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Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** Kaminak Gold Corporation

1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

Submitted By: Tim Smith

Receiving Lab: Canada-Whitehorse

Received: August 06, 2012

Report Date: August 14, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000554.1

### CLIENT JOB INFORMATION

Project: SUG  
Shipment ID: 2012-SUG01  
P.O. Number: KGC-12-1660  
Number of Samples: 179

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                           | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--|--------------|---------------|-----|
| Dry at 60C  | 179               | Dry at 60C                                 |              |               | WHI |
| SS80        | 174               | Dry at 60C sieve 100g to -80 mesh          |              |               | WHI |
| 1DX2        | 179               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     | VAN |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme 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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Project: **SUG**  
Report Date: **August 14, 2012**

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Part: **1 of 2**

## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La    |
|         |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm   |
|         |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 | 1     |
| 1295664 | Soil                             | 2.7   | 10.4  | 14.8  | 82    | <0.1  | 11.2  | 10.9  | 785   | 3.83  | 130.4 | 17.0  | 18.1  | 27    | <0.1  | 0.9   | 0.4   | 68    | 0.34  | 0.051 | 29    |
| 1295656 | Soil                             | 1.1   | 17.5  | 10.3  | 69    | 0.1   | 18.2  | 10.7  | 506   | 3.33  | 26.9  | 5.8   | 11.2  | 28    | 0.1   | 0.6   | 0.2   | 70    | 0.37  | 0.063 | 37    |
| 1295654 | Soil                             | 1.3   | 12.4  | 11.8  | 66    | <0.1  | 13.4  | 7.9   | 401   | 3.09  | 78.7  | 3.3   | 8.9   | 23    | 0.1   | 1.1   | 0.2   | 77    | 0.30  | 0.050 | 21    |
| 1295669 | Soil                             | 3.6   | 13.2  | 11.3  | 69    | 0.3   | 10.1  | 10.3  | 1127  | 3.29  | 74.8  | 8.9   | 14.2  | 87    | 0.2   | 1.8   | 0.5   | 67    | 1.09  | 0.062 | 60    |
| 1295673 | Soil                             | 2.0   | 9.8   | 12.6  | 82    | <0.1  | 12.7  | 11.9  | 610   | 3.99  | 70.8  | 7.8   | 14.3  | 16    | 0.1   | 0.9   | 0.2   | 76    | 0.23  | 0.050 | 16    |
| 1295674 | Soil                             | 2.1   | 12.8  | 11.2  | 63    | 0.2   | 11.5  | 8.9   | 556   | 3.25  | 57.7  | 9.1   | 14.6  | 37    | 0.1   | 0.8   | 0.4   | 73    | 0.41  | 0.046 | 68    |
| 1295665 | Soil                             | 1.8   | 7.8   | 14.2  | 106   | <0.1  | 8.6   | 11.2  | 1076  | 4.79  | 164.5 | 8.5   | 21.9  | 21    | 0.1   | 1.0   | 0.2   | 75    | 0.36  | 0.078 | 29    |
| 1295652 | Soil                             | 1.3   | 18.6  | 10.4  | 86    | 0.1   | 11.0  | 13.8  | 599   | 4.27  | 12.2  | 2.5   | 8.2   | 30    | <0.1  | 1.4   | 0.1   | 102   | 0.50  | 0.085 | 17    |
| 1295678 | Soil                             | 1.6   | 12.1  | 13.8  | 78    | <0.1  | 15.4  | 11.2  | 871   | 4.04  | 56.3  | 9.0   | 19.6  | 20    | 0.1   | 0.7   | 0.2   | 71    | 0.27  | 0.054 | 50    |
| 1295677 | Soil                             | 1.6   | 16.2  | 9.3   | 56    | <0.1  | 19.4  | 10.8  | 566   | 3.53  | 14.7  | 2.0   | 8.3   | 30    | <0.1  | 1.0   | 0.2   | 81    | 0.34  | 0.022 | 14    |
| 1295649 | Soil                             | 2.8   | 16.0  | 8.2   | 41    | 0.1   | 11.3  | 6.3   | 852   | 2.30  | 8.4   | <0.5  | 1.5   | 51    | 0.1   | 0.4   | 0.2   | 56    | 0.20  | 0.052 | 7     |
| 1295663 | Soil                             | 1.4   | 11.2  | 8.5   | 51    | 0.1   | 11.7  | 7.3   | 340   | 2.40  | 37.4  | 7.9   | 4.5   | 21    | <0.1  | 0.6   | 0.1   | 48    | 0.28  | 0.064 | 19    |
| 1295675 | Soil                             | 2.4   | 7.6   | 15.4  | 62    | <0.1  | 11.4  | 9.6   | 465   | 3.36  | 63.7  | 3.0   | 5.3   | 15    | 0.2   | 1.1   | 0.2   | 71    | 0.14  | 0.044 | 10    |
| 1295676 | Soil                             | 3.0   | 10.2  | 12.1  | 63    | <0.1  | 11.7  | 10.4  | 744   | 3.99  | 73.0  | 3.9   | 5.0   | 21    | 0.2   | 1.0   | 0.3   | 91    | 0.21  | 0.051 | 11    |
| 1295655 | Soil                             | 1.3   | 12.7  | 14.0  | 85    | <0.1  | 15.3  | 13.0  | 974   | 3.67  | 39.7  | 7.0   | 14.6  | 25    | <0.1  | 0.9   | 0.1   | 78    | 0.35  | 0.062 | 29    |
| 1295667 | Soil                             | 3.7   | 9.8   | 11.8  | 98    | 0.1   | 12.1  | 11.6  | 781   | 4.00  | 142.6 | 19.5  | 18.9  | 27    | 0.1   | 1.2   | 0.3   | 75    | 0.42  | 0.073 | 25    |
| 1295877 | Soil                             | 0.8   | 12.1  | 11.8  | 74    | <0.1  | 12.8  | 11.0  | 622   | 3.20  | 27.0  | 7.4   | 11.4  | 28    | 0.1   | 0.8   | 0.3   | 70    | 0.42  | 0.069 | 19    |
| 1295884 | Soil                             | 2.6   | 13.3  | 10.2  | 59    | <0.1  | 11.4  | 9.2   | 435   | 3.36  | 81.5  | 8.8   | 9.6   | 34    | <0.1  | 1.1   | 0.3   | 83    | 0.39  | 0.040 | 36    |
| 1295880 | Soil                             | 3.2   | 13.6  | 12.3  | 76    | 0.3   | 12.9  | 8.9   | 598   | 3.63  | 134.5 | 18.5  | 18.8  | 46    | 0.2   | 0.7   | 0.3   | 69    | 0.53  | 0.055 | 54    |
| 1295672 | Soil                             | 2.3   | 9.1   | 11.2  | 88    | <0.1  | 10.1  | 11.8  | 744   | 4.34  | 237.1 | 9.6   | 15.5  | 30    | <0.1  | 2.7   | 0.2   | 89    | 0.40  | 0.070 | 30    |
| 1295875 | Soil                             | 0.5   | 14.3  | 9.4   | 74    | <0.1  | 16.7  | 10.7  | 352   | 2.87  | 11.4  | 6.6   | 9.8   | 26    | 0.1   | 0.5   | 0.2   | 77    | 0.40  | 0.071 | 18    |
| 1295885 | Soil                             | 1.6   | 9.5   | 12.7  | 86    | <0.1  | 11.8  | 11.5  | 729   | 4.01  | 149.4 | 13.7  | 21.7  | 23    | <0.1  | 5.7   | 0.3   | 71    | 0.30  | 0.061 | 29    |
| 1295881 | Soil                             | 3.1   | 12.1  | 13.7  | 73    | 0.3   | 10.7  | 10.0  | 671   | 3.49  | 137.6 | 38.4  | 19.0  | 38    | 0.1   | 1.9   | 0.9   | 65    | 0.51  | 0.052 | 49    |
| 1295671 | Soil                             | 2.1   | 14.1  | 12.8  | 72    | 0.2   | 11.6  | 11.4  | 791   | 3.61  | 120.9 | 9.6   | 15.5  | 54    | 0.1   | 3.9   | 0.5   | 76    | 0.67  | 0.049 | 32    |
| 1295876 | Soil                             | 0.8   | 13.9  | 8.8   | 65    | <0.1  | 14.6  | 11.0  | 458   | 2.98  | 15.6  | 4.9   | 7.5   | 27    | <0.1  | 0.5   | 0.2   | 79    | 0.37  | 0.079 | 17    |
| 1295878 | Soil                             | 1.2   | 10.4  | 12.5  | 71    | 0.2   | 14.6  | 10.0  | 524   | 2.86  | 48.4  | 12.0  | 9.7   | 25    | 0.1   | 0.9   | 0.7   | 58    | 0.33  | 0.059 | 23    |
| 1295882 | Soil                             | 4.4   | 12.4  | 12.9  | 75    | 0.1   | 15.0  | 11.2  | 649   | 3.21  | 99.2  | 11.2  | 12.6  | 59    | 0.2   | 0.8   | 0.2   | 71    | 0.80  | 0.047 | 30    |
| 1295651 | Rock Pulp                        | 2.4   | 23.1  | 2.2   | 41    | 0.3   | 23.6  | 10.1  | 396   | 2.29  | 4.1   | 9.8   | 0.8   | 37    | 0.2   | 0.3   | <0.1  | 62    | 0.80  | 0.056 | 4     |
| 1295874 | Soil                             | 0.9   | 12.9  | 10.4  | 67    | 0.1   | 14.8  | 16.5  | 879   | 3.83  | 12.3  | 2.3   | 9.7   | 20    | 0.1   | 0.4   | 0.2   | 76    | 0.29  | 0.064 | 21    |
| 1295879 | Soil                             | 3.6   | 10.3  | 16.3  | 88    | 0.1   | 12.8  | 11.7  | 887   | 4.18  | 342.4 | 39.5  | 19.4  | 29    | 0.2   | 0.8   | 0.3   | 73    | 0.42  | 0.068 | 31    |



