



**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:** **Fireweed Zinc Ltd.**  
Suite 1020, 800 Pender Street  
Vancouver British Columbia V5C 2V6 Canada

Submitted By: Confirmation & Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: September 18, 2018  
Report Date: November 10, 2018  
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## CERTIFICATE OF ANALYSIS

WHI18000939.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ18-BV-024  
P.O. Number  
Number of Samples: 45

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 60 days Invoice for Storage

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description                                    | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|---|--------------|---------------|-----|
| PRP70-500      | 44                | Crush, split and pulverize 500g rock to 200 mesh    |              |               | WHI |
| SLBHP          | 1                 | Sort, label and box pulps                           |              |               | WHI |
| CRUBW          | 44                | Extra clean rock wash between samples in crusher    |              |               | WHI |
| PULSW          | 44                | Extra Wash with Silica between each sample          |              |               | WHI |
| FA330          | 45                | Fire assay fusion Au Pt Pd by ICP-ES                | 30           | Completed     | VAN |
| EN002          | 45                | Environmental disposal charge-Fire assay lead waste |              |               | VAN |
| AQ270          | 45                | 1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis   | 1            | Completed     | VAN |
| LF725          | 45                | Li2B4O7/LiBO2 fusion, analysis by XRF               |              | Completed     | VAN |
| TC006          | 45                | 15% HClO4 leach, CO2 analysis by Leco               | 0.2          | Completed     | VAN |
| TC003          | 45                | Analysis by Leco                                    | 0.1          | Completed     | VAN |
| SHP01          | 45                | Per sample shipping charges for branch shipments    |              |               | VAN |

### ADDITIONAL COMMENTS

Invoice To: Fireweed Zinc Ltd.  
Suite 1020, 800 Pender Street  
Vancouver British Columbia V5C 2V6  
Canada

CC:



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

WHI18000939.1

| Method<br>Analyte<br>Unit<br>MDL |            | WGHT | FA330 | FA330 | FA330 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 |
|----------------------------------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                  |            | Wgt  | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Th    | Sr    | Cd    | Sb    | Bi    |
|                                  |            | kg   | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                                  |            | 0.01 | 2     | 3     | 2     | 0.5   | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   | 5     | 0.01  | 5     | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   |
| 3208147                          | Drill Core | 5.80 | 11    | 3     | 4     | 4.0   | 77.6  | 32.4  | 44    | 0.6   | 48.4  | 10.4  | 614   | 3.10  | 27    | 0.8   | 5.6   | 41    | <0.5  | 5.0   | <0.5  |
| 3208148                          | Drill Core | 2.17 | 11    | 4     | 7     | 8.0   | 14.0  | 162.7 | 52    | 1.0   | 2.4   | <0.5  | 13    | 0.34  | 8     | 0.9   | 2.9   | 39    | <0.5  | 7.6   | <0.5  |
| 3208149                          | Drill Core | 2.90 | 10    | <3    | 9     | 6.8   | 8.4   | 83.6  | 18    | 1.5   | 2.7   | <0.5  | 12    | 0.34  | <5    | 0.5   | 2.2   | 38    | <0.5  | 6.6   | <0.5  |
| 3208150                          | Drill Core | 3.02 | 8     | <3    | 4     | 14.1  | 46.4  | 60.0  | 250   | 0.9   | 46.5  | 4.2   | 28    | 1.62  | 20    | 1.3   | 4.0   | 40    | 1.1   | 10.1  | <0.5  |
| 3208151                          | Drill Core | 5.56 | 21    | 3     | 6     | 14.3  | 64.8  | 53.6  | 1215  | 1.0   | 74.2  | 9.0   | 183   | 3.13  | 28    | 1.6   | 3.7   | 81    | 13.3  | 12.6  | <0.5  |
| 3208152                          | Drill Core | 6.42 | 8     | <3    | 6     | 15.1  | 53.8  | 51.0  | 2256  | 1.0   | 80.2  | 9.5   | 221   | 2.84  | 28    | 1.6   | 3.8   | 61    | 17.4  | 12.9  | <0.5  |
| 3208153                          | Drill Core | 6.87 | 11    | 4     | 10    | 18.1  | 56.1  | 62.7  | 1958  | 1.0   | 81.4  | 7.9   | 156   | 2.41  | 32    | 1.8   | 3.5   | 59    | 11.4  | 14.6  | <0.5  |
| 3208154                          | Drill Core | 5.41 | 11    | <3    | 7     | 20.4  | 57.7  | 67.1  | 1148  | 1.1   | 79.5  | 6.4   | 161   | 2.11  | 31    | 1.8   | 3.4   | 70    | 6.8   | 14.2  | <0.5  |
| 3208155                          | Drill Core | 4.93 | 11    | <3    | 5     | 16.0  | 47.3  | 86.5  | 2173  | 1.0   | 78.8  | 7.1   | 357   | 2.69  | 35    | 1.5   | 3.0   | 100   | 9.1   | 14.5  | <0.5  |
| 3208156                          | Drill Core | 5.65 | 13    | <3    | 7     | 16.9  | 62.3  | 63.7  | 1633  | 0.9   | 72.9  | 6.6   | 257   | 2.09  | 31    | 1.9   | 3.2   | 69    | 3.0   | 15.7  | <0.5  |
| 3208157                          | Drill Core | 7.21 | 12    | <3    | 8     | 20.0  | 54.3  | 66.4  | 387   | 1.0   | 71.1  | 6.2   | 223   | 2.15  | 34    | 2.2   | 3.7   | 83    | 1.6   | 16.8  | <0.5  |
| 3208158                          | Drill Core | 6.73 | 12    | 4     | 7     | 19.8  | 48.2  | 65.2  | 947   | 0.9   | 69.9  | 6.1   | 229   | 2.13  | 37    | 2.1   | 3.4   | 52    | 0.7   | 16.5  | <0.5  |
| 3208159                          | Drill Core | 7.14 | 10    | <3    | 8     | 20.6  | 54.0  | 63.9  | 2299  | 0.9   | 72.1  | 7.5   | 336   | 2.50  | 40    | 2.0   | 3.3   | 71    | 4.5   | 19.2  | <0.5  |
| 3208160                          | Drill Core | 6.48 | 8     | 3     | 5     | 20.6  | 40.4  | 56.9  | 1201  | 0.7   | 67.9  | 7.1   | 521   | 2.23  | 34    | 1.8   | 3.2   | 109   | 1.2   | 16.0  | <0.5  |
| 3208161                          | Drill Core | 6.66 | 16    | <3    | 5     | 16.6  | 62.5  | 83.3  | 2290  | 1.1   | 74.5  | 8.8   | 310   | 2.58  | 43    | 1.6   | 3.3   | 56    | 4.5   | 21.7  | <0.5  |
| 3208162                          | Drill Core | 4.70 | 14    | <3    | 8     | 20.2  | 66.5  | 93.9  | 2744  | 1.4   | 77.3  | 8.0   | 202   | 2.57  | 45    | 1.8   | 3.7   | 36    | 7.4   | 26.0  | <0.5  |
| 3208163                          | Drill Core | 6.64 | 13    | 5     | 6     | 16.3  | 58.7  | 78.5  | 957   | 1.1   | 71.2  | 6.2   | 180   | 2.24  | 42    | 1.7   | 3.2   | 46    | 3.6   | 23.5  | <0.5  |
| 3208164                          | Drill Core | 5.99 | 13    | <3    | 4     | 14.5  | 62.5  | 95.0  | 829   | 1.2   | 70.3  | 6.4   | 480   | 2.83  | 39    | 2.0   | 3.4   | 81    | <0.5  | 25.7  | <0.5  |
| 3208165                          | Drill Core | 6.74 | 15    | <3    | 5     | 16.3  | 65.1  | 99.7  | 951   | 1.2   | 72.2  | 6.5   | 571   | 3.25  | 39    | 2.1   | 3.5   | 135   | 1.5   | 24.2  | <0.5  |
| 3208166                          | Drill Core | 7.43 | 21    | <3    | 7     | 18.6  | 47.8  | 92.8  | 498   | 1.0   | 68.9  | 4.8   | 788   | 2.50  | 44    | 1.9   | 2.8   | 88    | 1.3   | 20.9  | <0.5  |
| 3208167                          | Drill Core | 7.04 | 27    | 4     | 8     | 21.5  | 50.0  | 118.4 | 1319  | 1.2   | 83.7  | 5.9   | 306   | 2.74  | 53    | 2.5   | 3.1   | 67    | 2.2   | 25.7  | <0.5  |
| 3208168                          | Drill Core | 3.76 | 36    | <3    | 6     | 16.5  | 59.1  | 106.7 | 992   | 1.4   | 74.5  | 5.6   | 302   | 2.86  | 48    | 2.3   | 2.9   | 59    | 2.0   | 26.5  | <0.5  |
| 3208169                          | Rock Pulp  | 0.08 | 133   | <3    | 4     | 1.7   | 932.6 | 64.1  | 5260  | 2.0   | 17.7  | 38.4  | 1292  | 8.04  | 87    | <0.5  | 0.6   | 63    | 14.5  | 4.2   | <0.5  |
| 3208170                          | Drill Core | 4.21 | 45    | <3    | 10    | 18.1  | 211.3 | 165.6 | 1380  | 8.1   | 79.0  | 6.3   | 377   | 3.35  | 70    | 2.5   | 3.2   | 92    | 4.0   | 103.8 | <0.5  |
| 3208171                          | Drill Core | 6.96 | 47    | <3    | 6     | 16.8  | 66.2  | 86.2  | 112   | 1.5   | 80.0  | 6.8   | 515   | 3.62  | 47    | 2.2   | 3.7   | 39    | <0.5  | 30.5  | <0.5  |
| 3208172                          | Drill Core | 7.05 | 38    | <3    | 6     | 10.1  | 62.3  | 80.5  | 369   | 1.3   | 66.6  | 10.4  | 394   | 4.41  | 48    | 1.5   | 4.4   | 36    | <0.5  | 28.0  | <0.5  |
| 3208173                          | Drill Core | 7.48 | 25    | <3    | 5     | 8.6   | 52.7  | 60.8  | 167   | 1.2   | 70.4  | 10.7  | 326   | 3.51  | 47    | 1.6   | 5.2   | 47    | <0.5  | 20.4  | <0.5  |
| 3208174                          | Drill Core | 8.19 | 11    | <3    | 4     | 4.2   | 49.9  | 32.2  | 201   | 0.7   | 57.2  | 10.9  | 1081  | 5.84  | 34    | 1.1   | 4.6   | 81    | <0.5  | 14.8  | <0.5  |
| 3208175                          | Drill Core | 8.00 | 12    | <3    | 5     | 4.3   | 75.5  | 37.2  | 162   | 0.9   | 56.1  | 10.7  | 1114  | 6.50  | 32    | 1.1   | 4.2   | 89    | <0.5  | 17.1  | <0.5  |
| 3208176                          | Drill Core | 7.62 | 14    | <3    | 5     | 5.1   | 57.0  | 39.3  | 238   | 0.9   | 66.2  | 13.5  | 670   | 6.23  | 34    | 1.2   | 4.4   | 59    | <0.5  | 16.3  | <0.5  |



