



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES
27A MACDONALD RD
WHITEHORSE YT Y1A 4L1

Page: 1
Finalized Date: 10-SEP-2013
This copy reported on
13-SEP-2013
Account: MIDMIN

QC CERTIFICATE WH13150727

Project: Arch
P.O. No.: SED1
This report is for 9 Sediment samples submitted to our lab in Whitehorse, YT, Canada on 20-AUG-2013.

The following have access to data associated with this certificate:

SUSAN CRAIG

DEBBIE JAMES

DERRICK STRICKLAND

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41L	51 anal. aqua regia ICPMS

To: MIDNIGHT MINING SERVICES
ATTN: DEBBIE JAMES
27A MACDONALD RD
WHITEHORSE YT Y1A 4L1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES
27A MACDONALD RD
WHITEHORSE YT Y1A 4L1

Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 10-SEP-2013
Account: MIDMIN

Project: Arch

QC CERTIFICATE OF ANALYSIS WH13150727

Sample Description	Method Analyte Units LOR	ME-MS41L Au ppm	ME-MS41L Ag ppm	ME-MS41L Al %	ME-MS41L As ppm	ME-MS41L B ppm	ME-MS41L Ba ppm	ME-MS41L Be ppm	ME-MS41L Bi ppm	ME-MS41L Ca %	ME-MS41L Cd ppm	ME-MS41L Ce ppm	ME-MS41L Co ppm	ME-MS41L Cr ppm	ME-MS41L Cs ppm	ME-MS41L Cu ppm
		0.0002	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01
STANDARDS																
GBM908-10		0.422	3.06	0.96	58.5	<10	106.0	0.31	1.180	0.72	1.615	88.4	15.30	23.6	0.850	3750
Target Range - Lower Bound		0.401	2.70	0.85	49.5	<10	88.8	0.26	1.130	0.62	1.530	79.3	12.95	21.0	0.715	3380
Upper Bound		0.491	3.30	1.06	60.5	30	121.5	0.34	1.385	0.79	1.870	97.0	15.85	25.7	0.885	3880
OREAS 90		0.0003	0.042	2.38	4.75	<10	51.4	0.61	1.010	0.39	0.005	58.6	15.95	42.1	0.920	112.0
Target Range - Lower Bound		<0.0002	0.053	2.09	4.04	<10	42.0	0.54	0.827	0.33	0.003	54.5	13.75	36.4	0.904	102.5
Upper Bound		0.0010	0.067	2.57	4.96	20	58.0	0.68	1.015	0.43	0.007	66.7	16.85	44.5	1.115	117.5
OREAS-45b		0.0264	0.201	3.94	3.22	<10	150.0	0.70	0.174	0.31	0.092	38.0	77.4	647	1.300	446
Target Range - Lower Bound		0.0277	0.179	3.73	2.69	<10	130.0	0.66	0.161	0.28	0.089	36.2	66.4	600	1.265	418
Upper Bound		0.0343	0.221	4.58	3.31	20	177.0	0.82	0.199	0.36	0.111	44.2	81.2	734	1.555	480
STSD-3		0.0022	0.426	1.56	23.9	<10	640	1.16	1.220	1.26	1.045	36.5	13.35	30.6	2.69	36.0
Target Range - Lower Bound		0.0026	0.359	1.44	19.80	<10	589	0.99	1.215	1.12	0.899	35.4	12.60	30.6	2.49	35.3
Upper Bound		0.0037	0.441	1.78	24.2	30	798	1.23	1.485	1.39	1.100	43.2	15.40	37.4	3.05	40.7
BLANKS																
BLANK		<0.0002	<0.001	<0.01	0.01	<10	<0.5	<0.01	0.001	<0.01	0.001	<0.003	<0.001	0.01	<0.005	0.08
BLANK		<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	0.001	<0.01	<0.001	<0.003	0.002	0.01	<0.005	0.10
Target Range - Lower Bound		<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	<0.01
Upper Bound		0.0004	0.002	0.02	0.02	20	1.0	0.02	0.002	0.02	0.002	0.006	0.002	0.02	0.010	0.02
DUPLICATES																
ORIGINAL		0.0020	0.126	1.26	0.27	<10	52.3	0.08	0.052	1.93	9.89	5.31	9.33	8.91	0.090	100.5
DUP		0.0018	0.128	1.30	0.30	<10	55.4	0.11	0.063	1.96	10.15	5.39	9.07	8.87	0.084	100.0
Target Range - Lower Bound		0.0016	0.120	1.21	0.26	<10	49.3	0.08	0.054	1.84	9.52	5.08	8.74	8.44	0.078	96.7
Upper Bound		0.0022	0.134	1.35	0.31	20	58.4	0.11	0.061	2.05	10.50	5.62	9.66	9.34	0.096	104.0
ORIGINAL		0.0005	0.031	1.43	2.49	<10	102.5	0.34	0.126	5.43	0.007	29.7	7.72	22.3	0.883	12.90
DUP		0.0007	0.031	1.45	2.14	<10	105.0	0.35	0.121	5.57	0.024	29.2	7.43	21.3	0.895	12.80
Target Range - Lower Bound		0.0004	0.028	1.36	2.19	<10	95.5	0.32	0.116	5.22	0.014	28.0	7.20	20.7	0.840	12.40
Upper Bound		0.0008	0.034	1.52	2.44	20	112.0	0.37	0.131	5.79	0.017	30.9	7.95	22.9	0.938	13.30