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Part: **2 of 2**

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WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|         |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1295664 | Soil                             | 20    | 0.62  | 480   | 0.143 | 1     | 1.77  | 0.013 | 0.32  | 0.3   | 0.05  | 7.3   | 0.6   | <0.05 | 8     | <0.5  | <0.2  |
| 1295656 | Soil                             | 29    | 0.63  | 351   | 0.110 | 1     | 2.25  | 0.014 | 0.12  | 0.2   | 0.04  | 6.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295654 | Soil                             | 22    | 0.56  | 285   | 0.119 | 2     | 1.68  | 0.014 | 0.15  | 0.3   | 0.02  | 5.2   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1295669 | Soil                             | 18    | 0.57  | 436   | 0.106 | 2     | 1.54  | 0.016 | 0.18  | 0.2   | 0.06  | 7.8   | 0.4   | <0.05 | 7     | 0.6   | <0.2  |
| 1295673 | Soil                             | 23    | 0.64  | 316   | 0.150 | <1    | 1.95  | 0.012 | 0.21  | 0.2   | 0.02  | 6.8   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1295674 | Soil                             | 22    | 0.44  | 335   | 0.070 | <1    | 1.77  | 0.013 | 0.14  | 0.2   | 0.06  | 8.5   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| 1295665 | Soil                             | 15    | 0.79  | 867   | 0.221 | <1    | 2.05  | 0.014 | 0.74  | 0.2   | <0.01 | 11.0  | 1.1   | <0.05 | 10    | <0.5  | <0.2  |
| 1295652 | Soil                             | 22    | 0.60  | 211   | 0.039 | 1     | 1.63  | 0.011 | 0.06  | 0.4   | 0.03  | 9.6   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| 1295678 | Soil                             | 24    | 0.55  | 424   | 0.091 | <1    | 1.92  | 0.012 | 0.15  | 0.2   | 0.02  | 7.6   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1295677 | Soil                             | 32    | 0.72  | 299   | 0.076 | <1    | 2.34  | 0.016 | 0.10  | 0.1   | 0.03  | 6.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295649 | Soil                             | 18    | 0.23  | 204   | 0.080 | <1    | 1.39  | 0.018 | 0.06  | 0.1   | 0.09  | 2.3   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| 1295663 | Soil                             | 22    | 0.35  | 186   | 0.077 | <1    | 1.29  | 0.013 | 0.06  | 0.2   | 0.07  | 4.2   | 0.2   | <0.05 | 5     | 0.9   | <0.2  |
| 1295675 | Soil                             | 18    | 0.41  | 160   | 0.062 | 1     | 1.48  | 0.012 | 0.11  | 0.1   | 0.02  | 5.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295676 | Soil                             | 23    | 0.46  | 194   | 0.057 | 1     | 1.90  | 0.013 | 0.09  | 0.2   | 0.03  | 5.5   | 0.3   | <0.05 | 9     | <0.5  | <0.2  |
| 1295655 | Soil                             | 25    | 0.67  | 349   | 0.150 | <1    | 1.98  | 0.016 | 0.21  | 0.2   | 0.02  | 6.1   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| 1295667 | Soil                             | 22    | 0.75  | 488   | 0.161 | <1    | 2.05  | 0.015 | 0.30  | 0.3   | 0.03  | 7.3   | 0.6   | <0.05 | 9     | <0.5  | <0.2  |
| 1295877 | Soil                             | 24    | 0.66  | 196   | 0.115 | <1    | 1.80  | 0.018 | 0.10  | 0.2   | 0.02  | 4.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295884 | Soil                             | 21    | 0.58  | 320   | 0.099 | <1    | 1.84  | 0.017 | 0.11  | 0.2   | 0.03  | 6.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295880 | Soil                             | 21    | 0.63  | 505   | 0.124 | <1    | 1.99  | 0.013 | 0.22  | 0.2   | 0.04  | 7.5   | 0.5   | <0.05 | 9     | <0.5  | <0.2  |
| 1295672 | Soil                             | 20    | 0.77  | 385   | 0.144 | <1    | 2.00  | 0.015 | 0.29  | 0.2   | 0.02  | 8.0   | 0.5   | <0.05 | 9     | <0.5  | <0.2  |
| 1295875 | Soil                             | 28    | 0.69  | 237   | 0.134 | <1    | 2.05  | 0.022 | 0.12  | 0.3   | 0.02  | 5.1   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295885 | Soil                             | 21    | 0.65  | 332   | 0.130 | <1    | 1.99  | 0.013 | 0.25  | 0.2   | 0.02  | 6.7   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1295881 | Soil                             | 20    | 0.59  | 550   | 0.105 | <1    | 1.97  | 0.013 | 0.22  | 0.2   | 0.04  | 7.6   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1295671 | Soil                             | 21    | 0.67  | 355   | 0.087 | <1    | 2.00  | 0.020 | 0.19  | 0.2   | 0.03  | 7.3   | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| 1295876 | Soil                             | 26    | 0.59  | 246   | 0.122 | <1    | 1.90  | 0.020 | 0.11  | 0.3   | 0.02  | 5.2   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295878 | Soil                             | 25    | 0.60  | 234   | 0.086 | <1    | 1.88  | 0.014 | 0.10  | 0.2   | 0.05  | 5.3   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| 1295882 | Soil                             | 28    | 0.64  | 382   | 0.119 | <1    | 1.87  | 0.016 | 0.15  | 0.1   | 0.04  | 6.3   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1295651 | Rock Pulp                        | 30    | 0.76  | 89    | 0.111 | 3     | 1.50  | 0.081 | 0.12  | 14.0  | 0.01  | 4.9   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1295874 | Soil                             | 28    | 0.57  | 212   | 0.108 | <1    | 2.02  | 0.013 | 0.08  | 0.2   | 0.05  | 4.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295879 | Soil                             | 22    | 0.78  | 580   | 0.133 | <1    | 2.20  | 0.014 | 0.27  | 0.2   | 0.02  | 7.4   | 0.6   | <0.05 | 9     | <0.5  | <0.2  |



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WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |       |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La    |
|         |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm   |
|         |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |
| 1295883 | Soil                             | 2.8   | 11.5  | 11.0  | 91    | 0.1   | 9.8   | 10.2  | 709   | 4.08  | 63.6  | 7.1   | 25.4  | 31    | 0.1   | 2.3   | 0.4   | 72    | 0.50  | 0.078 | 31    |
| 1295870 | Soil                             | 2.0   | 12.9  | 13.8  | 92    | 0.2   | 13.8  | 12.7  | 677   | 4.12  | 117.4 | 28.8  | 22.9  | 44    | 0.1   | 1.4   | 1.5   | 82    | 0.55  | 0.062 | 43    |
| 1295866 | Soil                             | 1.1   | 16.5  | 11.3  | 64    | 0.4   | 17.1  | 11.3  | 535   | 3.18  | 28.0  | 4.4   | 11.1  | 32    | 0.1   | 0.6   | 0.2   | 73    | 0.44  | 0.057 | 45    |
| 1295869 | Soil                             | 0.9   | 21.8  | 13.4  | 76    | 0.2   | 19.7  | 12.8  | 643   | 3.49  | 11.3  | 3.7   | 17.8  | 37    | 0.2   | 0.6   | 0.2   | 75    | 0.56  | 0.074 | 80    |
| 1295861 | Soil                             | 0.9   | 14.8  | 7.7   | 70    | <0.1  | 12.0  | 12.6  | 587   | 3.38  | 129.8 | 6.8   | 10.8  | 19    | 0.2   | 0.7   | 0.1   | 98    | 0.30  | 0.065 | 18    |
| 1295872 | Soil                             | 1.1   | 14.2  | 11.1  | 69    | <0.1  | 14.7  | 10.6  | 634   | 3.39  | 10.4  | 3.7   | 11.1  | 21    | 0.1   | 0.5   | 0.2   | 80    | 0.30  | 0.060 | 16    |
| 1295865 | Soil                             | 1.0   | 19.5  | 10.8  | 37    | 0.3   | 12.5  | 6.9   | 361   | 2.25  | 10.2  | 4.8   | 3.8   | 23    | 0.2   | 0.3   | 0.3   | 52    | 0.30  | 0.061 | 96    |
| 1295864 | Soil                             | 0.7   | 13.8  | 9.2   | 63    | 0.1   | 13.9  | 10.7  | 340   | 2.79  | 26.3  | 4.2   | 4.2   | 31    | <0.1  | 0.4   | 0.1   | 73    | 0.52  | 0.062 | 19    |
| 1295862 | Soil                             | 1.0   | 13.4  | 6.8   | 44    | <0.1  | 11.4  | 7.7   | 270   | 2.30  | 64.6  | 4.0   | 4.2   | 30    | 0.1   | 0.4   | 0.1   | 63    | 0.50  | 0.036 | 17    |
| 1295871 | Soil                             | 0.9   | 17.0  | 10.5  | 71    | 0.1   | 17.3  | 10.9  | 372   | 3.30  | 7.9   | 3.0   | 10.8  | 21    | 0.1   | 0.4   | 0.2   | 76    | 0.36  | 0.072 | 29    |
| 1295887 | Soil                             | 2.6   | 14.0  | 9.3   | 59    | <0.1  | 15.6  | 12.5  | 424   | 4.25  | 50.1  | 6.0   | 9.8   | 23    | <0.1  | 0.7   | 0.4   | 111   | 0.31  | 0.032 | 13    |
| 1295867 | Soil                             | 1.3   | 14.1  | 11.5  | 79    | <0.1  | 15.3  | 13.5  | 831   | 3.52  | 30.2  | 2.4   | 15.0  | 16    | 0.2   | 0.7   | 0.1   | 75    | 0.32  | 0.072 | 20    |
| 1295863 | Soil                             | 1.2   | 16.8  | 9.3   | 70    | <0.1  | 16.9  | 15.2  | 1051  | 3.18  | 27.5  | 2.1   | 5.0   | 27    | 0.2   | 0.4   | 0.2   | 77    | 0.38  | 0.053 | 14    |
| 1295873 | Soil                             | 1.2   | 13.0  | 10.1  | 66    | 0.1   | 15.4  | 11.6  | 518   | 3.92  | 12.9  | 4.0   | 8.9   | 18    | <0.1  | 0.4   | 0.2   | 85    | 0.29  | 0.065 | 19    |
| 1295888 | Soil                             | 1.9   | 12.8  | 13.3  | 67    | 0.2   | 14.1  | 11.5  | 627   | 3.88  | 238.0 | 16.7  | 16.3  | 18    | 0.1   | 0.8   | 0.3   | 81    | 0.28  | 0.052 | 36    |
| 1295886 | Soil                             | 2.7   | 12.5  | 10.6  | 60    | 0.1   | 9.5   | 11.4  | 643   | 3.72  | 222.2 | 18.8  | 11.6  | 37    | 0.1   | 2.4   | 0.2   | 84    | 0.49  | 0.062 | 48    |
| 1295868 | Soil                             | 1.1   | 13.5  | 12.3  | 72    | <0.1  | 18.1  | 14.6  | 799   | 3.87  | 18.7  | 2.4   | 10.1  | 16    | 0.1   | 0.6   | 0.2   | 88    | 0.28  | 0.050 | 12    |
| 1295860 | Soil                             | 1.2   | 19.2  | 6.6   | 63    | <0.1  | 16.0  | 14.9  | 433   | 3.62  | 142.9 | 8.9   | 8.2   | 22    | 0.1   | 0.6   | 0.1   | 93    | 0.32  | 0.061 | 13    |
| 1296333 | Soil                             | 1.5   | 63.4  | 10.5  | 74    | 0.4   | 31.5  | 19.4  | 480   | 3.36  | 14.1  | 5.8   | 1.7   | 23    | 0.2   | 0.5   | 0.1   | 74    | 0.45  | 0.086 | 17    |
| 1296334 | Soil                             | 1.3   | 50.3  | 7.9   | 70    | 0.2   | 28.9  | 17.4  | 529   | 2.70  | 11.0  | 2.3   | 1.8   | 23    | 0.2   | 0.4   | <0.1  | 70    | 0.50  | 0.063 | 10    |
| 1296337 | Soil                             | 0.9   | 18.9  | 4.3   | 45    | <0.1  | 15.7  | 8.8   | 280   | 1.89  | 5.8   | 2.6   | 1.5   | 14    | <0.1  | 0.3   | <0.1  | 47    | 0.27  | 0.047 | 13    |
| 1295889 | Soil                             | 2.5   | 11.9  | 12.5  | 56    | <0.1  | 10.7  | 8.3   | 475   | 3.21  | 40.7  | 4.5   | 8.3   | 13    | 0.1   | 0.8   | 0.2   | 69    | 0.15  | 0.040 | 14    |
| 1296339 | Soil                             | 0.9   | 15.8  | 6.0   | 57    | <0.1  | 26.7  | 11.0  | 321   | 2.39  | 9.5   | 3.4   | 2.8   | 17    | <0.1  | 0.3   | <0.1  | 68    | 0.33  | 0.058 | 11    |
| 1296338 | Soil                             | 0.8   | 20.1  | 6.1   | 60    | <0.1  | 22.0  | 11.0  | 418   | 2.31  | 11.0  | 4.4   | 3.5   | 16    | 0.1   | 0.4   | <0.1  | 62    | 0.33  | 0.052 | 17    |
| 1296316 | Soil                             | 0.9   | 19.7  | 10.1  | 61    | 0.1   | 17.8  | 13.3  | 495   | 2.88  | 12.3  | 2.2   | 4.8   | 22    | <0.1  | 1.2   | 0.1   | 82    | 0.36  | 0.047 | 13    |
| 1295890 | Soil                             | 1.9   | 9.2   | 14.3  | 57    | <0.1  | 12.0  | 8.9   | 555   | 3.73  | 20.2  | 1.5   | 10.3  | 14    | 0.1   | 0.9   | 0.5   | 64    | 0.15  | 0.040 | 26    |
| 1296312 | Soil                             | 0.7   | 13.1  | 8.0   | 50    | 0.2   | 15.0  | 6.9   | 159   | 2.11  | 17.5  | 2.5   | 3.0   | 22    | 0.2   | 1.0   | 0.1   | 51    | 0.32  | 0.052 | 11    |
| 1296318 | Soil                             | 0.8   | 39.5  | 13.4  | 85    | 0.3   | 32.5  | 16.2  | 554   | 3.10  | 12.5  | 5.4   | 5.8   | 39    | 0.1   | 1.0   | 0.1   | 82    | 0.66  | 0.060 | 20    |
| 1296317 | Soil                             | 0.9   | 33.3  | 9.5   | 82    | 0.2   | 27.8  | 12.7  | 424   | 3.16  | 18.7  | 5.4   | 6.2   | 30    | 0.2   | 1.1   | 0.1   | 84    | 0.55  | 0.061 | 15    |
| 1295891 | Soil                             | 0.8   | 11.6  | 14.2  | 85    | <0.1  | 11.1  | 11.3  | 830   | 4.39  | 7.0   | 1.0   | 33.2  | 17    | <0.1  | 0.7   | 0.1   | 72    | 0.25  | 0.051 | 53    |