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| Method<br>Analyte<br>Unit<br>MDL |            | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | LF725 | LF725 |
|----------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                  |            | V     | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | SiO2  | Al2O3 |
|                                  |            | ppm   | %     | %     | ppm   | ppm   | %     | ppm   | %     | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | %     | %     |
|                                  |            | 10    | 0.01  | 0.001 | 0.5   | 0.5   | 0.01  | 5     | 0.001 | 0.01  | 0.01  | 0.01  | 0.5   | 0.05  | 0.5   | 0.5   | 0.05  | 5     | 2     | 0.01  | 0.01  |
| 3208147                          | Drill Core | 23    | 0.51  | 0.067 | 25.5  | 7.5   | 0.25  | 443   | 0.003 | 0.40  | <0.01 | 0.26  | <0.5  | <0.05 | 2.9   | <0.5  | 0.80  | <5    | 5     | 73.70 | 10.30 |
| 3208148                          | Drill Core | 76    | 0.01  | 0.007 | 13.9  | 12.3  | 0.02  | >5000 | 0.006 | 0.39  | <0.01 | 0.15  | <0.5  | 0.29  | 1.6   | 0.7   | 0.29  | <5    | 5     | 80.50 | 8.46  |
| 3208149                          | Drill Core | 63    | <0.01 | 0.004 | 11.5  | 9.1   | 0.01  | >5000 | 0.004 | 0.34  | <0.01 | 0.14  | 1.2   | 0.17  | 1.1   | 0.5   | 0.39  | <5    | 15    | 82.20 | 7.19  |
| 3208150                          | Drill Core | 73    | 0.12  | 0.065 | 8.9   | 12.2  | 0.02  | 3604  | 0.004 | 0.57  | <0.01 | 0.15  | 1.1   | 0.13  | 2.1   | 0.8   | 1.30  | <5    | 6     | 78.60 | 7.97  |
| 3208151                          | Drill Core | 82    | 0.67  | 0.124 | 7.5   | 16.1  | 0.20  | 1200  | 0.004 | 0.96  | <0.01 | 0.16  | <0.5  | 0.15  | 2.7   | 1.2   | 2.51  | <5    | 5     | 70.70 | 8.93  |
| 3208152                          | Drill Core | 85    | 0.47  | 0.112 | 7.6   | 16.9  | 0.12  | 1823  | 0.004 | 0.91  | <0.01 | 0.15  | <0.5  | 0.15  | 2.8   | 1.4   | 2.29  | <5    | 6     | 72.90 | 8.71  |
| 3208153                          | Drill Core | 76    | 0.45  | 0.132 | 7.6   | 15.8  | 0.09  | 1618  | 0.004 | 0.81  | <0.01 | 0.16  | <0.5  | 0.13  | 2.4   | 1.4   | 2.18  | <5    | 5     | 74.90 | 8.22  |
| 3208154                          | Drill Core | 81    | 0.62  | 0.127 | 8.9   | 16.2  | 0.17  | 2497  | 0.005 | 0.86  | <0.01 | 0.16  | <0.5  | 0.12  | 2.4   | 1.5   | 1.88  | <5    | 6     | 74.90 | 8.22  |
| 3208155                          | Drill Core | 73    | 0.79  | 0.112 | 6.9   | 14.2  | 0.27  | 2138  | 0.004 | 0.81  | <0.01 | 0.14  | <0.5  | 0.14  | 2.8   | 2.2   | 2.28  | <5    | 5     | 74.90 | 7.24  |
| 3208156                          | Drill Core | 67    | 0.69  | 0.117 | 7.0   | 13.2  | 0.19  | 3161  | 0.004 | 0.95  | <0.01 | 0.14  | <0.5  | 0.09  | 2.5   | 1.0   | 1.60  | <5    | 5     | 76.10 | 7.36  |
| 3208157                          | Drill Core | 79    | 0.81  | 0.132 | 8.9   | 15.5  | 0.23  | 3079  | 0.004 | 1.07  | <0.01 | 0.16  | <0.5  | 0.09  | 3.2   | 1.1   | 1.67  | <5    | 5     | 74.70 | 8.12  |
| 3208158                          | Drill Core | 78    | 0.60  | 0.123 | 8.7   | 14.6  | 0.17  | 3334  | 0.004 | 1.12  | <0.01 | 0.15  | <0.5  | 0.11  | 2.7   | 0.9   | 1.55  | <5    | 6     | 76.30 | 7.76  |
| 3208159                          | Drill Core | 89    | 0.71  | 0.104 | 6.9   | 14.4  | 0.23  | 1904  | 0.004 | 1.23  | <0.01 | 0.16  | <0.5  | 0.11  | 3.3   | 0.9   | 1.87  | <5    | 6     | 72.80 | 8.20  |
| 3208160                          | Drill Core | 85    | 1.18  | 0.088 | 7.7   | 14.4  | 0.41  | 4041  | 0.004 | 1.21  | <0.01 | 0.15  | <0.5  | <0.05 | 3.5   | 0.7   | 1.37  | <5    | 4     | 72.90 | 7.43  |
| 3208161                          | Drill Core | 67    | 0.46  | 0.107 | 7.8   | 13.7  | 0.11  | 1803  | 0.004 | 1.34  | <0.01 | 0.16  | <0.5  | 0.12  | 2.9   | 1.3   | 1.99  | <5    | 5     | 73.60 | 8.27  |
| 3208162                          | Drill Core | 84    | 0.24  | 0.104 | 7.3   | 13.8  | 0.04  | 1353  | 0.004 | 1.01  | <0.01 | 0.16  | <0.5  | 0.20  | 2.3   | 1.3   | 2.35  | <5    | 8     | 74.50 | 8.60  |
| 3208163                          | Drill Core | 69    | 0.39  | 0.110 | 7.6   | 12.3  | 0.08  | 2026  | 0.004 | 1.07  | <0.01 | 0.14  | <0.5  | 0.13  | 2.4   | 1.1   | 1.90  | <5    | 6     | 75.90 | 7.81  |
| 3208164                          | Drill Core | 60    | 0.71  | 0.109 | 7.1   | 12.2  | 0.22  | 1640  | 0.004 | 1.20  | <0.01 | 0.14  | <0.5  | 0.13  | 2.8   | 1.5   | 2.21  | <5    | 6     | 72.40 | 8.20  |
| 3208165                          | Drill Core | 80    | 1.09  | 0.113 | 7.8   | 16.8  | 0.36  | 1368  | 0.005 | 1.22  | <0.01 | 0.17  | <0.5  | 0.09  | 3.3   | 1.3   | 2.67  | <5    | 5     | 71.30 | 7.80  |
| 3208166                          | Drill Core | 68    | 0.66  | 0.124 | 7.6   | 15.4  | 0.17  | 2794  | 0.004 | 0.72  | <0.01 | 0.14  | <0.5  | 0.18  | 3.2   | 1.3   | 1.89  | <5    | 8     | 77.10 | 6.22  |
| 3208167                          | Drill Core | 76    | 0.38  | 0.146 | 9.3   | 15.2  | 0.05  | 1688  | 0.004 | 1.23  | <0.01 | 0.15  | <0.5  | 0.16  | 2.8   | 1.3   | 2.26  | <5    | 7     | 73.30 | 7.77  |
| 3208168                          | Drill Core | 67    | 0.29  | 0.138 | 10.2  | 14.1  | 0.02  | 1241  | 0.005 | 1.39  | <0.01 | 0.13  | <0.5  | 0.19  | 2.7   | 1.8   | 2.33  | <5    | 8     | 74.50 | 7.42  |
| 3208169                          | Rock Pulp  | 149   | 3.67  | 0.060 | 4.8   | 26.1  | 2.11  | 131   | 0.169 | 3.48  | 0.14  | 0.22  | 1.1   | 0.45  | 23.6  | 0.6   | 1.56  | 9     | 5     | 51.50 | 13.10 |
| 3208170                          | Drill Core | 98    | 0.40  | 0.119 | 9.4   | 20.1  | 0.08  | 1250  | 0.011 | 2.00  | <0.01 | 0.25  | <0.5  | 0.39  | 3.9   | 1.3   | 2.57  | <5    | 7     | 70.80 | 8.19  |
| 3208171                          | Drill Core | 67    | 0.24  | 0.114 | 11.0  | 14.2  | 0.02  | 957   | 0.004 | 1.42  | <0.01 | 0.15  | <0.5  | 0.24  | 2.7   | 1.0   | 3.08  | <5    | 7     | 72.00 | 8.28  |
| 3208172                          | Drill Core | 36    | 0.18  | 0.078 | 11.0  | 8.9   | 0.02  | 655   | 0.003 | 1.11  | <0.01 | 0.15  | <0.5  | 0.13  | 2.2   | 0.9   | 4.28  | <5    | 5     | 69.70 | 9.58  |
| 3208173                          | Drill Core | 31    | 0.19  | 0.088 | 13.2  | 10.2  | 0.02  | 975   | 0.003 | 0.79  | <0.01 | 0.15  | <0.5  | 0.24  | 1.8   | 0.9   | 3.49  | <5    | 4     | 71.40 | 10.40 |
| 3208174                          | Drill Core | 26    | 0.28  | 0.067 | 12.1  | 9.8   | 0.06  | 399   | 0.005 | 0.83  | <0.01 | 0.22  | <0.5  | 0.21  | 2.6   | <0.5  | 6.03  | <5    | 4     | 65.70 | 10.70 |
| 3208175                          | Drill Core | 27    | 0.36  | 0.083 | 10.9  | 9.6   | 0.07  | 276   | 0.004 | 0.72  | <0.01 | 0.20  | <0.5  | 0.18  | 2.0   | <0.5  | 7.01  | <5    | 4     | 65.80 | 9.87  |
| 3208176                          | Drill Core | 27    | 0.16  | 0.066 | 12.5  | 8.6   | 0.02  | 363   | 0.004 | 0.58  | <0.01 | 0.17  | <0.5  | 0.15  | 2.0   | 0.6   | 6.70  | <5    | 4     | 66.80 | 9.95  |