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES
27A MACDONALD RD
WHITEHORSE YT Y1A 4L1

Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 10-SEP-2013
Account: MIDMIN

Project: Arch

QC CERTIFICATE OF ANALYSIS WH13150727

Sample Description	Method Analyte Units LOR	ME-MS41L Fe %	ME-MS41L Ga ppm	ME-MS41L Ge ppm	ME-MS41L Hf ppm	ME-MS41L Hg ppm	ME-MS41L In ppm	ME-MS41L K %	ME-MS41L La ppm	ME-MS41L Li ppm	ME-MS41L Mg %	ME-MS41L Mn ppm	ME-MS41L Mo ppm	ME-MS41L Na %	ME-MS41L Nb ppm	ME-MS41L Ni ppm
		0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002	0.04
STANDARDS																
GBM908-10		2.70	4.97	0.119	0.777	0.022	0.021	0.44	47.4	6.7	0.56	298	63.3	0.138	0.405	2270
Target Range - Lower Bound		2.36	4.23	0.113	0.640	0.007	0.012	0.37	43.4	5.6	0.47	264	57.9	0.107	0.347	2030
Upper Bound		2.88	5.17	0.149	0.787	0.026	0.034	0.48	53.0	7.1	0.59	322	70.8	0.133	0.429	2480
OREAS 90		3.97	6.71	0.089	0.715	<0.004	0.026	0.35	29.5	18.6	1.47	608	0.41	0.016	0.324	90.5
Target Range - Lower Bound		3.40	5.82	0.071	0.628	<0.004	0.016	0.31	28.1	17.8	1.21	520	0.35	0.012	0.347	76.7
Upper Bound		4.16	7.13	0.099	0.772	0.008	0.038	0.40	34.3	22.0	1.50	636	0.45	0.018	0.429	93.8
OREAS-45b		14.80	21.3	0.116	0.692	0.043	0.088	0.07	18.20	7.4	0.12	772	1.38	0.017	1.110	211
Target Range - Lower Bound		13.35	19.55	0.112	0.655	0.028	0.085	0.05	17.45	7.3	0.09	732	1.10	0.014	0.925	177.5
Upper Bound		16.35	23.9	0.148	0.805	0.052	0.115	0.09	21.3	9.1	0.15	894	1.36	0.020	1.135	217
STSD-3		3.18	5.26	0.077	0.022	0.098	0.048	0.12	22.2	18.6	0.74	2390	6.15	0.036	1.160	25.9
Target Range - Lower Bound		3.06	4.96	0.070	0.016	0.073	0.038	0.09	21.3	18.2	0.66	2370	6.29	0.035	1.125	22.5
Upper Bound		3.74	6.07	0.099	0.026	0.108	0.063	0.15	26.0	22.4	0.83	2890	7.71	0.045	1.380	27.5
BLANKS																
BLANK		<0.001	0.004	0.014	<0.002	<0.004	<0.005	<0.01	<0.002	0.1	<0.01	0.1	<0.01	<0.001	<0.002	<0.04
BLANK		<0.001	0.007	0.012	<0.002	<0.004	0.007	<0.01	<0.002	0.2	<0.01	<0.1	<0.01	0.002	<0.002	<0.04
Target Range - Lower Bound		<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Upper Bound		0.002	0.008	0.010	0.004	0.008	0.010	0.02	0.004	0.2	0.02	0.2	0.02	0.002	0.004	0.08
DUPLICATES																
ORIGINAL		1.900	3.46	0.023	0.035	0.045	0.131	0.09	2.32	7.9	0.82	4110	1.49	0.031	0.069	6.41
DUP		1.930	3.34	0.013	0.036	0.036	0.139	0.10	2.44	7.6	0.82	4180	1.65	0.034	0.073	6.56
Target Range - Lower Bound		1.820	3.23	0.012	0.032	0.033	0.123	0.08	2.26	7.3	0.77	3940	1.48	0.030	0.065	6.12
Upper Bound		2.01	3.57	0.024	0.039	0.048	0.147	0.11	2.50	8.2	0.87	4350	1.66	0.035	0.077	6.85
ORIGINAL		2.10	4.15	0.040	0.025	0.005	0.012	0.30	14.25	16.7	1.10	356	0.68	0.063	0.266	18.65
DUP		2.12	3.86	0.038	0.027	<0.004	0.010	0.31	14.05	17.0	1.11	365	0.52	0.064	0.260	17.95
Target Range - Lower Bound		2.00	3.80	0.032	0.023	<0.004	<0.005	0.28	13.45	15.9	1.04	342	0.56	0.059	0.248	17.35
Upper Bound		2.22	4.21	0.046	0.029	0.008	0.017	0.33	14.85	17.8	1.17	379	0.64	0.068	0.278	19.25