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**Report Date:** August 14, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|         |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1295883 | Soil                             | 18    | 0.73  | 484   | 0.127 | <1    | 2.02  | 0.013 | 0.37  | 0.2   | 0.03  | 8.1   | 0.7   | <0.05 | 9     | <0.5  | <0.2  |
| 1295870 | Soil                             | 23    | 0.74  | 530   | 0.118 | <1    | 2.30  | 0.023 | 0.23  | 0.2   | 0.03  | 8.6   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1295866 | Soil                             | 28    | 0.62  | 338   | 0.116 | 1     | 1.96  | 0.016 | 0.11  | 0.3   | 0.05  | 6.3   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295869 | Soil                             | 33    | 0.66  | 381   | 0.115 | <1    | 2.60  | 0.016 | 0.11  | 0.2   | 0.07  | 10.6  | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| 1295861 | Soil                             | 27    | 0.78  | 391   | 0.171 | <1    | 2.13  | 0.018 | 0.14  | 0.4   | 0.05  | 6.0   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| 1295872 | Soil                             | 28    | 0.58  | 221   | 0.136 | <1    | 1.99  | 0.017 | 0.11  | 0.3   | 0.02  | 5.2   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1295865 | Soil                             | 22    | 0.29  | 227   | 0.037 | 1     | 1.58  | 0.010 | 0.04  | 0.3   | 0.06  | 4.1   | 0.1   | <0.05 | 6     | 0.9   | <0.2  |
| 1295864 | Soil                             | 27    | 0.72  | 245   | 0.046 | 2     | 1.89  | 0.012 | 0.04  | 0.2   | 0.07  | 5.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295862 | Soil                             | 21    | 0.48  | 358   | 0.084 | <1    | 1.59  | 0.016 | 0.07  | 0.2   | 0.03  | 3.5   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| 1295871 | Soil                             | 32    | 0.66  | 295   | 0.124 | 1     | 2.12  | 0.013 | 0.09  | 0.3   | 0.07  | 6.6   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1295887 | Soil                             | 31    | 0.77  | 273   | 0.084 | <1    | 2.43  | 0.012 | 0.07  | 0.2   | 0.02  | 6.9   | 0.2   | <0.05 | 9     | 0.5   | <0.2  |
| 1295867 | Soil                             | 28    | 0.67  | 266   | 0.140 | 1     | 1.81  | 0.013 | 0.18  | 0.7   | 0.01  | 5.7   | 0.4   | <0.05 | 7     | 0.6   | <0.2  |
| 1295863 | Soil                             | 31    | 0.63  | 270   | 0.086 | 2     | 2.12  | 0.014 | 0.07  | 0.2   | 0.02  | 4.0   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| 1295873 | Soil                             | 30    | 0.61  | 228   | 0.119 | 2     | 1.89  | 0.012 | 0.09  | 0.2   | 0.05  | 5.0   | 0.4   | <0.05 | 7     | 0.5   | <0.2  |
| 1295888 | Soil                             | 26    | 0.69  | 303   | 0.129 | 2     | 2.12  | 0.013 | 0.12  | 0.2   | 0.02  | 6.0   | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| 1295886 | Soil                             | 20    | 0.56  | 324   | 0.064 | <1    | 1.62  | 0.013 | 0.12  | 0.2   | 0.04  | 8.0   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1295868 | Soil                             | 35    | 0.65  | 158   | 0.125 | 1     | 2.29  | 0.011 | 0.10  | 0.2   | 0.02  | 5.0   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1295860 | Soil                             | 31    | 0.83  | 441   | 0.191 | <1    | 2.42  | 0.015 | 0.20  | 0.5   | 0.02  | 4.8   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1296333 | Soil                             | 42    | 0.76  | 562   | 0.067 | 1     | 2.50  | 0.014 | 0.07  | 0.2   | 0.07  | 6.2   | 0.2   | <0.05 | 6     | 0.8   | <0.2  |
| 1296334 | Soil                             | 50    | 0.81  | 517   | 0.085 | <1    | 1.83  | 0.017 | 0.10  | 0.2   | 0.03  | 4.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| 1296337 | Soil                             | 31    | 0.56  | 147   | 0.067 | 2     | 1.15  | 0.013 | 0.07  | 0.1   | 0.03  | 3.2   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1295889 | Soil                             | 23    | 0.40  | 185   | 0.087 | <1    | 1.49  | 0.010 | 0.11  | 0.1   | 0.01  | 4.4   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1296339 | Soil                             | 52    | 0.95  | 161   | 0.106 | 1     | 1.56  | 0.014 | 0.12  | 0.2   | 0.03  | 3.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1296338 | Soil                             | 41    | 0.79  | 194   | 0.090 | 1     | 1.50  | 0.014 | 0.10  | 0.1   | 0.04  | 4.0   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| 1296316 | Soil                             | 34    | 0.69  | 222   | 0.114 | <1    | 2.02  | 0.014 | 0.05  | 0.2   | 0.04  | 4.9   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295890 | Soil                             | 19    | 0.27  | 240   | 0.017 | <1    | 1.68  | 0.008 | 0.08  | 0.1   | 0.03  | 5.6   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| 1296312 | Soil                             | 28    | 0.55  | 202   | 0.090 | 1     | 1.68  | 0.013 | 0.05  | 0.2   | 0.05  | 3.6   | 0.2   | <0.05 | 6     | 0.5   | <0.2  |
| 1296318 | Soil                             | 50    | 0.86  | 310   | 0.094 | 2     | 2.55  | 0.016 | 0.06  | 0.2   | 0.06  | 8.3   | 0.2   | <0.05 | 8     | 0.6   | <0.2  |
| 1296317 | Soil                             | 44    | 0.81  | 295   | 0.096 | <1    | 2.38  | 0.014 | 0.07  | 0.2   | 0.02  | 6.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295891 | Soil                             | 21    | 0.60  | 436   | 0.133 | <1    | 1.81  | 0.011 | 0.27  | 0.1   | 0.01  | 13.3  | 0.7   | <0.05 | 8     | <0.5  | <0.2  |



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**Project:** SUG  
**Report Date:** August 14, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |       |     |
|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|         |        |         |      |     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La  |
|         |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm |
|         |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 | 1   |
| 1296315 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296313 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296314 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296311 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296320 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296341 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296324 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296342 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296332 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296340 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296326 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296329 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296322 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296328 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296323 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296325 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296321 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296316 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296330 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296327 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285271 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285259 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285272 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296336 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285252 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285270 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285303 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1296335 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285254 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| 1285273 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |



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**Client:** Kaminak Gold Corporation  
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Vancouver BC V6C 2V6 Canada

**Project:** SUG  
**Report Date:** August 14, 2012

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**Part:** 2 of 2

## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|         |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1296315 | Soil                             | 30    | 0.66  | 265   | 0.122 | 1     | 1.89  | 0.016 | 0.07  | 0.3   | 0.04  | 4.5   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296313 | Soil                             | 27    | 0.52  | 207   | 0.089 | 2     | 1.61  | 0.014 | 0.06  | 0.2   | 0.04  | 3.4   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1296314 | Soil                             | 27    | 0.49  | 224   | 0.082 | 1     | 1.64  | 0.012 | 0.05  | 0.2   | 0.06  | 3.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1296311 | Soil                             | 32    | 0.53  | 270   | 0.090 | 1     | 1.95  | 0.013 | 0.07  | 0.3   | 0.05  | 4.0   | 0.2   | <0.05 | 7     | 0.5   | <0.2  |
| 1296320 | Soil                             | 43    | 0.82  | 247   | 0.074 | 1     | 2.40  | 0.016 | 0.05  | 0.1   | 0.06  | 7.5   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| 1296341 | Soil                             | 26    | 0.32  | 95    | 0.047 | 1     | 0.86  | 0.012 | 0.05  | 0.1   | 0.06  | 1.9   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| 1296324 | Soil                             | 97    | 1.33  | 196   | 0.072 | 1     | 2.00  | 0.017 | 0.09  | 0.1   | 0.03  | 9.0   | 0.1   | <0.05 | 7     | 0.6   | <0.2  |
| 1296342 | Soil                             | 45    | 1.00  | 115   | 0.121 | 1     | 1.53  | 0.011 | 0.15  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296332 | Soil                             | 42    | 0.47  | 387   | 0.086 | 2     | 2.30  | 0.010 | 0.06  | 0.2   | 0.05  | 4.7   | 0.6   | <0.05 | 7     | 0.6   | <0.2  |
| 1296340 | Soil                             | 43    | 0.75  | 133   | 0.092 | 1     | 1.46  | 0.014 | 0.09  | 0.2   | 0.04  | 3.5   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| 1296326 | Soil                             | 48    | 0.86  | 672   | 0.067 | 2     | 2.21  | 0.010 | 0.15  | 0.1   | 0.03  | 5.3   | 0.2   | <0.05 | 8     | 1.0   | <0.2  |
| 1296329 | Soil                             | 81    | 1.20  | 256   | 0.120 | 2     | 2.84  | 0.010 | 0.36  | 0.1   | 0.02  | 7.4   | 0.4   | <0.05 | 9     | 1.1   | <0.2  |
| 1296322 | Soil                             | 64    | 1.12  | 169   | 0.131 | 1     | 2.21  | 0.016 | 0.20  | 0.2   | <0.01 | 6.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296328 | Soil                             | 67    | 0.79  | 148   | 0.093 | 1     | 1.87  | 0.013 | 0.09  | 0.1   | 0.02  | 3.6   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| 1296323 | Soil                             | 102   | 1.35  | 147   | 0.103 | <1    | 2.00  | 0.018 | 0.10  | 0.1   | 0.03  | 6.2   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| 1296325 | Soil                             | 40    | 0.61  | 650   | 0.052 | 2     | 1.98  | 0.009 | 0.09  | 0.1   | 0.03  | 4.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296321 | Soil                             | 42    | 0.83  | 172   | 0.095 | 1     | 2.03  | 0.017 | 0.06  | 0.1   | 0.02  | 5.0   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| 1296316 | Soil                             | 48    | 0.79  | 228   | 0.089 | 1     | 2.29  | 0.016 | 0.06  | 0.2   | 0.04  | 5.7   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296330 | Soil                             | 37    | 0.50  | 418   | 0.103 | 1     | 1.83  | 0.009 | 0.09  | 0.1   | 0.04  | 4.0   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296327 | Soil                             | 54    | 1.08  | 202   | 0.106 | <1    | 2.39  | 0.012 | 0.39  | 0.2   | 0.02  | 5.1   | 0.4   | <0.05 | 7     | 0.9   | <0.2  |
| 1285271 | Soil                             | 29    | 0.75  | 197   | 0.106 | <1    | 2.33  | 0.022 | 0.13  | 0.1   | 0.03  | 5.2   | 0.3   | <0.05 | 11    | <0.5  | <0.2  |
| 1285259 | Soil                             | 30    | 0.65  | 254   | 0.091 | <1    | 1.72  | 0.018 | 0.08  | 0.2   | 0.02  | 5.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1285272 | Soil                             | 26    | 0.79  | 240   | 0.121 | <1    | 2.16  | 0.016 | 0.20  | 0.2   | 0.01  | 5.9   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1296336 | Soil                             | 49    | 0.88  | 173   | 0.094 | <1    | 1.78  | 0.015 | 0.08  | 0.1   | 0.02  | 3.5   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| 1285252 | Soil                             | 20    | 0.46  | 214   | 0.026 | <1    | 1.54  | 0.011 | 0.10  | 0.3   | 0.02  | 8.6   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1285270 | Soil                             | 30    | 0.78  | 464   | 0.142 | <1    | 2.62  | 0.014 | 0.34  | 0.1   | 0.02  | 8.8   | 0.7   | <0.05 | 9     | <0.5  | <0.2  |
| 1285303 | Soil                             | 28    | 0.64  | 249   | 0.134 | <1    | 2.00  | 0.014 | 0.12  | 0.2   | 0.02  | 5.0   | 0.3   | <0.05 | 9     | <0.5  | <0.2  |
| 1296335 | Soil                             | 44    | 0.74  | 286   | 0.085 | <1    | 1.70  | 0.015 | 0.07  | 0.1   | 0.04  | 3.7   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| 1285254 | Soil                             | 20    | 0.51  | 202   | 0.078 | 3     | 1.66  | 0.010 | 0.16  | 0.2   | 0.02  | 5.3   | 0.9   | <0.05 | 7     | <0.5  | <0.2  |
| 1285273 | Soil                             | 25    | 0.53  | 159   | 0.116 | 2     | 1.66  | 0.014 | 0.10  | 0.1   | 0.01  | 4.1   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |