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**Client:** **Fireweed Zinc Ltd.**  
Suite 1020, 800 Pender Street  
Vancouver British Columbia V5C 2V6 Canada

**Project:** MacMillan Pass  
**Report Date:** November 10, 2018

**Page:** 2 of 3

**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI18000939.1

| Method<br>Analyte<br>Unit<br>MDL |            | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725  | LF725 | LF725 | LF725 |
|----------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
|                                  |            | Fe2O3 | CaO   | MgO   | K2O   | MnO   | TiO2  | P2O5  | Cr2O3 | Ba    | Cu    | Pb    | Zn    | LOI   | SUM_T  | TC006 | TC000 | TC000 |
|                                  |            | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %      | %     | %     | %     |
|                                  |            | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | -5.11  | 0.01  | 0.02  | 0.02  |
| 3208147                          | Drill Core | 4.88  | 0.73  | 0.79  | 2.87  | 0.10  | 0.58  | 0.15  | 0.01  | 0.46  | <0.01 | <0.01 | <0.01 | 4.80  | 99.53  | 2.12  | 1.69  | 0.76  |
| 3208148                          | Drill Core | 0.72  | 0.02  | 0.44  | 1.96  | 0.02  | 0.50  | 0.02  | 0.02  | 2.48  | <0.01 | 0.02  | <0.01 | 4.03  | 99.55  | <0.02 | 1.94  | 0.42  |
| 3208149                          | Drill Core | 0.70  | 0.01  | 0.37  | 1.68  | 0.02  | 0.42  | 0.01  | 0.01  | 2.07  | <0.01 | <0.01 | <0.01 | 4.12  | 99.10  | <0.02 | 2.46  | 0.49  |
| 3208150                          | Drill Core | 2.47  | 0.18  | 0.39  | 1.71  | 0.03  | 0.42  | 0.15  | 0.01  | 2.01  | <0.01 | <0.01 | 0.02  | 5.41  | 99.65  | 0.04  | 2.62  | 1.47  |
| 3208151                          | Drill Core | 4.68  | 0.97  | 0.72  | 1.80  | 0.05  | 0.44  | 0.28  | 0.02  | 2.46  | <0.01 | <0.01 | 0.12  | 7.24  | 98.78  | 0.84  | 3.11  | 2.89  |
| 3208152                          | Drill Core | 4.21  | 0.67  | 0.56  | 1.75  | 0.05  | 0.43  | 0.26  | 0.02  | 2.19  | <0.01 | 0.01  | 0.22  | 6.88  | 99.21  | 0.57  | 3.07  | 2.58  |
| 3208153                          | Drill Core | 3.51  | 0.63  | 0.50  | 1.71  | 0.04  | 0.42  | 0.30  | 0.02  | 2.09  | <0.01 | <0.01 | 0.19  | 6.47  | 99.32  | 0.43  | 2.95  | 2.42  |
| 3208154                          | Drill Core | 3.16  | 0.89  | 0.64  | 1.70  | 0.04  | 0.43  | 0.30  | 0.02  | 2.12  | <0.01 | <0.01 | 0.11  | 6.38  | 99.22  | 0.65  | 3.06  | 2.07  |
| 3208155                          | Drill Core | 3.98  | 1.13  | 0.78  | 1.46  | 0.07  | 0.37  | 0.24  | 0.01  | 2.07  | <0.01 | <0.01 | 0.22  | 6.63  | 99.45  | 1.18  | 3.00  | 2.51  |
| 3208156                          | Drill Core | 3.17  | 1.00  | 0.66  | 1.43  | 0.06  | 0.39  | 0.27  | 0.01  | 2.48  | <0.01 | <0.01 | 0.16  | 6.07  | 99.53  | 0.97  | 3.07  | 1.94  |
| 3208157                          | Drill Core | 3.26  | 1.17  | 0.74  | 1.60  | 0.05  | 0.42  | 0.31  | 0.02  | 2.71  | <0.01 | <0.01 | 0.04  | 5.99  | 99.50  | 0.99  | 2.91  | 2.03  |
| 3208158                          | Drill Core | 3.18  | 0.87  | 0.59  | 1.48  | 0.05  | 0.40  | 0.27  | 0.02  | 2.81  | <0.01 | <0.01 | 0.09  | 5.80  | 100.04 | 0.85  | 2.94  | 1.93  |
| 3208159                          | Drill Core | 3.72  | 1.02  | 0.71  | 1.56  | 0.07  | 0.43  | 0.24  | 0.01  | 3.29  | <0.01 | <0.01 | 0.23  | 6.47  | 99.21  | 1.21  | 2.94  | 2.44  |
| 3208160                          | Drill Core | 3.32  | 1.66  | 1.02  | 1.38  | 0.09  | 0.39  | 0.20  | 0.01  | 3.15  | <0.01 | <0.01 | 0.12  | 6.64  | 98.75  | 1.74  | 3.19  | 1.84  |
| 3208161                          | Drill Core | 3.85  | 0.63  | 0.50  | 1.54  | 0.06  | 0.43  | 0.25  | 0.01  | 3.41  | <0.01 | <0.01 | 0.23  | 6.21  | 99.51  | 0.54  | 2.72  | 2.57  |
| 3208162                          | Drill Core | 3.81  | 0.38  | 0.41  | 1.74  | 0.05  | 0.45  | 0.23  | 0.02  | 2.62  | <0.01 | 0.01  | 0.27  | 6.06  | 99.55  | 0.25  | 2.74  | 2.67  |
| 3208163                          | Drill Core | 3.48  | 0.58  | 0.45  | 1.50  | 0.05  | 0.41  | 0.27  | 0.01  | 2.80  | <0.01 | 0.01  | 0.10  | 5.76  | 99.52  | 0.33  | 2.79  | 2.41  |
| 3208164                          | Drill Core | 4.22  | 1.05  | 0.70  | 1.50  | 0.09  | 0.42  | 0.26  | 0.02  | 3.57  | <0.01 | 0.01  | 0.08  | 6.51  | 99.49  | 1.03  | 2.85  | 2.88  |
| 3208165                          | Drill Core | 4.89  | 1.56  | 0.95  | 1.47  | 0.10  | 0.41  | 0.27  | 0.02  | 3.08  | <0.01 | 0.01  | 0.10  | 7.09  | 99.46  | 1.69  | 2.97  | 3.21  |
| 3208166                          | Drill Core | 3.71  | 0.96  | 0.55  | 1.32  | 0.12  | 0.32  | 0.27  | 0.02  | 1.95  | <0.01 | <0.01 | 0.05  | 6.27  | 99.14  | 0.99  | 3.61  | 2.07  |
| 3208167                          | Drill Core | 4.07  | 0.58  | 0.37  | 1.42  | 0.06  | 0.40  | 0.33  | 0.02  | 3.17  | <0.01 | 0.01  | 0.13  | 7.54  | 99.63  | 0.36  | 4.23  | 2.85  |
| 3208168                          | Drill Core | 4.26  | 0.44  | 0.28  | 1.23  | 0.06  | 0.38  | 0.31  | 0.01  | 3.65  | <0.01 | 0.01  | 0.10  | 6.78  | 99.93  | 0.19  | 3.48  | 2.98  |
| 3208169                          | Rock Pulp  | 12.90 | 6.89  | 3.92  | 0.51  | 0.21  | 0.59  | 0.13  | <0.01 | 0.02  | 0.09  | <0.01 | 0.54  | 4.59  | 97.71  | 3.20  | 1.00  | 1.49  |
| 3208170                          | Drill Core | 4.85  | 0.60  | 0.36  | 1.31  | 0.07  | 0.42  | 0.27  | 0.02  | 5.25  | 0.02  | 0.02  | 0.13  | 6.71  | 99.73  | 0.38  | 3.12  | 3.54  |
| 3208171                          | Drill Core | 5.24  | 0.36  | 0.32  | 1.43  | 0.09  | 0.43  | 0.26  | 0.02  | 3.58  | <0.01 | <0.01 | 0.01  | 6.65  | 99.15  | 0.22  | 2.80  | 3.74  |
| 3208172                          | Drill Core | 6.44  | 0.27  | 0.40  | 1.73  | 0.08  | 0.53  | 0.19  | 0.01  | 3.08  | <0.01 | 0.01  | 0.04  | 6.84  | 99.32  | 0.20  | 1.94  | 4.72  |
| 3208173                          | Drill Core | 5.15  | 0.30  | 0.44  | 2.02  | 0.07  | 0.57  | 0.21  | 0.02  | 2.29  | <0.01 | <0.01 | 0.02  | 6.07  | 99.29  | 0.17  | 1.75  | 3.65  |
| 3208174                          | Drill Core | 8.52  | 0.40  | 0.58  | 2.40  | 0.16  | 0.61  | 0.17  | 0.01  | 2.36  | <0.01 | <0.01 | 0.02  | 7.06  | 99.02  | 0.36  | 1.18  | 6.30  |
| 3208175                          | Drill Core | 9.60  | 0.53  | 0.59  | 2.25  | 0.17  | 0.56  | 0.21  | 0.01  | 2.10  | <0.01 | <0.01 | 0.02  | 7.41  | 99.42  | 0.43  | 1.21  | 7.29  |
| 3208176                          | Drill Core | 9.07  | 0.23  | 0.49  | 2.24  | 0.11  | 0.56  | 0.16  | 0.02  | 1.84  | <0.01 | <0.01 | 0.03  | 7.23  | 98.99  | 0.26  | 1.27  | 6.79  |



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**Project:** MacMillan Pass  
**Report Date:** November 10, 2018