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES
27A MACDONALD RD
WHITEHORSE YT Y1A 4L1

Page: 2 - C
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 10-SEP-2013
Account: MIDMIN

Project: Arch

QC CERTIFICATE OF ANALYSIS WH13150727

Sample Description	Method Analyte Units LOR	ME-MS41L P %	ME-MS41L Pb ppm	ME-MS41L Pd ppm	ME-MS41L Pt ppm	ME-MS41L Rb ppm	ME-MS41L Re ppm	ME-MS41L S %	ME-MS41L Sb ppm	ME-MS41L Sc ppm	ME-MS41L Se ppm	ME-MS41L Sn ppm	ME-MS41L Sr ppm	ME-MS41L Ta ppm	ME-MS41L Te ppm	ME-MS41L Th ppm
		0.001	0.005	0.001	0.002	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002
STANDARDS																
GBM908-10		0.086	2130	0.004	0.008	30.1	<0.001	0.41	1.415	2.22	1.1	1.82	34.4	0.008	0.05	16.55
Target Range - Lower Bound		0.076	1860			27.7	<0.001	0.33	1.100	1.885	0.7	1.52	31.0	<0.005	0.02	14.50
Upper Bound		0.096	2270			33.9	0.003	0.43	1.500	2.32	1.1	1.88	37.9	0.021	0.07	17.75
OREAS 90		0.067	5.11	0.002	0.002	19.55	<0.001	0.08	0.416	2.24	1.1	1.21	10.95	0.018	0.05	15.25
Target Range - Lower Bound		0.057	4.95			19.00	<0.001	0.05	0.378	2.15	0.6	1.15	10.70	0.009	<0.01	14.50
Upper Bound		0.072	6.06			23.2	0.002	0.09	0.523	2.63	1.1	1.43	13.10	0.031	0.05	17.70
OREAS-45b		0.045	20.2	0.031	0.050	8.66	<0.001	0.04	0.349	46.0	0.8	2.00	16.10	<0.005	0.02	6.67
Target Range - Lower Bound		0.040	18.90			8.64	<0.001	<0.01	0.259	41.6	0.8	1.89	15.55	<0.005	0.02	6.62
Upper Bound		0.052	23.1			10.60	0.002	0.06	0.362	50.8	1.3	2.33	19.05	0.010	0.06	8.10
STSD-3		0.143	38.2	0.002	<0.002	14.70	0.001	0.18	2.75	2.88	2.4	1.52	65.4	<0.005	0.06	0.864
Target Range - Lower Bound		0.134	35.1	<0.001	<0.002	14.45	<0.001	0.14	2.04	2.80	2.1	1.32	59.0	<0.005	0.05	0.798
Upper Bound		0.166	42.9	0.004	0.004	17.70	0.004	0.20	2.77	3.44	2.8	1.64	72.1	0.021	0.10	0.980
BLANKS																
BLANK		<0.001	<0.005	<0.001	<0.002	0.008	<0.001	0.01	<0.005	<0.005	<0.1	0.01	0.01	<0.005	<0.01	<0.002
BLANK		<0.001	<0.005	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	0.01	<0.01	0.005	0.01	<0.002
Target Range - Lower Bound		<0.001	<0.005			<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01	<0.002
Upper Bound		0.002	0.010			0.010	0.002	0.02	0.010	0.010	0.2	0.02	0.02	0.010	0.02	0.004
DUPLICATES																
ORIGINAL		0.030	0.684	0.003	<0.002	1.445	0.001	0.42	0.106	0.902	0.3	0.16	32.1	<0.005	0.05	1.090
DUP		0.030	0.766	0.002	<0.002	1.415	<0.001	0.42	0.134	0.854	0.4	0.15	33.9	<0.005	0.05	1.175
Target Range - Lower Bound		0.028	0.684	<0.001	<0.002	1.355	<0.001	0.39	0.106	0.829	0.2	0.14	31.3	<0.005	0.04	1.075
Upper Bound		0.033	0.766	0.004	0.004	1.505	0.002	0.45	0.134	0.927	0.5	0.17	34.7	0.010	0.06	1.190
ORIGINAL		0.052	6.91	0.003	<0.002	19.65	<0.001	0.06	0.081	2.65	0.5	0.35	138.0	0.007	0.01	6.30
DUP		0.054	6.80	0.001	<0.002	19.15	<0.001	0.07	0.068	2.56	0.5	0.34	137.0	0.009	0.03	6.18
Target Range - Lower Bound		0.049	6.51	<0.001	<0.002	18.45	<0.001	0.05	0.064	2.47	0.4	0.32	130.5	<0.005	<0.01	5.93
Upper Bound		0.057	7.20	0.003	0.004	20.4	0.002	0.08	0.085	2.74	0.6	0.37	144.5	0.010	0.03	6.55