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Report Date: **August 14, 2012**

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|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La    |
|         |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm   |
|         |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 | 1     |
| 1285274 | Soil                             | 1.4   | 9.9   | 13.3  | 78    | <0.1  | 15.2  | 13.5  | 960   | 3.64  | 92.3  | 7.7   | 11.7  | 25    | 0.1   | 2.0   | 0.2   | 90    | 0.42  | 0.048 | 23    |
| 1296331 | Soil                             | 1.4   | 35.7  | 16.3  | 88    | 0.1   | 50.6  | 17.2  | 440   | 3.32  | 15.6  | 5.6   | 2.8   | 16    | 0.6   | 1.0   | 0.1   | 81    | 0.25  | 0.054 | 11    |
| 1286563 | Soil                             | 1.1   | 15.3  | 11.5  | 65    | <0.1  | 16.1  | 7.5   | 294   | 3.14  | 17.9  | 3.1   | 7.0   | 19    | 0.2   | 0.5   | 0.3   | 64    | 0.31  | 0.066 | 19    |
| 1285302 | Soil                             | 1.4   | 16.1  | 12.8  | 78    | 0.1   | 19.9  | 14.4  | 998   | 3.63  | 103.3 | 20.9  | 15.5  | 29    | 0.2   | 1.1   | 0.2   | 79    | 0.54  | 0.069 | 57    |
| 1285257 | Soil                             | 1.7   | 11.6  | 10.4  | 63    | <0.1  | 15.5  | 9.6   | 435   | 3.72  | 35.2  | 0.8   | 7.1   | 12    | 0.1   | 0.4   | 0.2   | 90    | 0.18  | 0.035 | 11    |
| 1285268 | Soil                             | 1.6   | 10.5  | 11.6  | 67    | <0.1  | 16.9  | 11.8  | 530   | 3.79  | 36.9  | 6.4   | 15.0  | 12    | <0.1  | 2.5   | 0.2   | 76    | 0.18  | 0.043 | 15    |
| 1285262 | Soil                             | 1.2   | 13.6  | 10.0  | 73    | 0.1   | 19.5  | 13.3  | 546   | 3.81  | 94.2  | 9.9   | 13.1  | 20    | 0.1   | 0.6   | 0.1   | 78    | 0.32  | 0.058 | 24    |
| 1286556 | Soil                             | 1.6   | 7.9   | 9.0   | 68    | <0.1  | 10.4  | 14.0  | 1293  | 3.15  | 23.5  | 4.0   | 5.4   | 16    | <0.1  | 0.3   | 0.2   | 58    | 0.23  | 0.067 | 14    |
| 1285255 | Soil                             | 1.0   | 12.9  | 11.0  | 71    | <0.1  | 14.8  | 10.4  | 622   | 3.37  | 16.4  | 4.0   | 18.2  | 21    | <0.1  | 0.5   | 0.1   | 68    | 0.39  | 0.061 | 33    |
| 1286562 | Soil                             | 1.5   | 13.2  | 9.8   | 61    | <0.1  | 12.9  | 5.3   | 276   | 3.42  | 18.4  | 3.2   | 5.8   | 17    | 0.2   | 0.4   | 0.2   | 60    | 0.27  | 0.072 | 17    |
| 1285261 | Soil                             | 2.0   | 13.4  | 15.3  | 69    | <0.1  | 22.6  | 14.5  | 978   | 3.72  | 21.8  | 1.3   | 7.0   | 16    | 0.3   | 0.6   | 0.3   | 94    | 0.22  | 0.055 | 13    |
| 1285301 | Rock Pulp                        | 1.3   | 429.1 | 19.3  | 150   | 0.2   | 214.2 | 74.5  | 760   | 14.66 | 3.0   | 29.7  | 6.1   | 12    | <0.1  | 0.3   | 0.1   | 233   | 0.28  | 0.037 | 17    |
| 1286558 | Soil                             | 1.5   | 14.0  | 11.5  | 57    | 0.2   | 14.3  | 13.1  | 778   | 3.09  | 8.3   | 9.0   | 17.3  | 21    | <0.1  | 0.5   | 0.1   | 62    | 0.32  | 0.069 | 72    |
| 1286561 | Soil                             | 1.9   | 7.7   | 7.1   | 52    | <0.1  | 10.2  | 5.1   | 414   | 3.98  | 17.2  | 1.5   | 4.7   | 16    | <0.1  | 0.3   | 0.2   | 55    | 0.26  | 0.065 | 15    |
| 1285266 | Soil                             | 1.4   | 9.9   | 15.7  | 79    | <0.1  | 12.3  | 10.4  | 797   | 3.96  | 22.1  | 0.5   | 9.5   | 13    | 0.2   | 1.3   | 0.4   | 74    | 0.18  | 0.066 | 29    |
| 1285251 | Rock Pulp                        | 2.2   | 21.2  | 2.0   | 39    | 0.3   | 23.1  | 10.0  | 363   | 2.23  | 4.2   | <0.5  | 0.7   | 32    | 0.2   | 0.3   | <0.1  | 61    | 0.76  | 0.049 | 4     |
| 1285253 | Soil                             | 1.4   | 12.6  | 12.1  | 72    | <0.1  | 9.7   | 9.8   | 820   | 3.34  | 182.6 | 12.1  | 15.7  | 20    | 0.1   | 7.7   | 0.1   | 66    | 0.30  | 0.054 | 39    |
| 1285267 | Soil                             | 1.0   | 21.2  | 9.2   | 66    | <0.1  | 27.0  | 14.0  | 568   | 3.42  | 35.2  | 6.7   | 12.4  | 15    | <0.1  | 0.6   | 0.2   | 77    | 0.23  | 0.032 | 18    |
| 1285265 | Soil                             | 1.1   | 12.1  | 10.4  | 67    | <0.1  | 17.7  | 12.1  | 737   | 3.40  | 32.1  | 8.2   | 14.2  | 14    | 0.1   | 0.6   | 0.2   | 71    | 0.21  | 0.048 | 27    |
| 1285260 | Soil                             | 1.9   | 14.5  | 15.9  | 47    | <0.1  | 13.0  | 6.4   | 266   | 2.82  | 34.9  | 1.8   | 4.2   | 19    | 0.2   | 1.6   | 0.2   | 81    | 0.24  | 0.032 | 22    |
| 1286560 | Soil                             | 0.9   | 10.5  | 9.5   | 71    | <0.1  | 12.4  | 8.9   | 598   | 3.04  | 23.1  | 4.4   | 8.6   | 16    | <0.1  | 0.4   | 0.2   | 52    | 0.27  | 0.068 | 19    |
| 1285269 | Soil                             | 3.0   | 12.1  | 10.5  | 59    | 0.2   | 13.4  | 9.3   | 498   | 3.30  | 71.7  | 22.6  | 16.1  | 17    | <0.1  | 0.6   | 0.1   | 70    | 0.24  | 0.055 | 38    |
| 1296307 | Soil                             | 0.6   | 54.7  | 4.0   | 48    | <0.1  | 66.6  | 23.0  | 333   | 4.21  | 10.1  | 1.8   | 2.0   | 13    | <0.1  | 0.2   | 0.2   | 106   | 0.23  | 0.012 | 6     |
| 1296303 | Soil                             | 0.8   | 15.7  | 6.1   | 48    | 0.1   | 31.0  | 14.3  | 483   | 2.84  | 25.8  | 3.3   | 4.5   | 21    | 0.2   | 0.6   | <0.1  | 65    | 0.58  | 0.041 | 17    |
| 1295699 | Soil                             | 0.8   | 18.1  | 6.6   | 53    | <0.1  | 39.9  | 16.6  | 484   | 3.32  | 13.9  | 2.1   | 6.1   | 21    | <0.1  | 0.6   | <0.1  | 77    | 0.54  | 0.053 | 20    |
| 1285264 | Soil                             | 1.2   | 12.9  | 9.8   | 98    | <0.1  | 18.5  | 13.5  | 871   | 3.62  | 8.2   | 2.3   | 16.1  | 20    | 0.2   | 0.4   | 0.1   | 72    | 0.35  | 0.086 | 34    |
| 1296310 | Soil                             | 1.0   | 11.4  | 7.5   | 44    | 0.2   | 8.9   | 7.4   | 230   | 2.28  | 14.0  | 2.7   | 2.4   | 15    | 0.1   | 1.1   | 0.2   | 75    | 0.20  | 0.036 | 7     |
| 1296304 | Soil                             | 0.9   | 31.8  | 13.6  | 57    | 0.1   | 44.7  | 17.5  | 351   | 2.87  | 8.6   | 2.2   | 2.2   | 44    | <0.1  | 0.4   | 0.2   | 80    | 0.58  | 0.034 | 7     |
| 1296309 | Soil                             | 0.6   | 28.5  | 10.3  | 75    | <0.1  | 42.3  | 14.3  | 390   | 3.60  | 24.2  | 2.8   | 5.6   | 31    | 0.1   | 1.6   | 0.1   | 97    | 0.36  | 0.043 | 16    |
| 1285258 | Soil                             | 1.2   | 13.7  | 8.6   | 60    | 0.2   | 13.5  | 10.9  | 565   | 3.06  | 45.9  | 6.9   | 7.1   | 27    | <0.1  | 0.4   | 0.1   | 67    | 0.44  | 0.065 | 18    |