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI18000939.1

|         | Method     | Analyte | Unit | MDL | WGHT | FA330 | FA330 | FA330 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 |     |     |     |
|---------|------------|---------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
|         |            |         |      |     | Wgt  | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Th    | Sr    | Cd  | Sb  | Bi  |
|         |            |         |      |     | kg   | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm | ppm | ppm |
|         |            |         |      |     | 0.01 | 2     | 3     | 2     | 0.5   | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   | 5     | 0.01  | 5     | 0.5   | 0.5   | 5     | 0.5 | 0.5 | 0.5 |
| 3208177 | Drill Core | 7.46    | 10   | <3  | 5    | 5.3   | 61.7  | 38.2  | 245   | 0.8   | 73.4  | 13.7  | 1739  | 4.86  | 33    | 1.3   | 5.4   | 62    | <0.5  | 15.3  | <0.5  |     |     |     |
| 3208178 | Drill Core | 8.19    | 17   | 6   | 4    | 5.4   | 60.0  | 46.7  | 189   | 1.0   | 64.3  | 11.1  | 1561  | 6.90  | 35    | 1.5   | 5.7   | 63    | <0.5  | 17.3  | <0.5  |     |     |     |
| 3208179 | Drill Core | 2.74    | 8    | 7   | 10   | 18.7  | 178.0 | 60.3  | 100   | 0.6   | 36.0  | 4.8   | 26    | 1.55  | 18    | 1.6   | 4.2   | 6     | 0.7   | 9.5   | <0.5  |     |     |     |
| 3208180 | Drill Core | 3.85    | 9    | 8   | 8    | 17.7  | 163.3 | 98.4  | 587   | 1.0   | 75.7  | 8.1   | 55    | 2.55  | 31    | 2.1   | 4.6   | 34    | 5.8   | 15.4  | <0.5  |     |     |     |
| 3208181 | Drill Core | 6.64    | 9    | <3  | 5    | 13.6  | 44.9  | 72.1  | 1083  | 0.7   | 69.1  | 8.3   | 362   | 3.04  | 25    | 2.2   | 4.3   | 166   | 5.1   | 12.0  | <0.5  |     |     |     |
| 3208182 | Drill Core | 7.59    | 9    | <3  | 5    | 16.6  | 45.4  | 63.7  | 1229  | 0.7   | 74.8  | 7.2   | 168   | 2.00  | 30    | 2.2   | 5.0   | 93    | 9.2   | 15.0  | <0.5  |     |     |     |
| 3208183 | Drill Core | 7.09    | 7    | 4   | 3    | 14.4  | 50.5  | 78.3  | 1166  | 0.8   | 68.6  | 7.5   | 281   | 2.79  | 25    | 2.0   | 4.1   | 135   | 3.3   | 14.9  | <0.5  |     |     |     |
| 3208184 | Drill Core | 6.91    | 9    | 4   | 4    | 14.5  | 46.9  | 75.4  | 1626  | 0.8   | 66.0  | 8.5   | 322   | 2.62  | 32    | 1.8   | 4.2   | 113   | 4.8   | 13.8  | <0.5  |     |     |     |
| 3208185 | Drill Core | 6.67    | 9    | 9   | 5    | 16.4  | 59.0  | 91.2  | 798   | 0.8   | 68.4  | 6.8   | 274   | 3.78  | 60    | 2.2   | 4.2   | 120   | 2.6   | 15.5  | <0.5  |     |     |     |
| 3208186 | Drill Core | 7.52    | 9    | 5   | 9    | 16.2  | 46.7  | 72.3  | 977   | 0.8   | 70.5  | 8.1   | 471   | 2.82  | 34    | 2.4   | 4.5   | 114   | 1.6   | 11.9  | <0.5  |     |     |     |
| 3208187 | Drill Core | 6.68    | 11   | 6   | 10   | 16.2  | 56.3  | 85.5  | 651   | 0.8   | 66.9  | 6.7   | 404   | 3.08  | 38    | 2.2   | 4.0   | 92    | 1.0   | 14.3  | <0.5  |     |     |     |
| 3208188 | Drill Core | 7.94    | 10   | 5   | 5    | 16.7  | 45.9  | 68.7  | 453   | 0.7   | 68.3  | 6.0   | 196   | 2.24  | 35    | 2.3   | 3.9   | 65    | 1.4   | 14.6  | <0.5  |     |     |     |
| 3208189 | Drill Core | 7.49    | 12   | 12  | 16   | 18.7  | 48.3  | 79.5  | 1009  | 0.7   | 74.3  | 6.6   | 811   | 3.08  | 43    | 2.7   | 3.4   | 68    | 3.8   | 16.9  | <0.5  |     |     |     |
| 3208190 | Rock       | 1.29    | <2   | <3  | <2   | 0.9   | 6.2   | 1.4   | 38    | <0.5  | 1.7   | 5.2   | 647   | 2.20  | <5    | <0.5  | 2.1   | 31    | <0.5  | <0.5  | <0.5  |     |     |     |
| 3208191 | Drill Core | 7.01    | 13   | <3  | 7    | 17.4  | 57.2  | 81.6  | 1211  | 0.9   | 64.4  | 5.9   | 153   | 2.31  | 39    | 1.9   | 3.4   | 49    | 7.5   | 18.0  | <0.5  |     |     |     |



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**Project:** MacMillan Pass  
**Report Date:** November 10, 2018

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

WHI18000939.1

|         | Method<br>Analyte<br>Unit<br>MDL | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | LF725 | LF725 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | V     | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | SiO2  | Al2O3 |
|         |                                  | ppm   | %     | %     | ppm   | ppm   | %     | ppm   | %     | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | %     | %     |
|         |                                  | 10    | 0.01  | 0.001 | 0.5   | 0.5   | 0.01  | 5     | 0.001 | 0.01  | 0.01  | 0.01  | 0.01  | 0.5   | 0.05  | 0.5   | 0.5   | 0.05  | 5     | 2     | 0.01  |
| 3208177 | Drill Core                       | 27    | 0.20  | 0.087 | 15.5  | 9.1   | 0.02  | 687   | 0.004 | 0.50  | <0.01 | 0.19  | <0.5  | 0.22  | 2.3   | 0.7   | 4.73  | <5    | 5     | 70.00 | 9.78  |
| 3208178 | Drill Core                       | 31    | 0.18  | 0.076 | 13.2  | 9.2   | 0.03  | 249   | 0.004 | 0.52  | <0.01 | 0.19  | <0.5  | 0.27  | 2.9   | 0.6   | 7.01  | <5    | 7     | 65.60 | 9.70  |
| 3208179 | Drill Core                       | 63    | <0.01 | 0.015 | 9.2   | 12.0  | 0.02  | 1137  | 0.003 | 0.36  | <0.01 | 0.16  | <0.5  | 0.15  | 2.4   | 0.8   | 1.31  | <5    | 7     | 80.10 | 8.17  |
| 3208180 | Drill Core                       | 78    | 0.17  | 0.065 | 9.0   | 14.9  | 0.05  | 1248  | 0.005 | 0.48  | <0.01 | 0.18  | <0.5  | 0.12  | 3.5   | 1.3   | 2.53  | <5    | 6     | 75.70 | 8.62  |
| 3208181 | Drill Core                       | 94    | 1.52  | 0.115 | 7.8   | 18.7  | 0.62  | 1121  | 0.005 | 0.56  | <0.01 | 0.18  | <0.5  | 0.05  | 2.4   | 0.8   | 2.62  | <5    | 7     | 69.80 | 8.18  |
| 3208182 | Drill Core                       | 83    | 0.66  | 0.120 | 9.6   | 16.1  | 0.26  | 2072  | 0.005 | 0.65  | <0.01 | 0.20  | <0.5  | <0.05 | 3.1   | 1.1   | 1.86  | <5    | 7     | 75.10 | 8.78  |
| 3208183 | Drill Core                       | 80    | 1.42  | 0.110 | 7.0   | 17.3  | 0.57  | 854   | 0.004 | 0.70  | <0.01 | 0.17  | <0.5  | 0.08  | 2.8   | 1.1   | 2.38  | <5    | 6     | 69.60 | 8.02  |
| 3208184 | Drill Core                       | 82    | 1.22  | 0.122 | 8.8   | 17.7  | 0.48  | 1635  | 0.005 | 0.88  | <0.01 | 0.19  | <0.5  | 0.11  | 3.3   | 1.0   | 2.04  | <5    | 8     | 71.50 | 8.16  |
| 3208185 | Drill Core                       | 80    | 1.07  | 0.113 | 7.4   | 16.0  | 0.43  | 645   | 0.006 | 1.03  | <0.01 | 0.17  | <0.5  | 0.11  | 3.3   | 1.3   | 3.36  | <5    | 7     | 69.60 | 7.78  |
| 3208186 | Drill Core                       | 81    | 1.23  | 0.117 | 10.2  | 16.0  | 0.49  | 1477  | 0.005 | 1.49  | <0.01 | 0.16  | <0.5  | 0.09  | 4.8   | 1.0   | 1.78  | <5    | 6     | 69.90 | 8.10  |
| 3208187 | Drill Core                       | 82    | 1.04  | 0.123 | 9.0   | 15.5  | 0.42  | 1068  | 0.004 | 1.61  | <0.01 | 0.16  | <0.5  | 0.13  | 5.7   | 1.7   | 2.09  | <5    | 7     | 69.60 | 8.13  |
| 3208188 | Drill Core                       | 78    | 0.74  | 0.116 | 10.3  | 15.0  | 0.29  | 2547  | 0.004 | 1.85  | <0.01 | 0.14  | <0.5  | 0.07  | 5.4   | 1.1   | 1.28  | <5    | 7     | 72.80 | 7.89  |
| 3208189 | Drill Core                       | 81    | 0.61  | 0.128 | 9.7   | 15.6  | 0.20  | 1551  | 0.004 | 1.76  | <0.01 | 0.12  | <0.5  | 0.09  | 5.7   | 1.3   | 1.73  | <5    | 8     | 72.30 | 7.19  |
| 3208190 | Rock                             | 33    | 0.85  | 0.045 | 6.0   | 2.3   | 0.59  | 91    | 0.110 | 1.15  | 0.09  | 0.11  | <0.5  | <0.05 | 6.1   | <0.5  | <0.05 | <5    | <2    | 69.90 | 14.30 |
| 3208191 | Drill Core                       | 95    | 0.49  | 0.092 | 11.3  | 14.0  | 0.17  | 2190  | 0.004 | 2.08  | <0.01 | 0.13  | <0.5  | 0.20  | 5.2   | 1.5   | 1.34  | <5    | 8     | 74.30 | 7.36  |



