



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

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This copy reported on  
13-SEP-2013  
Account: MIDMIN

**QC CERTIFICATE WH13160020**

Project: Arch

P.O. No.: Rock1

This report is for 1 Soil sample submitted to our lab in Whitehorse, YT, Canada on 26-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



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**QC CERTIFICATE OF ANALYSIS WH13160020**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS41L<br>Au<br>ppm<br>0.0002 | ME-MS41L<br>Ag<br>ppm<br>0.001 | ME-MS41L<br>Al<br>%<br>0.01 | ME-MS41L<br>As<br>ppm<br>0.01 | ME-MS41L<br>B<br>ppm<br>10 | ME-MS41L<br>Ba<br>ppm<br>0.5 | ME-MS41L<br>Be<br>ppm<br>0.01 | ME-MS41L<br>Bi<br>ppm<br>0.001 | ME-MS41L<br>Ca<br>%<br>0.01 | ME-MS41L<br>Cd<br>ppm<br>0.001 | ME-MS41L<br>Ce<br>ppm<br>0.003 | ME-MS41L<br>Co<br>ppm<br>0.001 | ME-MS41L<br>Cr<br>ppm<br>0.01 | ME-MS41L<br>Cs<br>ppm<br>0.005 | ME-MS41L<br>Cu<br>ppm<br>0.01 |
|----------------------------|-----------------------------------|---------------------------------|--------------------------------|-----------------------------|-------------------------------|----------------------------|------------------------------|-------------------------------|--------------------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>STANDARDS</b>           |                                   |                                 |                                |                             |                               |                            |                              |                               |                                |                             |                                |                                |                                |                               |                                |                               |
| GBM908-10                  |                                   | 0.369                           | 2.89                           | 0.91                        | 50.9                          | 10                         | 102.5                        | 0.29                          | 1.130                          | 0.63                        | 1.695                          | 81.5                           | 13.90                          | 21.6                          | 0.744                          | 3530                          |
| 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                          |
| <b>BLANKS</b>              |                                   |                                 |                                |                             |                               |                            |                              |                               |                                |                             |                                |                                |                                |                               |                                |                               |
| BLANK                      |                                   | <0.0002                         | 0.001                          | <0.01                       | <0.01                         | <10                        | <0.5                         | <0.01                         | 0.001                          | <0.01                       | <0.001                         | 0.003                          | 0.002                          | 0.02                          | <0.005                         | 0.01                          |
| 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                          |
| <b>DUPLICATES</b>          |                                   |                                 |                                |                             |                               |                            |                              |                               |                                |                             |                                |                                |                                |                               |                                |                               |
| ORIGINAL                   |                                   | 0.0006                          | 1.075                          | 0.95                        | 6.19                          | <10                        | 138.5                        | 0.41                          | 0.256                          | 0.59                        | 3.27                           | 33.3                           | 4.23                           | 11.30                         | 0.565                          | 663                           |
| DUP                        |                                   | 0.0006                          | 1.105                          | 0.97                        | 5.97                          | <10                        | 140.0                        | 0.45                          | 0.256                          | 0.60                        | 3.49                           | 35.2                           | 4.13                           | 10.90                         | 0.579                          | 671                           |
| Target Range - Lower Bound |                                   | 0.0004                          | 1.035                          | 0.90                        | 5.77                          | <10                        | 128.5                        | 0.40                          | 0.242                          | 0.56                        | 3.21                           | 32.5                           | 3.97                           | 10.55                         | 0.538                          | 644                           |
| Upper Bound                |                                   | 0.0008                          | 1.145                          | 1.02                        | 6.39                          | 20                         | 150.0                        | 0.46                          | 0.270                          | 0.63                        | 3.55                           | 36.0                           | 4.39                           | 11.65                         | 0.606                          | 690                           |