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|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|         |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1285274 | Soil                             | 28    | 0.67  | 293   | 0.128 | 2     | 2.00  | 0.015 | 0.14  | 0.2   | 0.03  | 5.4   | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| 1296331 | Soil                             | 64    | 0.83  | 1107  | 0.092 | 2     | 2.30  | 0.012 | 0.08  | 0.2   | 0.04  | 4.7   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| 1286563 | Soil                             | 30    | 0.48  | 281   | 0.093 | 2     | 1.81  | 0.013 | 0.08  | 0.5   | 0.08  | 5.1   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1285302 | Soil                             | 34    | 0.71  | 328   | 0.111 | 2     | 2.27  | 0.016 | 0.10  | 0.2   | 0.06  | 7.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1285257 | Soil                             | 28    | 0.56  | 118   | 0.129 | 1     | 2.03  | 0.011 | 0.10  | 0.2   | 0.02  | 4.7   | 0.3   | <0.05 | 9     | <0.5  | <0.2  |
| 1285268 | Soil                             | 30    | 0.57  | 214   | 0.119 | 2     | 2.05  | 0.011 | 0.20  | 0.2   | 0.02  | 5.7   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1285262 | Soil                             | 31    | 0.69  | 308   | 0.146 | 1     | 2.20  | 0.013 | 0.16  | 0.2   | 0.02  | 5.1   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1286556 | Soil                             | 24    | 0.43  | 204   | 0.094 | <1    | 1.63  | 0.010 | 0.06  | 0.6   | 0.04  | 3.8   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1285255 | Soil                             | 27    | 0.59  | 240   | 0.086 | <1    | 1.90  | 0.012 | 0.15  | 0.2   | 0.02  | 6.7   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1286562 | Soil                             | 27    | 0.46  | 211   | 0.086 | 1     | 1.85  | 0.012 | 0.08  | 0.4   | 0.06  | 4.6   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1285261 | Soil                             | 36    | 0.51  | 153   | 0.043 | <1    | 2.15  | 0.009 | 0.07  | 0.1   | 0.03  | 3.7   | 0.1   | <0.05 | 9     | <0.5  | <0.2  |
| 1285301 | Rock Pulp                        | 711   | 0.12  | 131   | 0.148 | 3     | 3.68  | 0.011 | 0.06  | <0.1  | 0.03  | 35.6  | 0.1   | <0.05 | 20    | <0.5  | <0.2  |
| 1286558 | Soil                             | 24    | 0.51  | 222   | 0.079 | <1    | 1.92  | 0.012 | 0.13  | 0.2   | 0.07  | 6.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1286561 | Soil                             | 22    | 0.37  | 192   | 0.071 | <1    | 1.37  | 0.011 | 0.07  | 0.5   | 0.04  | 3.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1285266 | Soil                             | 23    | 0.46  | 259   | 0.068 | <1    | 1.74  | 0.009 | 0.12  | 0.1   | 0.03  | 6.0   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1285251 | Rock Pulp                        | 31    | 0.66  | 87    | 0.101 | 2     | 1.33  | 0.073 | 0.10  | 12.4  | <0.01 | 4.0   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1285253 | Soil                             | 20    | 0.55  | 367   | 0.105 | <1    | 1.64  | 0.012 | 0.27  | 0.2   | 0.04  | 6.4   | 0.6   | <0.05 | 8     | <0.5  | <0.2  |
| 1285267 | Soil                             | 40    | 0.67  | 235   | 0.117 | <1    | 2.57  | 0.014 | 0.09  | 0.2   | 0.03  | 5.2   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1285265 | Soil                             | 28    | 0.56  | 250   | 0.114 | <1    | 1.78  | 0.012 | 0.14  | 0.2   | 0.04  | 5.6   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1285260 | Soil                             | 28    | 0.39  | 180   | 0.061 | <1    | 1.72  | 0.009 | 0.07  | 0.1   | 0.03  | 3.6   | 0.1   | <0.05 | 9     | <0.5  | <0.2  |
| 1286560 | Soil                             | 25    | 0.48  | 247   | 0.098 | <1    | 1.88  | 0.011 | 0.09  | 1.1   | 0.04  | 4.8   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1285269 | Soil                             | 26    | 0.49  | 297   | 0.076 | <1    | 2.01  | 0.012 | 0.13  | 0.2   | 0.03  | 6.5   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1296307 | Soil                             | 173   | 1.80  | 135   | 0.150 | <1    | 3.02  | 0.019 | 0.14  | 0.2   | 0.01  | 6.9   | 0.1   | <0.05 | 9     | <0.5  | <0.2  |
| 1296303 | Soil                             | 67    | 0.96  | 319   | 0.123 | <1    | 1.63  | 0.014 | 0.22  | 0.2   | 0.04  | 3.9   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| 1295699 | Soil                             | 82    | 1.32  | 311   | 0.151 | <1    | 2.11  | 0.014 | 0.31  | 0.1   | 0.02  | 4.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1285264 | Soil                             | 31    | 0.59  | 311   | 0.112 | <1    | 1.94  | 0.013 | 0.14  | 0.1   | 0.03  | 5.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1296310 | Soil                             | 19    | 0.55  | 163   | 0.140 | 2     | 1.58  | 0.018 | 0.06  | 0.2   | 0.04  | 2.5   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1296304 | Soil                             | 96    | 1.15  | 188   | 0.122 | 1     | 1.80  | 0.022 | 0.10  | 0.1   | 0.02  | 4.2   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| 1296309 | Soil                             | 84    | 1.00  | 268   | 0.142 | 1     | 2.78  | 0.017 | 0.16  | 0.2   | 0.02  | 5.8   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| 1285258 | Soil                             | 25    | 0.58  | 210   | 0.093 | 2     | 1.71  | 0.017 | 0.06  | 0.2   | 0.05  | 5.3   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |



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Project: **SUG**  
Report Date: **August 14, 2012**

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Part: **1 of 2**

## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La    |
|         |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm   |
|         |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 | 1     |
| 1296305 | Soil                             | 2.5   | 44.3  | 6.4   | 55    | 0.2   | 10.6  | 18.6  | 554   | 5.58  | 7.1   | 5.9   | 2.1   | 15    | 0.1   | 3.8   | 0.3   | 53    | 0.25  | 0.049 | 3     |
| 1296302 | Soil                             | 0.8   | 14.7  | 6.1   | 55    | <0.1  | 31.2  | 15.0  | 516   | 3.15  | 14.9  | 3.0   | 5.1   | 17    | 0.1   | 0.5   | <0.1  | 69    | 0.41  | 0.042 | 14    |
| 1295700 | Soil                             | 0.7   | 14.4  | 5.8   | 51    | 0.1   | 31.3  | 15.6  | 501   | 3.17  | 11.2  | 4.0   | 4.8   | 19    | <0.1  | 0.4   | <0.1  | 72    | 0.47  | 0.046 | 14    |
| 1285256 | Soil                             | 1.1   | 10.5  | 11.0  | 79    | <0.1  | 14.7  | 10.6  | 677   | 3.80  | 8.3   | 2.2   | 13.7  | 18    | <0.1  | 0.4   | 0.1   | 75    | 0.34  | 0.068 | 22    |
| 1295691 | Soil                             | 0.7   | 12.6  | 5.5   | 46    | <0.1  | 33.2  | 13.7  | 414   | 3.02  | 11.4  | 3.8   | 5.9   | 18    | <0.1  | 0.3   | <0.1  | 69    | 0.40  | 0.032 | 19    |
| 1295697 | Soil                             | 0.9   | 21.8  | 4.5   | 46    | <0.1  | 42.2  | 17.6  | 478   | 3.21  | 6.4   | 3.5   | 5.5   | 23    | <0.1  | 0.2   | <0.1  | 78    | 0.85  | 0.072 | 18    |
| 1295689 | Soil                             | 1.5   | 11.1  | 9.0   | 36    | <0.1  | 14.5  | 6.7   | 292   | 3.08  | 11.2  | 3.1   | 4.9   | 11    | 0.1   | 0.6   | 0.2   | 82    | 0.16  | 0.037 | 19    |
| 1285263 | Soil                             | 2.1   | 11.1  | 22.9  | 96    | <0.1  | 13.4  | 9.5   | 676   | 4.65  | 13.1  | <0.5  | 15.2  | 11    | <0.1  | 0.9   | 0.1   | 64    | 0.13  | 0.029 | 12    |
| 1295684 | Soil                             | 0.9   | 14.4  | 7.5   | 55    | <0.1  | 22.7  | 12.1  | 406   | 2.53  | 9.8   | 3.2   | 7.1   | 18    | <0.1  | 0.6   | 0.1   | 63    | 0.36  | 0.048 | 17    |
| 1295679 | Soil                             | 0.2   | 4.6   | 5.6   | 27    | <0.1  | 11.4  | 3.2   | 67    | 0.98  | 4.4   | 4.9   | 1.1   | 14    | <0.1  | 0.2   | <0.1  | 21    | 0.28  | 0.031 | 6     |
| 1295696 | Soil                             | 0.8   | 24.9  | 3.9   | 38    | 0.1   | 36.4  | 13.7  | 445   | 2.70  | 4.3   | 2.8   | 5.5   | 28    | <0.1  | 0.2   | <0.1  | 65    | 1.10  | 0.059 | 28    |
| 1295693 | Soil                             | 0.6   | 14.5  | 5.3   | 52    | <0.1  | 51.5  | 20.4  | 501   | 4.00  | 5.5   | 10.0  | 8.1   | 15    | <0.1  | 0.2   | <0.1  | 88    | 0.38  | 0.029 | 24    |
| 1295688 | Soil                             | 1.1   | 15.5  | 8.3   | 47    | <0.1  | 24.6  | 11.2  | 336   | 3.03  | 15.5  | 2.0   | 6.7   | 15    | <0.1  | 0.7   | 0.2   | 71    | 0.25  | 0.041 | 17    |
| 1295681 | Soil                             | 0.4   | 5.7   | 6.5   | 42    | <0.1  | 13.8  | 4.5   | 121   | 1.43  | 4.9   | 3.2   | 2.0   | 16    | <0.1  | 0.2   | <0.1  | 36    | 0.29  | 0.043 | 9     |
| 1295690 | Soil                             | 1.4   | 15.0  | 7.9   | 47    | <0.1  | 26.8  | 10.1  | 332   | 3.42  | 18.8  | 1.4   | 7.9   | 14    | <0.1  | 0.6   | 0.1   | 80    | 0.23  | 0.029 | 19    |
| 1295694 | Soil                             | 0.8   | 23.4  | 4.3   | 62    | <0.1  | 82.8  | 25.5  | 637   | 4.30  | 4.7   | <0.5  | 5.4   | 14    | <0.1  | 0.1   | <0.1  | 93    | 0.31  | 0.035 | 10    |
| 1295686 | Soil                             | 0.9   | 14.5  | 7.8   | 41    | <0.1  | 16.5  | 7.2   | 275   | 2.33  | 7.8   | 3.6   | 3.4   | 14    | 0.1   | 0.4   | 0.1   | 64    | 0.20  | 0.029 | 13    |
| 1295682 | Soil                             | 0.5   | 7.2   | 5.7   | 36    | <0.1  | 11.6  | 4.5   | 170   | 1.44  | 4.4   | 3.4   | 2.0   | 20    | 0.1   | 0.2   | <0.1  | 37    | 0.45  | 0.056 | 9     |
| 1295695 | Soil                             | 0.7   | 24.5  | 4.6   | 48    | <0.1  | 50.2  | 17.0  | 508   | 3.40  | 5.1   | 2.0   | 6.8   | 20    | <0.1  | 0.2   | <0.1  | 84    | 0.67  | 0.046 | 24    |
| 1295698 | Soil                             | 0.6   | 15.7  | 5.1   | 47    | 0.1   | 34.3  | 15.5  | 429   | 2.85  | 61.6  | 12.2  | 5.1   | 25    | <0.1  | 0.6   | <0.1  | 70    | 0.76  | 0.069 | 15    |
| 1295687 | Soil                             | 0.7   | 15.5  | 6.3   | 48    | <0.1  | 24.6  | 11.4  | 379   | 2.71  | 9.8   | 2.2   | 7.5   | 15    | <0.1  | 0.6   | <0.1  | 68    | 0.28  | 0.047 | 16    |
| 1295683 | Soil                             | 0.7   | 11.3  | 6.1   | 49    | <0.1  | 20.8  | 10.9  | 395   | 2.43  | 8.2   | 3.4   | 5.4   | 17    | <0.1  | 0.4   | <0.1  | 64    | 0.38  | 0.043 | 11    |
| 1295680 | Soil                             | 0.4   | 5.3   | 4.8   | 32    | <0.1  | 11.5  | 3.8   | 99    | 1.28  | 4.0   | 2.9   | 1.6   | 17    | <0.1  | 0.2   | <0.1  | 30    | 0.41  | 0.042 | 7     |
| 1295692 | Soil                             | 0.9   | 15.4  | 9.6   | 56    | 0.1   | 32.3  | 13.2  | 373   | 2.94  | 7.7   | 2.5   | 4.7   | 16    | <0.1  | 0.3   | <0.1  | 79    | 0.39  | 0.032 | 14    |
| 1287287 | Soil                             | 1.4   | 7.8   | 13.8  | 85    | <0.1  | 7.3   | 9.7   | 854   | 4.17  | 106.8 | 3.2   | 28.7  | 16    | <0.1  | 2.6   | 0.2   | 63    | 0.28  | 0.073 | 49    |
| 1287290 | Soil                             | 1.9   | 8.0   | 13.2  | 73    | <0.1  | 13.0  | 11.4  | 878   | 3.54  | 49.8  | 1.5   | 9.9   | 17    | <0.1  | 0.8   | 0.1   | 80    | 0.26  | 0.036 | 14    |
| 1287295 | Soil                             | 5.8   | 11.9  | 7.6   | 74    | <0.1  | 16.0  | 11.8  | 647   | 3.51  | 24.4  | 8.9   | 16.5  | 24    | 0.1   | 0.4   | <0.1  | 78    | 0.46  | 0.066 | 28    |
| 1296306 | Soil                             | 0.8   | 58.2  | 4.5   | 42    | 0.1   | 41.9  | 20.0  | 323   | 2.13  | 3.5   | 1.8   | 1.0   | 16    | <0.1  | 0.2   | <0.1  | 60    | 0.28  | 0.051 | 6     |
| 1287294 | Soil                             | 1.3   | 21.1  | 12.0  | 60    | 0.2   | 17.8  | 12.4  | 559   | 3.08  | 16.5  | 5.2   | 13.4  | 47    | 0.2   | 0.9   | 0.3   | 68    | 0.90  | 0.058 | 44    |
| 1287298 | Soil                             | 1.6   | 10.9  | 13.7  | 98    | 0.2   | 16.2  | 12.7  | 1151  | 3.91  | 135.7 | 11.7  | 16.5  | 29    | 0.1   | 1.3   | 0.5   | 72    | 0.51  | 0.085 | 33    |



