3.94	38.4	23	1.5	3.5	490	1.83	0.2	0.5	0.2	2.4	27.8	0.06	0.07	0.05	23	0.74
ROCK-WHI	Prep Blank		0.63	5.64	1.08	28.5	20	1.4	3.8	476	1.83	<0.1	0.4	<0.2	2.4	23.5	0.03	0.03	0.03	23	0.63



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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	Pd	Pt
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
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	10	2
Pulp Duplicates																					
615764	Rock	0.027	1.5	284.6	3.20	18.0	0.094	33	2.81	0.066	0.07	0.1	11.6	<0.02	0.03	14	<0.1	<0.02	6.5	19	9
REP 615764	QC	0.027	1.7	277.7	3.22	18.3	0.095	33	2.83	0.066	0.07	0.2	12.0	<0.02	0.03	14	<0.1	0.02	6.5	10	5
15AKK02	Rock	0.023	0.6	25.4	0.48	2.6	0.027	3	1.08	0.007	<0.01	2.2	3.8	<0.02	2.33	26	7.0	0.07	5.7	69	22
REP 15AKK02	QC	0.023	0.6	25.3	0.47	2.4	0.026	2	1.06	0.007	<0.01	2.3	3.4	<0.02	2.25	15	7.4	0.03	5.7	69	20
Core Reject Duplicates																					
615771	Rock	0.110	3.8	12.9	2.08	333.8	0.001	31	0.68	0.028	0.29	<0.1	16.3	0.15	0.16	1323	0.3	<0.02	1.4	<10	<2
DUP 615771	QC	0.187	4.5	14.7	2.00	332.4	0.002	33	0.80	0.031	0.34	0.2	16.1	0.17	0.25	1350	0.3	<0.02	1.8	<10	<2
Reference Materials																					
STD DS10	Standard	0.076	16.6	54.5	0.77	347.5	0.077	7	1.02	0.066	0.34	3.4	3.3	5.40	0.28	286	2.3	5.45	4.3	123	190
STD DS10	Standard	0.079	18.4	57.3	0.80	368.8	0.082	6	1.10	0.070	0.35	3.4	3.4	5.42	0.28	279	2.3	5.69	4.4	117	205
STD OXC129	Standard	0.101	12.8	51.6	1.59	50.0	0.408	1	1.55	0.601	0.36	<0.1	2.3	0.03	<0.02	<5	0.1	<0.02	5.8	<10	3
STD OXC129	Standard	0.104	12.9	53.5	1.59	48.7	0.408	1	1.62	0.614	0.37	<0.1	2.5	0.03	<0.02	<5	<0.1	<0.02	6.2	16	<2
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	110	191
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6		
BLK	Blank	<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	<10	<2
BLK	Blank	<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	<10	<2
Prep Wash																					
ROCK-WHI	Prep Blank	0.041	5.5	2.5	0.47	55.2	0.079	<1	1.03	0.078	0.08	0.1	5.1	<0.02	<0.02	8	<0.1	<0.02	4.3	<10	2
ROCK-WHI	Prep Blank	0.044	5.2	1.8	0.48	58.5	0.079	<1	0.93	0.079	0.08	<0.1	4.5	<0.02	<0.02	<5	<0.1	<0.02	4.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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

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

**Client: Midnight Mining**  
Box 31347  
Whitehorse YT Y1A 5P7 CANADA

Submitted By: Debbie James  
Receiving Lab: Canada-Whitehorse  
Received: January 04, 2016  
Report Date: January 19, 2016  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI16000002.1

## CLIENT JOB INFORMATION

Project: SPY  
Shipment ID: SPY1  
P.O. Number  
Number of Samples: 2

## SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	2	Dry at 60C			WHI
SS80	2	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	2	Save all or part of Soil Reject			WHI
AQ252_PGM	2	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	2	Per sample shipping charges for branch shipments			WHI

## 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: Midnight Mining  
Box 31347  
Whitehorse YT Y1A 5P7  
CANADA

CC: Bill Harris  
Sue Craig



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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**Client: Midnight Mining**  
Box 31347  
Whitehorse YT Y1A 5P7 CANADA

Project: SPY  
Report Date: January 19, 2016

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# CERTIFICATE OF ANALYSIS

WHI1600002.1

Method	AQ252																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Analyte	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
615758	Silt	1.36	69.42	8.86	85.6	256	68.3	26.2	710	4.16	11.0	0.2	<0.2	0.6	69.9	0.31	0.79	0.11	78	2.50	0.071
615767	Silt	1.85	87.63	13.67	130.7	398	46.7	25.4	752	4.77	14.7	0.5	0.7	1.8	114.4	0.47	1.13	0.18	72	2.72	0.085



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Project: SPY  
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# CERTIFICATE OF ANALYSIS

WHI1600002.1

Method	AQ252																			
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt	
Analyte	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb	
MDL	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	10	2	
615758	Silt	4.3	95.0	2.27	43.0	0.089	47	2.36	0.014	0.03	0.2	7.2	0.03	0.11	144	0.4	0.04	6.2	<10	4
615767	Silt	11.7	55.9	1.79	46.3	0.026	20	2.19	0.016	0.05	<0.1	9.7	0.05	0.25	124	1.8	0.09	5.9	<10	3





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Project: SPY  
Report Date: January 19, 2016

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# QUALITY CONTROL REPORT

WHI1600002.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		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	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																						
615767	Silt	1.85	87.63	13.67	130.7	398	46.7	25.4	752	4.77	14.7	0.5	0.7	1.8	114.4	0.47	1.13	0.18	72	2.72	0.085	
REP 615767	QC	1.73	92.35	14.22	130.5	465	48.8	25.4	746	4.77	15.2	0.5	1.2	1.9	120.7	0.46	1.28	0.18	72	2.74	0.090	
Reference Materials																						
STD DS10	Standard	12.43	150.91	150.95	369.1	2112	73.3	12.9	906	2.70	46.4	2.6	82.2	7.2	67.4	2.64	8.42	12.80	41	1.04	0.073	
STD OXC129	Standard	1.15	26.18	6.30	39.8	20	74.3	19.9	412	2.95	0.3	0.7	188.7	1.7	178.4	0.03	0.03	0.02	52	0.59	0.102	
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102	
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	<2	<0.01	<0.001	



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Project: SPY  
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Part: 2 of 2

# QUALITY CONTROL REPORT

WHI1600002.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt	
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppb	ppb
MDL		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	10	2	
Pulp Duplicates																					
615767	Silt	11.7	55.9	1.79	46.3	0.026	20	2.19	0.016	0.05	<0.1	9.7	0.05	0.25	124	1.8	0.09	5.9	<10	3	
REP 615767	QC	12.7	55.7	1.79	48.3	0.028	20	2.20	0.016	0.05	<0.1	9.9	0.05	0.24	111	1.6	0.08	5.8	<10	3	
Reference Materials																					
STD DS10	Standard	16.6	55.3	0.76	350.9	0.077	6	1.01	0.069	0.32	3.5	3.1	5.25	0.28	306	2.5	5.05	4.3	105	187	
STD OXC129	Standard	11.9	49.9	1.53	50.4	0.398	<1	1.51	0.588	0.37	<0.1	0.7	0.03	<0.02	<5	<0.1	<0.02	5.0	<10	<2	
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	110	191	
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6			
BLK	Blank	<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	<10	<2	