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Project: Arch

**QC CERTIFICATE OF ANALYSIS WH13160020**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS41L<br>Fe<br>% | ME-MS41L<br>Ga<br>ppm | ME-MS41L<br>Ge<br>ppm | ME-MS41L<br>Hf<br>ppm | ME-MS41L<br>Hg<br>ppm | ME-MS41L<br>In<br>ppm | ME-MS41L<br>K<br>% | ME-MS41L<br>La<br>ppm | ME-MS41L<br>Li<br>ppm | ME-MS41L<br>Mg<br>% | ME-MS41L<br>Mn<br>ppm | ME-MS41L<br>Mo<br>ppm | ME-MS41L<br>Na<br>% | ME-MS41L<br>Nb<br>ppm | ME-MS41L<br>Ni<br>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                  |
| <b>STANDARDS</b>           |                                   |                     |                       |                       |                       |                       |                       |                    |                       |                       |                     |                       |                       |                     |                       |                       |
| GBM908-10                  |                                   | 2.58                | 4.55                  | 0.134                 | 0.555                 | 0.015                 | 0.024                 | 0.40               | 44.9                  | 6.2                   | 0.52                | 286                   | 63.5                  | 0.126               | 0.355                 | 2250                  |
| 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                  |
| <b>BLANKS</b>              |                                   |                     |                       |                       |                       |                       |                       |                    |                       |                       |                     |                       |                       |                     |                       |                       |
| BLANK                      |                                   | <0.001              | 0.005                 | 0.008                 | <0.002                | <0.004                | <0.005                | <0.01              | <0.002                | <0.1                  | <0.01               | <0.1                  | <0.01                 | <0.001              | <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                  |
| <b>DUPLICATES</b>          |                                   |                     |                       |                       |                       |                       |                       |                    |                       |                       |                     |                       |                       |                     |                       |                       |
| ORIGINAL                   |                                   | 1.880               | 5.16                  | 0.060                 | 0.198                 | 0.032                 | 0.110                 | 0.18               | 15.25                 | 18.3                  | 0.36                | 413                   | 1.74                  | 0.036               | 0.015                 | 3.14                  |
| DUP                        |                                   | 1.910               | 5.05                  | 0.050                 | 0.214                 | 0.037                 | 0.120                 | 0.18               | 16.25                 | 19.0                  | 0.37                | 421                   | 1.73                  | 0.040               | 0.017                 | 3.32                  |
| Target Range - Lower Bound |                                   | 1.800               | 4.85                  | 0.047                 | 0.194                 | 0.028                 | 0.104                 | 0.16               | 14.95                 | 17.6                  | 0.34                | 396                   | 1.64                  | 0.035               | 0.013                 | 3.03                  |
| Upper Bound                |                                   | 1.990               | 5.36                  | 0.063                 | 0.218                 | 0.041                 | 0.126                 | 0.20               | 16.55                 | 19.7                  | 0.39                | 438                   | 1.83                  | 0.041               | 0.019                 | 3.43                  |