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**Report Date:** August 14, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|         |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1296305 | Soil                             | 21    | 0.67  | 217   | 0.012 | <1    | 2.13  | 0.006 | 0.04  | 0.3   | 0.03  | 4.0   | <0.1  | <0.05 | 6     | 1.9   | 0.3   |
| 1296302 | Soil                             | 63    | 1.13  | 341   | 0.122 | 1     | 1.84  | 0.013 | 0.26  | 0.1   | 0.03  | 4.1   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1295700 | Soil                             | 69    | 1.24  | 307   | 0.139 | 1     | 2.01  | 0.014 | 0.25  | 0.2   | 0.02  | 4.1   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1285256 | Soil                             | 27    | 0.65  | 294   | 0.144 | 1     | 1.95  | 0.012 | 0.23  | 0.3   | 0.02  | 6.4   | 0.9   | <0.05 | 8     | <0.5  | <0.2  |
| 1295691 | Soil                             | 61    | 1.19  | 189   | 0.139 | 1     | 2.07  | 0.014 | 0.23  | 0.1   | 0.02  | 4.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295697 | Soil                             | 102   | 1.59  | 311   | 0.153 | 1     | 2.13  | 0.016 | 0.53  | 0.2   | 0.04  | 4.9   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| 1295689 | Soil                             | 34    | 0.48  | 79    | 0.097 | <1    | 1.52  | 0.008 | 0.09  | 0.1   | 0.02  | 2.9   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| 1285263 | Soil                             | 19    | 0.50  | 272   | 0.063 | 1     | 2.16  | 0.007 | 0.29  | 0.1   | 0.02  | 7.3   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1295684 | Soil                             | 38    | 0.71  | 166   | 0.084 | 2     | 1.89  | 0.014 | 0.07  | 0.2   | 0.04  | 4.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1295679 | Soil                             | 26    | 0.29  | 73    | 0.049 | <1    | 0.75  | 0.012 | 0.04  | 0.1   | 0.03  | 2.1   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| 1295696 | Soil                             | 89    | 1.27  | 272   | 0.123 | 1     | 1.82  | 0.015 | 0.38  | 0.1   | 0.06  | 4.7   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| 1295693 | Soil                             | 122   | 2.08  | 318   | 0.220 | <1    | 2.89  | 0.010 | 0.69  | 0.1   | <0.01 | 4.1   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1295688 | Soil                             | 49    | 0.81  | 112   | 0.107 | 1     | 2.11  | 0.010 | 0.09  | 0.2   | 0.02  | 3.6   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295681 | Soil                             | 31    | 0.48  | 114   | 0.067 | 1     | 1.31  | 0.017 | 0.05  | 0.1   | 0.05  | 3.1   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| 1295690 | Soil                             | 47    | 0.74  | 148   | 0.106 | 1     | 2.13  | 0.010 | 0.10  | 0.2   | 0.01  | 3.6   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295694 | Soil                             | 241   | 2.79  | 281   | 0.252 | <1    | 3.23  | 0.009 | 1.26  | 0.2   | 0.01  | 2.9   | 0.6   | <0.05 | 9     | <0.5  | <0.2  |
| 1295686 | Soil                             | 36    | 0.58  | 102   | 0.090 | 1     | 1.68  | 0.011 | 0.08  | 0.1   | 0.02  | 3.2   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1295682 | Soil                             | 30    | 0.40  | 118   | 0.059 | 2     | 1.15  | 0.014 | 0.06  | 0.1   | 0.05  | 2.9   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1295695 | Soil                             | 116   | 1.76  | 344   | 0.189 | 1     | 2.47  | 0.014 | 0.65  | 0.1   | 0.03  | 4.4   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1295698 | Soil                             | 80    | 1.26  | 374   | 0.132 | 1     | 1.91  | 0.016 | 0.36  | 0.1   | 0.03  | 4.1   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| 1295687 | Soil                             | 49    | 0.90  | 120   | 0.105 | 1     | 1.96  | 0.011 | 0.12  | 0.2   | 0.02  | 3.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1295683 | Soil                             | 41    | 0.75  | 137   | 0.087 | 2     | 1.63  | 0.015 | 0.07  | 0.1   | 0.02  | 3.9   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| 1295680 | Soil                             | 31    | 0.40  | 86    | 0.060 | 1     | 0.92  | 0.011 | 0.06  | 0.1   | 0.05  | 2.7   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| 1295692 | Soil                             | 66    | 1.25  | 145   | 0.172 | <1    | 2.06  | 0.009 | 0.19  | 0.1   | 0.02  | 2.9   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1287287 | Soil                             | 15    | 0.49  | 339   | 0.076 | 1     | 1.73  | 0.011 | 0.32  | 0.2   | 0.04  | 9.0   | 1.1   | <0.05 | 7     | <0.5  | <0.2  |
| 1287290 | Soil                             | 27    | 0.58  | 229   | 0.125 | <1    | 1.66  | 0.010 | 0.20  | 0.2   | 0.02  | 5.2   | 0.6   | <0.05 | 8     | <0.5  | <0.2  |
| 1287295 | Soil                             | 29    | 0.72  | 407   | 0.177 | 1     | 1.79  | 0.020 | 0.23  | 0.3   | 0.02  | 6.6   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1296306 | Soil                             | 109   | 0.84  | 157   | 0.105 | <1    | 1.56  | 0.014 | 0.20  | <0.1  | 0.03  | 3.2   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| 1287294 | Soil                             | 27    | 0.61  | 272   | 0.051 | 2     | 1.67  | 0.020 | 0.06  | 0.1   | 0.05  | 6.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1287298 | Soil                             | 26    | 0.71  | 423   | 0.109 | 1     | 2.25  | 0.014 | 0.24  | 0.1   | 0.04  | 7.3   | 0.7   | <0.05 | 8     | <0.5  | <0.2  |



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Project: **SUG**  
Report Date: **August 14, 2012**