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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI18000939.1

| Method<br>Analyte<br>Unit<br>MDL |            | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | TC006 | TC000 | TC000 |
|----------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                  |            | Fe2O3 | CaO   | MgO   | K2O   | MnO   | TiO2  | P2O5  | Cr2O3 | Ba    | Cu    | Pb    | Zn    | LOI   | SUM_T | CO2   | TOT/C | TOT/S |
|                                  |            | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     |
|                                  |            | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | -5.11 | 0.01  | 0.02  | 0.02  | 0.02  |
| 3208177                          | Drill Core | 7.08  | 0.28  | 0.48  | 2.27  | 0.23  | 0.55  | 0.20  | 0.01  | 1.55  | <0.01 | <0.01 | 0.02  | 6.30  | 99.00 | 0.50  | 1.28  | 4.58  |
| 3208178                          | Drill Core | 9.82  | 0.25  | 0.48  | 2.23  | 0.23  | 0.54  | 0.18  | 0.01  | 1.51  | <0.01 | <0.01 | 0.02  | 7.72  | 98.54 | 0.51  | 1.40  | 7.24  |
| 3208179                          | Drill Core | 2.35  | 0.01  | 0.42  | 1.89  | 0.03  | 0.42  | 0.03  | 0.02  | 0.95  | 0.02  | <0.01 | <0.01 | 4.86  | 99.46 | 0.03  | 2.62  | 1.36  |
| 3208180                          | Drill Core | 3.67  | 0.25  | 0.47  | 1.95  | 0.03  | 0.43  | 0.15  | 0.02  | 1.37  | 0.01  | <0.01 | 0.06  | 6.17  | 99.13 | 0.12  | 2.85  | 2.61  |
| 3208181                          | Drill Core | 4.43  | 2.15  | 1.40  | 1.79  | 0.07  | 0.41  | 0.24  | 0.02  | 1.51  | <0.01 | <0.01 | 0.11  | 8.56  | 98.94 | 2.23  | 3.55  | 2.69  |
| 3208182                          | Drill Core | 2.99  | 0.94  | 0.75  | 1.91  | 0.04  | 0.44  | 0.26  | 0.02  | 1.43  | <0.01 | <0.01 | 0.12  | 6.82  | 99.85 | 0.81  | 3.21  | 1.99  |
| 3208183                          | Drill Core | 4.13  | 2.02  | 1.30  | 1.69  | 0.06  | 0.41  | 0.24  | 0.02  | 2.80  | <0.01 | <0.01 | 0.12  | 8.31  | 99.12 | 2.61  | 3.30  | 2.93  |
| 3208184                          | Drill Core | 3.82  | 1.73  | 1.16  | 1.69  | 0.06  | 0.41  | 0.25  | 0.02  | 2.20  | <0.01 | <0.01 | 0.16  | 7.98  | 99.48 | 1.99  | 3.49  | 2.38  |
| 3208185                          | Drill Core | 5.41  | 1.50  | 1.00  | 1.53  | 0.06  | 0.40  | 0.25  | 0.02  | 3.04  | <0.01 | <0.01 | 0.08  | 7.94  | 99.02 | 1.65  | 2.90  | 3.87  |
| 3208186                          | Drill Core | 4.14  | 1.73  | 1.11  | 1.42  | 0.08  | 0.41  | 0.24  | 0.02  | 3.66  | <0.01 | <0.01 | 0.10  | 7.62  | 99.02 | 1.89  | 3.13  | 2.57  |
| 3208187                          | Drill Core | 4.46  | 1.47  | 0.95  | 1.37  | 0.07  | 0.42  | 0.27  | 0.02  | 4.18  | <0.01 | <0.01 | 0.07  | 7.54  | 99.08 | 1.45  | 3.06  | 3.04  |
| 3208188                          | Drill Core | 3.26  | 1.06  | 0.70  | 1.17  | 0.05  | 0.40  | 0.25  | 0.02  | 4.97  | <0.01 | <0.01 | 0.04  | 6.40  | 99.65 | 0.90  | 2.81  | 2.34  |
| 3208189                          | Drill Core | 4.33  | 0.88  | 0.54  | 1.00  | 0.12  | 0.35  | 0.28  | 0.01  | 4.62  | <0.01 | <0.01 | 0.10  | 6.96  | 99.26 | 0.99  | 2.86  | 2.74  |
| 3208190                          | Rock       | 3.62  | 2.51  | 1.18  | 1.88  | 0.12  | 0.38  | 0.10  | <0.01 | 0.09  | <0.01 | <0.01 | <0.01 | 1.31  | 99.91 | 0.14  | 0.13  | <0.02 |
| 3208191                          | Drill Core | 3.31  | 0.68  | 0.47  | 0.95  | 0.04  | 0.37  | 0.21  | 0.01  | 5.12  | <0.01 | <0.01 | 0.12  | 6.09  | 99.69 | 0.56  | 2.70  | 2.51  |



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**Project:**

MacMillan Pass

**Report Date:**

November 10, 2018

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## QUALITY CONTROL REPORT

WHI18000939.1

|                        | Method     | WGHT | FA330 | FA330 | FA330 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 |
|------------------------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        | Analyte    | Wgt  | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Th    | Sr    | Cd    | Sb    | Bi    |
|                        | Unit       | kg   | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                        | MDL        | 0.01 | 2     | 3     | 2     | 0.5   | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   | 5     | 0.01  | 5     | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   |
| 3208181                | Drill Core | 6.64 | 9     | <3    | 5     | 13.6  | 44.9  | 72.1  | 1083  | 0.7   | 69.1  | 8.3   | 362   | 3.04  | 25    | 2.2   | 4.3   | 166   | 5.1   | 12.0  | <0.5  |
| Pulp Duplicates        |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208147                | Drill Core | 5.80 | 11    | 3     | 4     | 4.0   | 77.6  | 32.4  | 44    | 0.6   | 48.4  | 10.4  | 614   | 3.10  | 27    | 0.8   | 5.6   | 41    | <0.5  | 5.0   | <0.5  |
| REP 3208147            | QC         |      | 10    | <3    | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208153                | Drill Core | 6.87 | 11    | 4     | 10    | 18.1  | 56.1  | 62.7  | 1958  | 1.0   | 81.4  | 7.9   | 156   | 2.41  | 32    | 1.8   | 3.5   | 59    | 11.4  | 14.6  | <0.5  |
| REP 3208153            | QC         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208155                | Drill Core | 4.93 | 11    | <3    | 5     | 16.0  | 47.3  | 86.5  | 2173  | 1.0   | 78.8  | 7.1   | 357   | 2.69  | 35    | 1.5   | 3.0   | 100   | 9.1   | 14.5  | <0.5  |
| REP 3208155            | QC         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208165                | Drill Core | 6.74 | 15    | <3    | 5     | 16.3  | 65.1  | 99.7  | 951   | 1.2   | 72.2  | 6.5   | 571   | 3.25  | 39    | 2.1   | 3.5   | 135   | 1.5   | 24.2  | <0.5  |
| REP 3208165            | QC         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| REP 3208166            | QC         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208168                | Drill Core | 3.76 | 36    | <3    | 6     | 16.5  | 59.1  | 106.7 | 992   | 1.4   | 74.5  | 5.6   | 302   | 2.86  | 48    | 2.3   | 2.9   | 59    | 2.0   | 26.5  | <0.5  |
| REP 3208168            | QC         |      | 37    | <3    | 7     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208169                | Rock Pulp  | 0.08 | 133   | <3    | 4     | 1.7   | 932.6 | 64.1  | 5260  | 2.0   | 17.7  | 38.4  | 1292  | 8.04  | 87    | <0.5  | 0.6   | 63    | 14.5  | 4.2   | <0.5  |
| REP 3208169            | QC         |      |       |       |       | 1.9   | 942.1 | 64.4  | 5304  | 2.1   | 21.0  | 38.2  | 1292  | 8.04  | 90    | <0.5  | 0.6   | 64    | 14.2  | 4.1   | <0.5  |
| 3208178                | Drill Core | 8.19 | 17    | 6     | 4     | 5.4   | 60.0  | 46.7  | 189   | 1.0   | 64.3  | 11.1  | 1561  | 6.90  | 35    | 1.5   | 5.7   | 63    | <0.5  | 17.3  | <0.5  |
| REP 3208178            | QC         |      | 16    | 5     | 7     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208185                | Drill Core | 6.67 | 9     | 9     | 5     | 16.4  | 59.0  | 91.2  | 798   | 0.8   | 68.4  | 6.8   | 274   | 3.78  | 60    | 2.2   | 4.2   | 120   | 2.6   | 15.5  | <0.5  |
| REP 3208185            | QC         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208187                | Drill Core | 6.68 | 11    | 6     | 10    | 16.2  | 56.3  | 85.5  | 651   | 0.8   | 66.9  | 6.7   | 404   | 3.08  | 38    | 2.2   | 4.0   | 92    | 1.0   | 14.3  | <0.5  |
| REP 3208187            | QC         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Core Reject Duplicates |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208166                | Drill Core | 7.43 | 21    | <3    | 7     | 18.6  | 47.8  | 92.8  | 498   | 1.0   | 68.9  | 4.8   | 788   | 2.50  | 44    | 1.9   | 2.8   | 88    | 1.3   | 20.9  | <0.5  |
| DUP 3208166            | QC         |      | 35    | 4     | 5     | 17.8  | 46.0  | 92.2  | 493   | 1.0   | 67.2  | 4.8   | 890   | 2.61  | 43    | 2.0   | 2.8   | 96    | 1.5   | 19.6  | <0.5  |
| Reference Materials    |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard   |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard   |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard   |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard   |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |