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES
 27A MACDONALD RD
 WHITEHORSE YT Y1A 4L1

Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 10-SEP-2013
 Account: MIDMIN

Project: Arch

QC CERTIFICATE OF ANALYSIS WH13150727

Sample Description	Method Analyte Units LOR	ME-MS41L Ti %	ME-MS41L Ti ppm	ME-MS41L U ppm	ME-MS41L V ppm	ME-MS41L W ppm	ME-MS41L Y ppm	ME-MS41L Zn ppm	ME-MS41L Zr ppm
		0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
STANDARDS									
GBM908-10		0.319	0.224	1.315	49.1	2.11	20.2	1020	28.3
Target Range - Lower Bound		0.280	0.178	1.190	42.2	1.620	17.60	941	24.5
Upper Bound		0.344	0.245	1.470	51.8	2.20	21.5	1150	33.1
OREAS 90		0.080	0.113	1.960	21.7	0.411	16.50	60.1	24.4
Target Range - Lower Bound		0.075	0.092	1.860	19.7	0.356	15.45	52.6	21.1
Upper Bound		0.094	0.129	2.28	24.3	0.484	18.90	64.5	28.6
OREAS-45b		0.214	0.107	1.160	217	0.027	8.00	168.5	27.0
Target Range - Lower Bound		0.206	0.092	1.120	199.0	0.016	7.77	155.5	24.7
Upper Bound		0.254	0.129	1.380	243	0.024	9.51	190.5	33.5
STSD-3		0.041	0.235	7.65	49.7	1.190	18.65	187.0	0.63
Target Range - Lower Bound		0.039	0.219	7.37	49.7	1.145	17.80	172.5	0.55
Upper Bound		0.049	0.301	9.01	61.0	1.555	21.7	211	0.77
BLANKS									
BLANK		<0.001	0.002	<0.005	0.1	0.001	<0.003	0.1	<0.01
BLANK		<0.001	<0.002	<0.005	0.1	0.001	<0.003	0.1	<0.01
Target Range - Lower Bound		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
Upper Bound		0.002	0.004	0.010	0.2	0.002	0.006	0.2	0.02
DUPLICATES									
ORIGINAL		0.053	0.008	0.505	13.8	0.124	2.69	5030	0.38
DUP		0.057	0.009	0.511	14.3	0.140	2.82	5050	0.37
Target Range - Lower Bound		0.051	0.006	0.478	13.2	0.121	2.61	4790	0.34
Upper Bound		0.059	0.011	0.538	14.9	0.143	2.90	5290	0.41
ORIGINAL		0.044	0.126	0.792	14.3	0.437	6.70	28.8	0.99
DUP		0.046	0.129	0.759	14.0	0.616	6.51	28.0	0.90
Target Range - Lower Bound		0.042	0.116	0.732	13.3	0.486	6.27	26.9	0.86
Upper Bound		0.048	0.139	0.819	15.0	0.567	6.94	29.9	1.03



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES
27A MACDONALD RD
WHITEHORSE YT Y1A 4L1

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 10-SEP-2013
Account: MIDMIN

Project: Arch

QC CERTIFICATE OF ANALYSIS WH13150727

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41L

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME-MS41L