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Part: **1 of 2**

## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La    |
|         |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm   |
|         |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 | 1     |
| 1287307 | Soil                             | 1.4   | 13.9  | 9.8   | 71    | <0.1  | 17.1  | 11.2  | 494   | 3.40  | 72.0  | 14.6  | 15.6  | 29    | 0.1   | 0.8   | 0.1   | 77    | 0.52  | 0.057 | 37    |
| 1296308 | Soil                             | 1.0   | 19.3  | 10.2  | 61    | <0.1  | 32.6  | 11.9  | 274   | 3.19  | 16.3  | 3.9   | 2.8   | 16    | 0.2   | 0.6   | 0.1   | 90    | 0.19  | 0.039 | 8     |
| 1287296 | Soil                             | 3.0   | 14.7  | 7.8   | 73    | <0.1  | 18.2  | 11.8  | 628   | 3.69  | 17.6  | 4.8   | 18.1  | 26    | <0.1  | 0.4   | 0.2   | 78    | 0.49  | 0.080 | 52    |
| 1287305 | Soil                             | 1.7   | 19.5  | 7.9   | 60    | 0.1   | 20.7  | 14.8  | 396   | 3.49  | 30.2  | 11.6  | 14.6  | 16    | <0.1  | 0.7   | 0.2   | 90    | 0.21  | 0.037 | 23    |
| 1287306 | Soil                             | 1.4   | 18.9  | 8.9   | 61    | <0.1  | 22.7  | 13.3  | 504   | 3.59  | 21.8  | 6.8   | 13.2  | 19    | <0.1  | 0.6   | 0.2   | 96    | 0.31  | 0.047 | 24    |
| 1295685 | Soil                             | 1.0   | 14.6  | 8.5   | 58    | <0.1  | 23.4  | 16.0  | 970   | 3.02  | 12.3  | 3.8   | 6.0   | 12    | 0.2   | 0.6   | 0.1   | 76    | 0.20  | 0.044 | 13    |
| 1287303 | Soil                             | 1.8   | 12.2  | 10.2  | 64    | <0.1  | 19.3  | 10.2  | 345   | 3.52  | 15.9  | 2.7   | 7.1   | 14    | 0.1   | 1.3   | 0.2   | 85    | 0.19  | 0.036 | 13    |
| 1287304 | Soil                             | 2.3   | 11.0  | 13.3  | 77    | <0.1  | 15.8  | 13.5  | 847   | 4.22  | 54.6  | 7.3   | 21.6  | 13    | 0.1   | 2.0   | 0.3   | 77    | 0.18  | 0.059 | 27    |
| 1287297 | Soil                             | 1.7   | 11.4  | 12.4  | 88    | <0.1  | 12.1  | 12.2  | 812   | 4.36  | 87.5  | 20.4  | 27.9  | 18    | <0.1  | 1.1   | <0.1  | 77    | 0.28  | 0.065 | 50    |
| 1296301 | Rock Pulp                        | 1.4   | 436.1 | 18.9  | 152   | 0.2   | 216.8 | 75.7  | 786   | 14.56 | 3.1   | 32.5  | 6.3   | 13    | 0.1   | 0.3   | 0.1   | 235   | 0.28  | 0.039 | 18    |
| 1287302 | Soil                             | 2.9   | 13.6  | 14.0  | 74    | <0.1  | 17.4  | 14.6  | 942   | 4.08  | 51.9  | 3.2   | 9.1   | 18    | 0.1   | 3.0   | 0.3   | 89    | 0.21  | 0.067 | 13    |
| 1287281 | Soil                             | 0.7   | 14.0  | 12.2  | 66    | <0.1  | 15.4  | 13.6  | 1165  | 2.51  | 6.7   | 29.4  | 6.4   | 23    | 0.3   | 0.5   | 0.2   | 56    | 0.31  | 0.062 | 17    |
| 1287308 | Soil                             | 1.1   | 8.2   | 9.6   | 72    | <0.1  | 11.6  | 9.0   | 609   | 3.27  | 25.9  | 1.6   | 12.6  | 19    | <0.1  | 0.7   | 0.2   | 82    | 0.31  | 0.061 | 15    |
| 1287292 | Soil                             | 1.7   | 17.7  | 11.7  | 70    | 0.2   | 17.9  | 10.5  | 612   | 3.21  | 29.3  | 5.5   | 12.6  | 41    | 0.1   | 0.5   | 0.2   | 75    | 0.60  | 0.068 | 25    |
| 1287301 | Rock Pulp                        | 1.4   | 444.6 | 21.0  | 162   | 0.2   | 222.2 | 76.6  | 807   | 15.35 | 2.4   | 29.8  | 7.1   | 15    | 0.1   | 0.4   | 0.2   | 217   | 0.27  | 0.041 | 16    |
| 1287288 | Soil                             | 1.5   | 21.4  | 13.6  | 71    | 0.2   | 16.2  | 9.7   | 609   | 3.44  | 18.2  | 7.1   | 22.1  | 33    | 0.1   | 0.5   | 0.2   | 73    | 0.34  | 0.054 | 55    |
| 1287289 | Soil                             | 1.5   | 10.4  | 11.8  | 96    | <0.1  | 13.6  | 11.5  | 897   | 4.07  | 16.6  | 1.7   | 22.3  | 22    | 0.1   | 0.7   | 0.1   | 78    | 0.33  | 0.079 | 31    |
| 1287293 | Soil                             | 1.2   | 17.2  | 13.9  | 78    | 0.1   | 14.8  | 11.2  | 567   | 3.50  | 60.1  | 5.8   | 19.9  | 44    | 0.1   | 3.1   | 0.1   | 74    | 0.73  | 0.074 | 39    |
| 1287284 | Soil                             | 1.2   | 8.6   | 16.2  | 94    | <0.1  | 11.6  | 10.4  | 1191  | 3.22  | 8.9   | 2.1   | 10.1  | 19    | 0.2   | 0.4   | 0.3   | 48    | 0.30  | 0.075 | 14    |
| 1287310 | Soil                             | 0.9   | 10.0  | 11.1  | 82    | <0.1  | 13.6  | 12.3  | 735   | 3.67  | 119.1 | 11.7  | 16.0  | 19    | 0.1   | 1.1   | 0.2   | 80    | 0.31  | 0.069 | 25    |
| 1287285 | Soil                             | 1.1   | 7.7   | 11.6  | 77    | <0.1  | 10.7  | 8.2   | 747   | 3.02  | 7.9   | 1.1   | 9.2   | 18    | 0.2   | 0.3   | 0.6   | 51    | 0.28  | 0.069 | 16    |
| 1287309 | Soil                             | 1.0   | 12.0  | 9.5   | 79    | <0.1  | 16.1  | 13.5  | 754   | 3.53  | 50.3  | 8.3   | 15.1  | 23    | 0.1   | 1.0   | 0.2   | 79    | 0.36  | 0.070 | 21    |
| 1287286 | Soil                             | 1.2   | 7.6   | 11.6  | 82    | <0.1  | 9.0   | 7.0   | 575   | 3.26  | 12.3  | 6.1   | 11.8  | 17    | 0.1   | 0.4   | 0.4   | 69    | 0.28  | 0.076 | 17    |
| 1287299 | Soil                             | 1.5   | 16.5  | 10.8  | 73    | 0.2   | 15.3  | 12.1  | 770   | 4.21  | 108.1 | 6.7   | 10.6  | 24    | 0.1   | 5.1   | 1.7   | 85    | 0.31  | 0.051 | 23    |
| 1287283 | Soil                             | 1.5   | 11.2  | 15.1  | 86    | <0.1  | 13.2  | 7.7   | 546   | 3.16  | 11.7  | 2.2   | 10.9  | 21    | 0.2   | 0.7   | 0.6   | 58    | 0.32  | 0.075 | 16    |
| 1287291 | Soil                             | 1.3   | 13.4  | 9.9   | 70    | 0.1   | 15.3  | 13.3  | 805   | 3.34  | 34.8  | 4.5   | 9.5   | 29    | 0.2   | 0.4   | 0.2   | 79    | 0.42  | 0.068 | 15    |
| 1287300 | Soil                             | 0.9   | 13.0  | 16.1  | 92    | <0.1  | 8.9   | 14.7  | 850   | 5.04  | 77.1  | 2.2   | 22.0  | 23    | <0.1  | 1.4   | 1.1   | 70    | 0.26  | 0.034 | 10    |
| 1287282 | Soil                             | 0.4   | 16.7  | 11.5  | 60    | <0.1  | 13.7  | 6.7   | 366   | 2.41  | 11.6  | 5.1   | 6.8   | 22    | 0.3   | 0.6   | 0.2   | 62    | 0.31  | 0.068 | 16    |
| 1287280 | Soil                             | 0.4   | 15.0  | 14.0  | 71    | <0.1  | 15.0  | 7.1   | 284   | 2.20  | 10.2  | 2.2   | 7.7   | 24    | 0.3   | 0.5   | 0.3   | 64    | 0.33  | 0.047 | 19    |



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**Report Date:** August 14, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000554.1

|         | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|         |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1287307 | Soil                             | 31    | 0.68  | 351   | 0.104 | 2     | 2.19  | 0.016 | 0.12  | 0.1   | 0.04  | 7.3   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1296308 | Soil                             | 55    | 0.74  | 154   | 0.107 | 1     | 2.29  | 0.013 | 0.12  | 0.2   | 0.02  | 3.9   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| 1287296 | Soil                             | 33    | 0.78  | 414   | 0.170 | 1     | 1.84  | 0.017 | 0.26  | 0.2   | 0.03  | 7.5   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1287305 | Soil                             | 36    | 0.72  | 180   | 0.117 | 1     | 3.04  | 0.015 | 0.08  | 0.2   | 0.07  | 6.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1287306 | Soil                             | 36    | 0.77  | 241   | 0.133 | 2     | 2.80  | 0.016 | 0.11  | 0.1   | 0.03  | 6.4   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1295685 | Soil                             | 44    | 0.76  | 106   | 0.106 | 1     | 2.28  | 0.009 | 0.08  | 0.1   | 0.02  | 3.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1287303 | Soil                             | 35    | 0.54  | 165   | 0.099 | 1     | 2.47  | 0.010 | 0.08  | 0.1   | 0.03  | 4.2   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| 1287304 | Soil                             | 28    | 0.44  | 191   | 0.069 | 1     | 1.95  | 0.010 | 0.10  | 0.2   | 0.03  | 7.1   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1287297 | Soil                             | 22    | 0.82  | 601   | 0.160 | <1    | 2.59  | 0.010 | 0.43  | 0.1   | 0.02  | 9.3   | 1.0   | <0.05 | 10    | 0.5   | <0.2  |
| 1296301 | Rock Pulp                        | 728   | 0.13  | 138   | 0.156 | 3     | 4.11  | 0.011 | 0.06  | <0.1  | 0.04  | 37.4  | 0.1   | <0.05 | 20    | <0.5  | <0.2  |
| 1287302 | Soil                             | 33    | 0.65  | 166   | 0.135 | 1     | 2.16  | 0.010 | 0.16  | 0.2   | 0.02  | 5.0   | 0.3   | <0.05 | 9     | <0.5  | <0.2  |
| 1287281 | Soil                             | 30    | 0.52  | 347   | 0.107 | 2     | 1.87  | 0.013 | 0.07  | 0.6   | 0.06  | 5.9   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| 1287308 | Soil                             | 21    | 0.69  | 270   | 0.147 | 1     | 1.69  | 0.015 | 0.16  | 0.2   | 0.01  | 5.8   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1287292 | Soil                             | 33    | 0.66  | 308   | 0.110 | 2     | 1.99  | 0.020 | 0.09  | 0.2   | 0.04  | 6.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1287301 | Rock Pulp                        | 674   | 0.13  | 136   | 0.165 | 4     | 4.02  | 0.012 | 0.06  | <0.1  | 0.03  | 39.0  | <0.1  | <0.05 | 21    | <0.5  | <0.2  |
| 1287288 | Soil                             | 33    | 0.55  | 269   | 0.070 | 1     | 2.43  | 0.013 | 0.13  | 0.2   | 0.08  | 7.3   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1287289 | Soil                             | 23    | 0.65  | 351   | 0.160 | 2     | 2.17  | 0.015 | 0.33  | 0.3   | 0.03  | 6.4   | 1.0   | <0.05 | 9     | <0.5  | <0.2  |
| 1287293 | Soil                             | 26    | 0.72  | 290   | 0.132 | 1     | 1.92  | 0.027 | 0.17  | 0.2   | 0.04  | 7.9   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| 1287284 | Soil                             | 23    | 0.55  | 272   | 0.126 | 2     | 1.84  | 0.013 | 0.12  | 0.6   | 0.03  | 4.5   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1287310 | Soil                             | 24    | 0.74  | 350   | 0.153 | 1     | 2.07  | 0.015 | 0.21  | 0.1   | 0.02  | 6.0   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| 1287285 | Soil                             | 19    | 0.51  | 282   | 0.134 | 1     | 1.61  | 0.014 | 0.12  | 1.4   | 0.03  | 4.4   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1287309 | Soil                             | 27    | 0.69  | 251   | 0.136 | <1    | 2.18  | 0.016 | 0.12  | 0.2   | 0.03  | 5.6   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| 1287286 | Soil                             | 16    | 0.56  | 304   | 0.154 | 1     | 1.90  | 0.014 | 0.20  | 1.0   | 0.03  | 4.2   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1287299 | Soil                             | 25    | 0.70  | 304   | 0.064 | 1     | 2.26  | 0.014 | 0.09  | 0.1   | 0.13  | 6.6   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1287283 | Soil                             | 23    | 0.54  | 260   | 0.126 | 2     | 1.80  | 0.016 | 0.11  | 1.3   | 0.06  | 5.1   | 0.3   | <0.05 | 6     | 0.6   | <0.2  |
| 1287291 | Soil                             | 27    | 0.70  | 210   | 0.139 | 1     | 2.00  | 0.020 | 0.11  | 0.2   | 0.04  | 5.3   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1287300 | Soil                             | 16    | 0.97  | 426   | 0.143 | <1    | 3.65  | 0.008 | 0.44  | 0.2   | 0.01  | 9.5   | 1.1   | <0.05 | 12    | <0.5  | <0.2  |
| 1287282 | Soil                             | 31    | 0.49  | 284   | 0.105 | 1     | 1.77  | 0.015 | 0.07  | 0.4   | 0.07  | 6.0   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1287280 | Soil                             | 29    | 0.54  | 295   | 0.107 | 2     | 1.81  | 0.016 | 0.07  | 0.4   | 0.09  | 6.6   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |