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**QC CERTIFICATE OF ANALYSIS WH13160020**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS41L<br>P<br>% | ME-MS41L<br>Pb<br>ppm | ME-MS41L<br>Pd<br>ppm | ME-MS41L<br>Pt<br>ppm | ME-MS41L<br>Rb<br>ppm | ME-MS41L<br>Re<br>ppm | ME-MS41L<br>S<br>% | ME-MS41L<br>Sb<br>ppm | ME-MS41L<br>Sc<br>ppm | ME-MS41L<br>Se<br>ppm | ME-MS41L<br>Sn<br>ppm | ME-MS41L<br>Sr<br>ppm | ME-MS41L<br>Ta<br>ppm | ME-MS41L<br>Te<br>ppm | ME-MS41L<br>Th<br>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                 |
| <b>STANDARDS</b>           |                                   |                    |                       |                       |                       |                       |                       |                    |                       |                       |                       |                       |                       |                       |                       |                       |
| GBM908-10                  |                                   | 0.085              | 2070                  | <0.001                | 0.007                 | 28.8                  | <0.001                | 0.39               | 1.195                 | 1.990                 | 1.0                   | 1.55                  | 32.4                  | 0.006                 | 0.05                  | 16.20                 |
| 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                 |
| <b>BLANKS</b>              |                                   |                    |                       |                       |                       |                       |                       |                    |                       |                       |                       |                       |                       |                       |                       |                       |
| BLANK                      |                                   | <0.001             | <0.005                | <0.001                | <0.002                | <0.005                | <0.001                | <0.01              | <0.005                | <0.005                | <0.1                  | <0.01                 | 0.02                  | <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                 |
| <b>DUPLICATES</b>          |                                   |                    |                       |                       |                       |                       |                       |                    |                       |                       |                       |                       |                       |                       |                       |                       |
| ORIGINAL                   |                                   | 0.047              | 38.3                  | <0.001                | <0.002                | 10.35                 | <0.001                | 0.03               | 0.477                 | 1.725                 | 0.3                   | 0.37                  | 13.95                 | 0.005                 | <0.01                 | 6.02                  |
| DUP                        |                                   | 0.049              | 40.0                  | <0.001                | <0.002                | 10.30                 | <0.001                | 0.03               | 0.537                 | 1.600                 | 0.3                   | 0.47                  | 14.00                 | 0.005                 | <0.01                 | 6.41                  |
| Target Range - Lower Bound |                                   | 0.045              | 37.2                  | <0.001                | <0.002                | 9.80                  | <0.001                | 0.02               | 0.464                 | 1.575                 | 0.2                   | 0.39                  | 13.25                 | <0.005                | <0.01                 | 5.90                  |
| Upper Bound                |                                   | 0.051              | 41.1                  | 0.002                 | 0.004                 | 10.85                 | 0.002                 | 0.04               | 0.550                 | 1.750                 | 0.4                   | 0.45                  | 14.70                 | 0.010                 | 0.02                  | 6.53                  |



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**QC CERTIFICATE OF ANALYSIS WH13160020**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS41L<br>Ti<br>% | ME-MS41L<br>Ti<br>ppm | ME-MS41L<br>U<br>ppm | ME-MS41L<br>V<br>ppm | ME-MS41L<br>W<br>ppm | ME-MS41L<br>Y<br>ppm | ME-MS41L<br>Zn<br>ppm | ME-MS41L<br>Zr<br>ppm |
|----------------------------|-----------------------------------|---------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|
|                            |                                   | 0.001               | 0.002                 | 0.005                | 0.1                  | 0.001                | 0.003                | 0.1                   | 0.01                  |
| <b>STANDARDS</b>           |                                   |                     |                       |                      |                      |                      |                      |                       |                       |
| GBM908-10                  |                                   | 0.296               | 0.200                 | 1.215                | 45.3                 | 1.740                | 18.85                | 1005                  | 25.5                  |
| 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                  |
| <b>BLANKS</b>              |                                   |                     |                       |                      |                      |                      |                      |                       |                       |
| 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                  |
| <b>DUPLICATES</b>          |                                   |                     |                       |                      |                      |                      |                      |                       |                       |
| ORIGINAL                   |                                   | 0.002               | 0.072                 | 1.330                | 10.0                 | 0.029                | 9.07                 | 498                   | 7.02                  |
| DUP                        |                                   | 0.002               | 0.066                 | 1.400                | 9.7                  | 0.026                | 9.37                 | 509                   | 6.69                  |
| Target Range - Lower Bound |                                   | <0.001              | 0.062                 | 1.290                | 9.3                  | 0.024                | 8.76                 | 478                   | 6.33                  |
| Upper Bound                |                                   | 0.003               | 0.076                 | 1.440                | 10.4                 | 0.031                | 9.68                 | 529                   | 7.38                  |



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QC CERTIFICATE OF ANALYSIS WH13160020

## 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