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**Project:**

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**Report Date:**

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## QUALITY CONTROL REPORT

WHI18000939.1

|                        | Method<br>Analyte<br>Unit<br>MDL | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | LF725 | LF725 |
|------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        |                                  | V     | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | SiO2  | Al2O3 |
|                        |                                  | ppm   | %     | %     | ppm   | ppm   | %     | ppm   | %     | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | %     | %     |
|                        |                                  | 10    | 0.01  | 0.001 | 0.5   | 0.5   | 0.01  | 5     | 0.001 | 0.01  | 0.01  | 0.01  | 0.5   | 0.05  | 0.5   | 0.5   | 0.05  | 5     | 2     | 0.01  | 0.01  |
| 3208181                | Drill Core                       | 94    | 1.52  | 0.115 | 7.8   | 18.7  | 0.62  | 1121  | 0.005 | 0.56  | <0.01 | 0.18  | <0.5  | 0.05  | 2.4   | 0.8   | 2.62  | <5    | 7     | 69.80 | 8.18  |
| Pulp Duplicates        |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208147                | Drill Core                       | 23    | 0.51  | 0.067 | 25.5  | 7.5   | 0.25  | 443   | 0.003 | 0.40  | <0.01 | 0.26  | <0.5  | <0.05 | 2.9   | <0.5  | 0.80  | <5    | 5     | 73.70 | 10.30 |
| REP 3208147            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208153                | Drill Core                       | 76    | 0.45  | 0.132 | 7.6   | 15.8  | 0.09  | 1618  | 0.004 | 0.81  | <0.01 | 0.16  | <0.5  | 0.13  | 2.4   | 1.4   | 2.18  | <5    | 5     | 74.90 | 8.22  |
| REP 3208153            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 74.90 | 8.20  |
| 3208155                | Drill Core                       | 73    | 0.79  | 0.112 | 6.9   | 14.2  | 0.27  | 2138  | 0.004 | 0.81  | <0.01 | 0.14  | <0.5  | 0.14  | 2.8   | 2.2   | 2.28  | <5    | 5     | 74.90 | 7.24  |
| REP 3208155            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 74.80 | 7.24  |
| 3208165                | Drill Core                       | 80    | 1.09  | 0.113 | 7.8   | 16.8  | 0.36  | 1368  | 0.005 | 1.22  | <0.01 | 0.17  | <0.5  | 0.09  | 3.3   | 1.3   | 2.67  | <5    | 5     | 71.30 | 7.80  |
| REP 3208165            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| REP 3208166            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 77.20 | 6.21  |
| 3208168                | Drill Core                       | 67    | 0.29  | 0.138 | 10.2  | 14.1  | 0.02  | 1241  | 0.005 | 1.39  | <0.01 | 0.13  | <0.5  | 0.19  | 2.7   | 1.8   | 2.33  | <5    | 8     | 74.50 | 7.42  |
| REP 3208168            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208169                | Rock Pulp                        | 149   | 3.67  | 0.060 | 4.8   | 26.1  | 2.11  | 131   | 0.169 | 3.48  | 0.14  | 0.22  | 1.1   | 0.45  | 23.6  | 0.6   | 1.56  | 9     | 5     | 51.50 | 13.10 |
| REP 3208169            | QC                               | 149   | 3.65  | 0.061 | 4.8   | 26.5  | 2.14  | 124   | 0.171 | 3.52  | 0.14  | 0.23  | 1.0   | 0.42  | 23.9  | 0.6   | 1.54  | 10    | 4     |       |       |
| 3208178                | Drill Core                       | 31    | 0.18  | 0.076 | 13.2  | 9.2   | 0.03  | 249   | 0.004 | 0.52  | <0.01 | 0.19  | <0.5  | 0.27  | 2.9   | 0.6   | 7.01  | <5    | 7     | 65.60 | 9.70  |
| REP 3208178            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208185                | Drill Core                       | 80    | 1.07  | 0.113 | 7.4   | 16.0  | 0.43  | 645   | 0.006 | 1.03  | <0.01 | 0.17  | <0.5  | 0.11  | 3.3   | 1.3   | 3.36  | <5    | 7     | 69.60 | 7.78  |
| REP 3208185            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 69.40 | 7.76  |
| 3208187                | Drill Core                       | 82    | 1.04  | 0.123 | 9.0   | 15.5  | 0.42  | 1068  | 0.004 | 1.61  | <0.01 | 0.16  | <0.5  | 0.13  | 5.7   | 1.7   | 2.09  | <5    | 7     | 69.60 | 8.13  |
| REP 3208187            | QC                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 69.70 | 8.13  |
| Core Reject Duplicates |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3208166                | Drill Core                       | 68    | 0.66  | 0.124 | 7.6   | 15.4  | 0.17  | 2794  | 0.004 | 0.72  | <0.01 | 0.14  | <0.5  | 0.18  | 3.2   | 1.3   | 1.89  | <5    | 8     | 77.10 | 6.22  |
| DUP 3208166            | QC                               | 71    | 0.80  | 0.118 | 6.2   | 14.7  | 0.21  | 2163  | 0.004 | 0.71  | <0.01 | 0.14  | <0.5  | 0.17  | 3.4   | 1.2   | 1.93  | <5    | 7     | 76.60 | 6.09  |
| Reference Materials    |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1               | Standard                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



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## QUALITY CONTROL REPORT

WHI18000939.1

|                        | Method     | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | TC006 | TC000     | TC000 |      |
|------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|------|
|                        | Analyte    | Fe2O3 | CaO   | MgO   | K2O   | MnO   | TiO2  | P2O5  | Cr2O3 | Ba    | Cu    | Pb    | Zn    | LOI   | SUM_T | CO2   | TOT/C     | TOT/S |      |
|                        | Unit       | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %         | %     |      |
|                        | MDL        | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | -5.11 | 0.01  | 0.02      | 0.02  | 0.02 |
| 3208181                | Drill Core | 4.43  | 2.15  | 1.40  | 1.79  | 0.07  | 0.41  | 0.24  | 0.02  | 1.51  | <0.01 | <0.01 | 0.11  | 8.56  | 98.94 | 2.23  | 3.55      | 2.69  |      |
| Pulp Duplicates        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |       |      |
| 3208147                | Drill Core | 4.88  | 0.73  | 0.79  | 2.87  | 0.10  | 0.58  | 0.15  | 0.01  | 0.46  | <0.01 | <0.01 | <0.01 | 4.80  | 99.53 | 2.12  | 1.69      | 0.76  |      |
| REP 3208147            | QC         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |       |      |
| 3208153                | Drill Core | 3.51  | 0.63  | 0.50  | 1.71  | 0.04  | 0.42  | 0.30  | 0.02  | 2.09  | <0.01 | <0.01 | 0.19  | 6.47  | 99.32 | 0.43  | 2.95      | 2.42  |      |
| REP 3208153            | QC         | 3.54  | 0.62  | 0.50  | 1.71  | 0.04  | 0.42  | 0.30  | 0.02  | 2.09  | <0.01 | <0.01 | 0.19  | 6.47  | 99.34 |       |           |       |      |
| 3208155                | Drill Core | 3.98  | 1.13  | 0.78  | 1.46  | 0.07  | 0.37  | 0.24  | 0.01  | 2.07  | <0.01 | <0.01 | 0.22  | 6.63  | 99.45 | 1.18  | 3.00      | 2.51  |      |
| REP 3208155            | QC         | 3.95  | 1.13  | 0.76  | 1.46  | 0.07  | 0.36  | 0.24  | 0.01  | 2.07  | <0.01 | <0.01 | 0.21  | 6.63  | 99.27 |       |           |       |      |
| 3208165                | Drill Core | 4.89  | 1.56  | 0.95  | 1.47  | 0.10  | 0.41  | 0.27  | 0.02  | 3.08  | <0.01 | 0.01  | 0.10  | 7.09  | 99.46 | 1.69  | 2.97      | 3.21  |      |
| REP 3208165            | QC         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.83      |       |      |
| REP 3208166            | QC         | 3.69  | 0.96  | 0.55  | 1.32  | 0.12  | 0.32  | 0.27  | 0.02  | 1.94  | <0.01 | <0.01 | 0.05  | 6.27  | 99.20 |       |           |       |      |
| 3208168                | Drill Core | 4.26  | 0.44  | 0.28  | 1.23  | 0.06  | 0.38  | 0.31  | 0.01  | 3.65  | <0.01 | 0.01  | 0.10  | 6.78  | 99.93 | 0.19  | 3.48      | 2.98  |      |
| REP 3208168            | QC         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |       |      |
| 3208169                | Rock Pulp  | 12.90 | 6.89  | 3.92  | 0.51  | 0.21  | 0.59  | 0.13  | <0.01 | 0.02  | 0.09  | <0.01 | 0.54  | 4.59  | 97.71 | 3.20  | 1.00      | 1.49  |      |
| REP 3208169            | QC         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |       |      |
| 3208178                | Drill Core | 9.82  | 0.25  | 0.48  | 2.23  | 0.23  | 0.54  | 0.18  | 0.01  | 1.51  | <0.01 | <0.01 | 0.02  | 7.72  | 98.54 | 0.51  | 1.40      | 7.24  |      |
| REP 3208178            | QC         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.37 7.01 |       |      |
| 3208185                | Drill Core | 5.41  | 1.50  | 1.00  | 1.53  | 0.06  | 0.40  | 0.25  | 0.02  | 3.04  | <0.01 | <0.01 | 0.08  | 7.94  | 99.02 | 1.65  | 2.90      | 3.87  |      |
| REP 3208185            | QC         | 5.37  | 1.49  | 1.00  | 1.53  | 0.06  | 0.40  | 0.24  | 0.02  | 3.00  | <0.01 | <0.01 | 0.08  | 7.94  | 98.71 |       |           |       |      |
| 3208187                | Drill Core | 4.46  | 1.47  | 0.95  | 1.37  | 0.07  | 0.42  | 0.27  | 0.02  | 4.18  | <0.01 | <0.01 | 0.07  | 7.54  | 99.08 | 1.45  | 3.06      | 3.04  |      |
| REP 3208187            | QC         | 4.49  | 1.46  | 0.94  | 1.33  | 0.07  | 0.42  | 0.27  | 0.02  | 4.18  | <0.01 | <0.01 | 0.07  | 7.54  | 99.13 |       |           |       |      |
| Core Reject Duplicates |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |       |      |
| 3208166                | Drill Core | 3.71  | 0.96  | 0.55  | 1.32  | 0.12  | 0.32  | 0.27  | 0.02  | 1.95  | <0.01 | <0.01 | 0.05  | 6.27  | 99.14 | 0.99  | 3.61      | 2.07  |      |
| DUP 3208166            | QC         | 3.85  | 1.16  | 0.64  | 1.28  | 0.13  | 0.31  | 0.26  | 0.01  | 1.91  | <0.01 | <0.01 | 0.05  | 6.29  | 98.85 | 1.26  | 3.69      | 2.19  |      |
| Reference Materials    |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |       |      |
| STD COO1               | Standard   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2.39      |       |      |
| STD COO1               | Standard   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2.40      |       |      |
| STD COO1               | Standard   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2.20      |       |      |
| STD COO1               | Standard   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2.36      |       |      |



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|                          |          | WGHT | FA330 | FA330 | FA330 | AQ270 | AQ270   | AQ270   | AQ270 | AQ270 | AQ270  | AQ270  | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 |
|--------------------------|----------|------|-------|-------|-------|-------|---------|---------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                          |          | Wgt  | Au    | Pt    | Pd    | Mo    | Cu      | Pb      | Zn    | Ag    | Ni     | Co     | Mn    | Fe    | As    | U     | Th    | Sr    | Cd    | Sb    | Bi    |
|                          |          | kg   | ppb   | ppb   | ppb   | ppm   | ppm     | ppm     | ppm   | ppm   | ppm    | ppm    | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                          |          | 0.01 | 2     | 3     | 2     | 0.5   | 0.5     | 0.5     | 5     | 0.5   | 0.5    | 0.5    | 5     | 0.01  | 5     | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   |
| STD GBM398-4-AR          | Standard |      |       |       |       | 927.0 | 3953.8  | 11748.9 | 5404  | 50.1  | 4252.7 | 2043.8 | 5162  | 3.97  | 6     | 0.6   | 0.7   | 12    | 8.9   | 6.3   | 11.6  |
| STD GBM398-4-AR          | Standard |      |       |       |       | 911.2 | 4036.0  | 11682.1 | 5513  | 50.0  | 4243.6 | 1991.3 | 5221  | 4.02  | 6     | 0.7   | 0.9   | 15    | 9.5   | 7.4   | 13.5  |
| STD GS311-1              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD GS311-1              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD GS910-4              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD GS910-4              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS133B(D)         | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS133B(D)         | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS133B(D)         | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS605             | Standard |      |       |       |       | 4.8   | 48828.7 | 852.7   | 2188  | >1000 | 1546.1 | 92.9   | 90    | 3.77  | 1690  | 1.0   | 2.5   | 56    | 14.6  | 317.5 | 19.8  |
| STD OREAS72B             | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS72B             | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS72B             | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS927-AR          | Standard |      |       |       |       | 1.1   | 10938.9 | 218.6   | 725   | 4.8   | 29.4   | 30.5   | 1012  | 8.32  | 13    | 1.5   | 11.9  | 12    | 1.0   | 1.2   | 64.3  |
| STD PD05                 | Standard |      | 505   | 438   | 616   |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD PD05                 | Standard |      | 504   | 418   | 598   |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD PG04                 | Standard |      | 984   | 890   | 1236  |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD PG04                 | Standard |      | 974   | 856   | 1176  |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD SY-4(D)              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD SY-4(D)              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD SY-4(D)              | Standard |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD GS311-1 Expected     |          |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD GS910-4 Expected     |          |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD OREAS927-AR Expected |          |      |       |       |       | 1.06  | 10715   | 212     | 726   | 4.9   | 30.9   | 29.4   | 1110  | 8.15  | 13.5  | 1.7   | 12.5  | 13.1  | 1.1   | 1.3   | 66    |
| STD COO1 Expected        |          |      |       |       |       |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD PD05 Expected        |          |      | 519   | 430   | 596   |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD PG04 Expected        |          |      | 1004  | 903   | 1196  |       |         |         |       |       |        |        |       |       |       |       |       |       |       |       |       |
| STD GBM398-4-AR Expected |          |      |       |       |       | 917   | 3919    | 11750   | 5345  | 49.2  | 4135   | 1950   | 5260  | 3.95  | 6     | 0.7   | 0.8   | 13    | 9.2   | 7.2   | 12.9  |
| STD OREAS605 Expected    |          |      |       |       |       | 4.75  | 49800   | 856     | 2170  | 984   | 1538   | 93     | 86    | 3.75  | 1613  | 0.95  |       |       | 12.9  | 228   | 16.7  |



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MacMillan Pass

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|                          |          | AQ270<br>V<br>ppm<br>10 | AQ270<br>Ca<br>%<br>0.01 | AQ270<br>P<br>%<br>0.001 | AQ270<br>La<br>ppm<br>0.5 | AQ270<br>Cr<br>ppm<br>0.5 | AQ270<br>Mg<br>%<br>0.01 | AQ270<br>Ba<br>ppm<br>5 | AQ270<br>Ti<br>%<br>0.001 | AQ270<br>Al<br>%<br>0.01 | AQ270<br>Na<br>%<br>0.01 | AQ270<br>K<br>%<br>0.01 | AQ270<br>W<br>ppm<br>0.5 | AQ270<br>Hg<br>ppm<br>0.05 | AQ270<br>Sc<br>ppm<br>0.5 | AQ270<br>Ti<br>ppm<br>0.5 | AQ270<br>S<br>%<br>0.05 | AQ270<br>Ga<br>ppm<br>5 | AQ270<br>Se<br>ppm<br>2 | LF725<br>SiO2<br>%<br>0.01 | LF725<br>Al2O3<br>%<br>0.01 |
|--------------------------|----------|-------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|----------------------------|---------------------------|---------------------------|-------------------------|-------------------------|-------------------------|----------------------------|-----------------------------|
| STD GBM398-4-AR          | Standard | 19                      | 0.36                     | 0.019                    | 2.7                       | 2056.1                    | 0.11                     | 21                      | 0.111                     | 0.49                     | 0.26                     | 0.10                    | 2.7                      | 2.95                       | 2.0                       | <0.5                      | 0.96                    | <5                      | 3                       |                            |                             |
| STD GBM398-4-AR          | Standard | 20                      | 0.32                     | 0.021                    | 2.8                       | 1897.3                    | 0.14                     | 21                      | 0.116                     | 0.50                     | 0.27                     | 0.11                    | 3.1                      | 3.17                       | 2.5                       | <0.5                      | 0.94                    | <5                      | 5                       |                            |                             |
| STD GS311-1              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD GS311-1              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD GS910-4              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD GS910-4              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD OREAS133B(D)         | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 33.70                      | 6.84                        |
| STD OREAS133B(D)         | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 33.70                      | 6.85                        |
| STD OREAS133B(D)         | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 33.70                      | 6.87                        |
| STD OREAS605             | Standard | <10                     | 0.19                     | 0.012                    | 8.1                       | 27.2                      | 0.03                     | 202                     | 0.010                     | 0.77                     | 0.03                     | 0.15                    | 7.2                      | 1.61                       | 1.7                       | 17.5                      | 7.87                    | 7                       | 86                      |                            |                             |
| STD OREAS72B             | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 51.30                      | 8.97                        |
| STD OREAS72B             | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 51.30                      | 8.97                        |
| STD OREAS72B             | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 51.40                      | 8.97                        |
| STD OREAS927-AR          | Standard | 34                      | 0.31                     | 0.054                    | 25.5                      | 42.3                      | 1.93                     | 45                      | 0.078                     | 3.28                     | <0.01                    | 0.29                    | 4.7                      | 0.11                       | 6.0                       | <0.5                      | 1.76                    | 10                      | 17                      |                            |                             |
| STD PD05                 | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD PD05                 | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD PG04                 | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD PG04                 | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD SY-4(D)              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 49.70                      | 20.70                       |
| STD SY-4(D)              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 49.60                      | 20.70                       |
| STD SY-4(D)              | Standard |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         | 49.70                      | 20.70                       |
| STD GS311-1 Expected     |          |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD GS910-4 Expected     |          |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD OREAS927-AR Expected |          | 34                      | 0.3                      | 0.054                    | 26.9                      | 41.7                      | 1.94                     | 51.4                    | 0.085                     | 3.25                     | 0.011                    | 0.27                    | 4.9                      | 0.12                       | 4.74                      |                           | 1.77                    | 9.09                    | 15.5                    |                            |                             |
| STD COO1 Expected        |          |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD PD05 Expected        |          |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD PG04 Expected        |          |                         |                          |                          |                           |                           |                          |                         |                           |                          |                          |                         |                          |                            |                           |                           |                         |                         |                         |                            |                             |
| STD GBM398-4-AR Expected |          | 24                      | 0.34                     | 0.02                     | 2.8                       | 1950                      | 0.12                     | 21                      | 0.111                     | 0.48                     | 0.25                     | 0.11                    | 3                        | 3.21                       | 1.79                      |                           | 0.94                    |                         | 3                       |                            |                             |
| STD OREAS605 Expected    |          | 8.33                    | 0.182                    | 0.0116                   | 3.95                      | 27.5                      | 0.0289                   | 184.8                   | 0.01                      | 0.73                     | 0.0328                   | 0.134                   | 5.9                      |                            | 1.05                      | 15.3                      | 7.86                    |                         | 75                      |                            |                             |



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## QUALITY CONTROL REPORT

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|                          |          | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | LF725 | TC006 | TC000 | TC000 |
|--------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                          |          | Fe2O3 | CaO   | MgO   | K2O   | MnO   | TiO2  | P2O5  | Cr2O3 | Ba    | Cu    | Pb    | Zn    | LOI   | SUM_T |       | CO2   | TOT/C | TOT/S |
|                          |          | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     | %     |       | %     | %     | %     |
|                          |          | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | -5.11 | 0.01  | 0.02  | 0.02  | 0.02  |
| STD GBM398-4-AR          | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD GBM398-4-AR          | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD GS311-1              | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD GS311-1              | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD GS910-4              | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD GS910-4              | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OREAS133B(D)         | Standard | 11.50 | 5.31  | 3.71  | 3.45  | 0.16  | 0.24  | 0.10  | <0.01 | 0.07  | 0.03  | 5.06  | 11.33 | 13.00 | 97.68 |       |       |       |       |
| STD OREAS133B(D)         | Standard | 11.50 | 5.30  | 3.72  | 3.45  | 0.16  | 0.23  | 0.09  | <0.01 | 0.06  | 0.03  | 5.06  | 11.33 | 13.00 | 97.67 |       |       |       |       |
| STD OREAS133B(D)         | Standard | 11.50 | 5.33  | 3.69  | 3.44  | 0.16  | 0.23  | 0.10  | <0.01 | 0.07  | 0.03  | 5.01  | 11.33 | 13.00 | 97.64 |       |       |       |       |
| STD OREAS605             | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OREAS72B             | Standard | 9.87  | 3.98  | 15.80 | 1.32  | 0.15  | 0.35  | 0.06  | 0.14  | 0.03  | 0.02  | <0.01 | <0.01 | 5.12  | 98.43 |       |       |       |       |
| STD OREAS72B             | Standard | 9.86  | 3.98  | 15.80 | 1.31  | 0.15  | 0.35  | 0.05  | 0.14  | 0.04  | 0.02  | <0.01 | <0.01 | 5.12  | 98.42 |       |       |       |       |
| STD OREAS72B             | Standard | 9.87  | 4.01  | 15.80 | 1.32  | 0.14  | 0.35  | 0.06  | 0.15  | 0.03  | 0.02  | <0.01 | 0.01  | 5.12  | 98.58 |       |       |       |       |
| STD OREAS927-AR          | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05                 | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05                 | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04                 | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04                 | Standard |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD SY-4(D)              | Standard | 6.20  | 8.03  | 0.53  | 1.66  | 0.11  | 0.29  | 0.17  | <0.01 | 0.03  | <0.01 | <0.01 | 0.03  | 4.56  | 99.00 |       |       |       |       |
| STD SY-4(D)              | Standard | 6.17  | 7.99  | 0.53  | 1.65  | 0.11  | 0.29  | 0.16  | <0.01 | 0.03  | <0.01 | <0.01 | 0.03  | 4.56  | 98.77 |       |       |       |       |
| STD SY-4(D)              | Standard | 6.19  | 8.03  | 0.51  | 1.66  | 0.10  | 0.29  | 0.17  | <0.01 | 0.03  | <0.01 | <0.01 | 0.03  | 4.56  | 98.96 |       |       |       |       |
| STD GS311-1 Expected     |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.02  | 2.35  |
| STD GS910-4 Expected     |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2.65  | 8.27  |
| STD OREAS927-AR Expected |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD COO1 Expected        |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2.37  |       |
| STD PD05 Expected        |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04 Expected        |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD GBM398-4-AR Expected |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OREAS605 Expected    |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



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**Project:**

MacMillan Pass

**Report Date:**

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## QUALITY CONTROL REPORT

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|                           |            | WGHT | FA330 | FA330 | FA330 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 |
|---------------------------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                           |            | Wgt  | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Th    | Sr    | Cd    | Sb    | Bi    |
|                           |            | kg   | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                           |            | 0.01 | 2     | 3     | 2     | 0.5   | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   | 5     | 0.01  | 5     | 0.5   | 0.5   | 5     | 0.5   | 0.5   | 0.5   |
| STD SY-4(D) Expected      |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OREAS72B Expected     |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OREAS133B(D) Expected |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      |       |       |       | <0.5  | <0.5  | <0.5  | <5    | <0.5  | <0.5  | <0.5  | <5    | <0.01 | <5    | <0.5  | <0.5  | <5    | <0.5  | <0.5  | <0.5  |
| BLK                       | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      | <2    | 4     | <2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      | 4     | 6     | 8     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      | 5     | <3    | <2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      | 4     | <3    | <2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |      |       |       |       | <0.5  | <0.5  | <0.5  | <5    | <0.5  | <0.5  | <0.5  | <5    | <0.01 | <5    | <0.5  | <0.5  | <5    | <0.5  | <0.5  | <0.5  |
| SI BLK                    | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| SI BLK                    | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| SI BLK                    | Blank      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Prep Wash                 |            |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ROCK-WHI                  | Prep Blank |      | <2    | <3    | <2    | 1.1   | 6.0   | 1.6   | 39    | <0.5  | 0.6   | 3.7   | 548   | 1.84  | <5    | <0.5  | 2.2   | 24    | <0.5  | <0.5  | <0.5  |
| ROCK-WHI                  | Prep Blank |      | 3     | <3    | <2    | 1.1   | 4.9   | 1.7   | 36    | <0.5  | 1.5   | 3.8   | 510   | 1.83  | <5    | <0.5  | 2.3   | 24    | <0.5  | <0.5  | <0.5  |



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## QUALITY CONTROL REPORT

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|                           |            | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270  | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | AQ270 | LF725 | LF725 |       |       |
|---------------------------|------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                           |            | V     | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | SiO2  | Al2O3 |       |
|                           |            | ppm   | %     | %     | ppm   | ppm   | %     | ppm   | %      | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | %     | %     |       |
|                           |            | 10    | 0.01  | 0.001 | 0.5   | 0.5   | 0.01  | 5     | 0.001  | 0.01  | 0.01  | 0.01  | 0.5   | 0.05  | 0.5   | 0.5   | 0.05  | 5     | 2     | 0.01  | 0.01  |       |
| STD SY-4(D) Expected      |            |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 49.9  | 20.69 |
| STD OREAS72B Expected     |            |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 51.16 | 8.97  |
| STD OREAS133B(D) Expected |            |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 33.83 | 6.91  |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      | <10   | <0.01 | 0.002 | <0.5  | <0.5  | <0.01 | <5    | <0.001 | <0.01 | <0.01 | <0.01 | <0.5  | <0.05 | <0.5  | <0.5  | <0.05 | <5    | <2    |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                       | Blank      | <10   | <0.01 | 0.002 | <0.5  | <0.5  | <0.01 | <5    | <0.001 | <0.01 | <0.01 | <0.01 | <0.5  | <0.05 | <0.5  | <0.5  | <0.05 | <5    | <2    |       |       |       |
| SI BLK                    | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 99.40 | 0.34  |
| SI BLK                    | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 99.30 | 0.34  |
| SI BLK                    | Blank      |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 99.20 | 0.34  |
| Prep Wash                 |            |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ROCK-WHI                  | Prep Blank | 22    | 0.76  | 0.044 | 6.3   | 1.7   | 0.41  | 77    | 0.088  | 0.97  | 0.12  | 0.11  | <0.5  | <0.05 | 4.6   | <0.5  | <0.05 | <5    | <2    | 70.90 | 13.90 |       |
| ROCK-WHI                  | Prep Blank | 23    | 0.67  | 0.042 | 6.4   | 2.0   | 0.39  | 69    | 0.088  | 0.95  | 0.12  | 0.15  | <0.5  | <0.05 | 4.9   | <0.5  | <0.05 | <5    | <2    | 71.10 | 13.90 |       |



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## QUALITY CONTROL REPORT

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|                           |            | LF725<br>Fe2O3<br>% | LF725<br>CaO<br>% | LF725<br>MgO<br>% | LF725<br>K2O<br>% | LF725<br>MnO<br>% | LF725<br>TiO2<br>% | LF725<br>P2O5<br>% | LF725<br>Cr2O3<br>% | LF725<br>Ba<br>% | LF725<br>Cu<br>% | LF725<br>Pb<br>% | LF725<br>Zn<br>% | LF725<br>LOI<br>% | LF725<br>SUM_T<br>% | TC006<br>CO2<br>% | TC000<br>TOT/C<br>% | TC000<br>TOT/S<br>% |
|---------------------------|------------|---------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|------------------|------------------|------------------|------------------|-------------------|---------------------|-------------------|---------------------|---------------------|
|                           |            | 0.01                | 0.01              | 0.01              | 0.01              | 0.01              | 0.01               | 0.01               | 0.01                | 0.01             | 0.01             | 0.01             | 0.01             | -5.11             | 0.01                | 0.02              | 0.02                | 0.02                |
| STD SY-4(D) Expected      |            | 6.21                |                   | 0.54              | 1.66              | 0.108             | 0.287              | 0.131              |                     | 0.0345           |                  |                  |                  | 4.56              |                     |                   |                     |                     |
| STD OREAS72B Expected     |            | 9.724               | 3.96              | 15.933            | 1.313             | 0.13              | 0.355              | 0.061              | 0.142               | 0.0335           | 0.0193           |                  |                  | 5.12              |                     |                   |                     |                     |
| STD OREAS133B(D) Expected |            | 11.67               | 5.4               | 3.73              |                   |                   |                    |                    |                     | 0.08             | 0.032            | 5.06             | 11.35            |                   |                     |                   |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   | <0.02               | <0.02               |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   | <0.02               | <0.02               |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     | 0.04              |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     | 0.02              |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   |                     |                     |
| BLK                       | Blank      |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   |                     |                     |
| SI BLK                    | Blank      | 0.03                | 0.01              | 0.02              | <0.01             | 0.02              | 0.02               | <0.01              | <0.01               | <0.01            | <0.01            | <0.01            | <0.01            | 0.00              | 99.86               |                   |                     |                     |
| SI BLK                    | Blank      | <0.01               | 0.01              | 0.03              | <0.01             | 0.02              | 0.02               | <0.01              | <0.01               | 0.01             | <0.01            | <0.01            | <0.01            | 0.00              | 99.77               |                   |                     |                     |
| SI BLK                    | Blank      | 0.02                | <0.01             | 0.01              | <0.01             | 0.02              | 0.02               | <0.01              | <0.01               | <0.01            | <0.01            | <0.01            | <0.01            | 0.00              | 99.63               |                   |                     |                     |
| Prep Wash                 |            |                     |                   |                   |                   |                   |                    |                    |                     |                  |                  |                  |                  |                   |                     |                   |                     |                     |
| ROCK-WHI                  | Prep Blank | 3.07                | 2.25              | 0.84              | 1.91              | 0.10              | 0.35               | 0.09               | <0.01               | 0.08             | <0.01            | <0.01            | <0.01            | 0.96              | 99.07               | 0.26              | 0.11                | 0.03                |
| ROCK-WHI                  | Prep Blank | 3.10                | 2.40              | 0.86              | 1.99              | 0.11              | 0.34               | 0.09               | <0.01               | 0.09             | <0.01            | <0.01            | <0.01            | 0.85              | 99.35               | 0.24              | 0.10                | 0.04                |