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Report Date:

August 14, 2012

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## QUALITY CONTROL REPORT

WHI12000554.1

|                     | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     | La    |
|                     |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     | ppm   |
|                     |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 | 1     |
| Pulp Duplicates     |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1295669             | Soil                             | 3.6   | 13.2  | 11.3  | 69    | 0.3   | 10.1  | 10.3  | 1127  | 3.29  | 74.8  | 8.9   | 14.2  | 87    | 0.2   | 1.8   | 0.5   | 67    | 1.09  | 0.062 | 60    |
| REP 1295669         | QC                               | 3.3   | 13.5  | 11.3  | 67    | 0.3   | 9.8   | 10.2  | 1172  | 3.29  | 71.9  | 12.4  | 14.2  | 86    | 0.1   | 1.6   | 0.5   | 67    | 1.11  | 0.064 | 59    |
| 1295675             | Soil                             | 2.4   | 7.6   | 15.4  | 62    | <0.1  | 11.4  | 9.6   | 465   | 3.36  | 63.7  | 3.0   | 5.3   | 15    | 0.2   | 1.1   | 0.2   | 71    | 0.14  | 0.044 | 10    |
| REP 1295675         | QC                               | 2.6   | 7.6   | 16.1  | 58    | <0.1  | 10.6  | 9.7   | 464   | 3.36  | 62.4  | 2.8   | 5.4   | 15    | 0.2   | 1.1   | 0.2   | 69    | 0.16  | 0.043 | 10    |
| 1295871             | Soil                             | 0.9   | 17.0  | 10.5  | 71    | 0.1   | 17.3  | 10.9  | 372   | 3.30  | 7.9   | 3.0   | 10.8  | 21    | 0.1   | 0.4   | 0.2   | 76    | 0.36  | 0.072 | 29    |
| REP 1295871         | QC                               | 0.7   | 16.3  | 10.6  | 72    | 0.1   | 17.3  | 10.9  | 365   | 3.25  | 8.5   | 3.2   | 10.7  | 21    | <0.1  | 0.4   | 0.2   | 73    | 0.36  | 0.069 | 28    |
| 1296333             | Soil                             | 1.5   | 63.4  | 10.5  | 74    | 0.4   | 31.5  | 19.4  | 480   | 3.36  | 14.1  | 5.8   | 1.7   | 23    | 0.2   | 0.5   | 0.1   | 74    | 0.45  | 0.086 | 17    |
| REP 1296333         | QC                               | 1.6   | 63.5  | 10.5  | 75    | 0.4   | 30.2  | 19.9  | 471   | 3.41  | 14.8  | 4.4   | 1.7   | 23    | 0.2   | 0.6   | 0.1   | 74    | 0.45  | 0.083 | 17    |
| 1296325             | Soil                             | 2.0   | 29.2  | 10.3  | 85    | 0.2   | 30.6  | 12.5  | 472   | 3.76  | 140.8 | 14.5  | 5.0   | 17    | 0.3   | 1.6   | 0.3   | 75    | 0.28  | 0.042 | 15    |
| REP 1296325         | QC                               | 1.9   | 30.0  | 10.4  | 85    | 0.2   | 31.5  | 12.8  | 497   | 3.81  | 141.8 | 15.8  | 5.2   | 17    | 0.3   | 1.6   | 0.2   | 73    | 0.29  | 0.043 | 16    |
| 1285268             | Soil                             | 1.6   | 10.5  | 11.6  | 67    | <0.1  | 16.9  | 11.8  | 530   | 3.79  | 36.9  | 6.4   | 15.0  | 12    | <0.1  | 2.5   | 0.2   | 76    | 0.18  | 0.043 | 15    |
| REP 1285268         | QC                               | 1.7   | 11.1  | 12.1  | 67    | <0.1  | 17.1  | 12.0  | 533   | 3.67  | 35.7  | 5.9   | 14.9  | 12    | 0.1   | 2.5   | 0.2   | 76    | 0.18  | 0.044 | 15    |
| 1285255             | Soil                             | 1.0   | 12.9  | 11.0  | 71    | <0.1  | 14.8  | 10.4  | 622   | 3.37  | 16.4  | 4.0   | 18.2  | 21    | <0.1  | 0.5   | 0.1   | 68    | 0.39  | 0.061 | 33    |
| REP 1285255         | QC                               | 1.1   | 13.2  | 10.9  | 72    | <0.1  | 15.5  | 10.6  | 627   | 3.44  | 16.2  | 2.9   | 18.0  | 22    | <0.1  | 0.5   | 0.1   | 68    | 0.37  | 0.062 | 33    |
| 1295693             | Soil                             | 0.6   | 14.5  | 5.3   | 52    | <0.1  | 51.5  | 20.4  | 501   | 4.00  | 5.5   | 10.0  | 8.1   | 15    | <0.1  | 0.2   | <0.1  | 88    | 0.38  | 0.029 | 24    |
| REP 1295693         | QC                               | 0.6   | 14.4  | 5.3   | 52    | <0.1  | 49.1  | 19.9  | 503   | 3.88  | 5.5   | 0.9   | 8.0   | 15    | <0.1  | 0.2   | <0.1  | 85    | 0.38  | 0.028 | 24    |
| 1295690             | Soil                             | 1.4   | 15.0  | 7.9   | 47    | <0.1  | 26.8  | 10.1  | 332   | 3.42  | 18.8  | 1.4   | 7.9   | 14    | <0.1  | 0.6   | 0.1   | 80    | 0.23  | 0.029 | 19    |
| REP 1295690         | QC                               | 1.4   | 14.1  | 7.8   | 47    | <0.1  | 24.1  | 9.6   | 308   | 3.27  | 17.7  | 2.2   | 7.8   | 13    | <0.1  | 0.6   | 0.1   | 74    | 0.22  | 0.028 | 18    |
| 1287297             | Soil                             | 1.7   | 11.4  | 12.4  | 88    | <0.1  | 12.1  | 12.2  | 812   | 4.36  | 87.5  | 20.4  | 27.9  | 18    | <0.1  | 1.1   | <0.1  | 77    | 0.28  | 0.065 | 50    |
| REP 1287297         | QC                               | 1.7   | 11.7  | 11.9  | 87    | <0.1  | 11.8  | 12.2  | 805   | 4.43  | 86.2  | 19.5  | 27.5  | 18    | <0.1  | 1.1   | <0.1  | 75    | 0.28  | 0.065 | 49    |
| 1287292             | Soil                             | 1.7   | 17.7  | 11.7  | 70    | 0.2   | 17.9  | 10.5  | 612   | 3.21  | 29.3  | 5.5   | 12.6  | 41    | 0.1   | 0.5   | 0.2   | 75    | 0.60  | 0.068 | 25    |
| REP 1287292         | QC                               | 1.4   | 18.4  | 12.0  | 71    | 0.2   | 19.1  | 10.7  | 609   | 3.28  | 28.9  | 7.2   | 12.4  | 39    | 0.1   | 0.6   | 0.2   | 73    | 0.60  | 0.069 | 24    |
| Reference Materials |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS9             | Standard                         | 13.6  | 99.8  | 110.1 | 299   | 1.9   | 41.1  | 7.5   | 565   | 2.27  | 24.4  | 119.4 | 5.5   | 59    | 2.4   | 5.0   | 5.4   | 44    | 0.68  | 0.075 | 13    |
| STD DS9             | Standard                         | 13.4  | 91.4  | 118.3 | 283   | 1.8   | 40.1  | 7.9   | 566   | 2.24  | 21.9  | 115.4 | 5.0   | 57    | 1.7   | 4.7   | 4.3   | 45    | 0.70  | 0.075 | 11    |
| STD DS9             | Standard                         | 13.3  | 102.2 | 111.8 | 293   | 1.7   | 42.6  | 7.9   | 587   | 2.35  | 23.8  | 111.5 | 5.7   | 61    | 2.1   | 4.8   | 5.0   | 45    | 0.72  | 0.075 | 15    |
| STD DS9             | Standard                         | 14.1  | 117.0 | 115.7 | 310   | 1.9   | 42.8  | 7.9   | 587   | 2.37  | 24.7  | 117.9 | 6.5   | 63    | 2.2   | 4.9   | 5.8   | 47    | 0.72  | 0.076 | 13    |
| STD DS9             | Standard                         | 13.4  | 108.9 | 121.4 | 317   | 2.1   | 41.2  | 7.9   | 582   | 2.35  | 25.2  | 126.0 | 6.2   | 76    | 2.5   | 5.8   | 6.9   | 41    | 0.69  | 0.079 | 13    |



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Project:

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Report Date:

August 14, 2012

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Part:

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## QUALITY CONTROL REPORT

WHI12000554.1

|                     | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     |                                  | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|                     |                                  | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|                     |                                  | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| Pulp Duplicates     |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1295669             | Soil                             | 18    | 0.57  | 436   | 0.106 | 2     | 1.54  | 0.016 | 0.18  | 0.2   | 0.06  | 7.8   | 0.4   | <0.05 | 7     | 0.6   | <0.2  |
| REP 1295669         | QC                               | 18    | 0.58  | 435   | 0.102 | 2     | 1.55  | 0.015 | 0.18  | 0.2   | 0.06  | 7.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295675             | Soil                             | 18    | 0.41  | 160   | 0.062 | 1     | 1.48  | 0.012 | 0.11  | 0.1   | 0.02  | 5.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1295675         | QC                               | 18    | 0.42  | 159   | 0.064 | <1    | 1.49  | 0.012 | 0.12  | 0.1   | 0.03  | 5.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| 1295871             | Soil                             | 32    | 0.66  | 295   | 0.124 | 1     | 2.12  | 0.013 | 0.09  | 0.3   | 0.07  | 6.6   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1295871         | QC                               | 31    | 0.66  | 289   | 0.121 | 2     | 2.06  | 0.014 | 0.08  | 0.2   | 0.08  | 6.5   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1296333             | Soil                             | 42    | 0.76  | 562   | 0.067 | 1     | 2.50  | 0.014 | 0.07  | 0.2   | 0.07  | 6.2   | 0.2   | <0.05 | 6     | 0.8   | <0.2  |
| REP 1296333         | QC                               | 42    | 0.72  | 561   | 0.068 | 2     | 2.37  | 0.014 | 0.06  | 0.2   | 0.07  | 6.1   | 0.2   | <0.05 | 6     | 0.9   | <0.2  |
| 1296325             | Soil                             | 40    | 0.61  | 650   | 0.052 | 2     | 1.98  | 0.009 | 0.09  | 0.1   | 0.03  | 4.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1296325         | QC                               | 41    | 0.61  | 664   | 0.053 | <1    | 1.97  | 0.009 | 0.09  | 0.1   | 0.03  | 4.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| 1285268             | Soil                             | 30    | 0.57  | 214   | 0.119 | 2     | 2.05  | 0.011 | 0.20  | 0.2   | 0.02  | 5.7   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1285268         | QC                               | 31    | 0.58  | 217   | 0.126 | 1     | 2.19  | 0.011 | 0.17  | 0.2   | 0.02  | 5.9   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| 1285255             | Soil                             | 27    | 0.59  | 240   | 0.086 | <1    | 1.90  | 0.012 | 0.15  | 0.2   | 0.02  | 6.7   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1285255         | QC                               | 27    | 0.61  | 241   | 0.087 | <1    | 1.92  | 0.012 | 0.15  | 0.2   | 0.03  | 6.9   | 0.5   | <0.05 | 7     | <0.5  | <0.2  |
| 1295693             | Soil                             | 122   | 2.08  | 318   | 0.220 | <1    | 2.89  | 0.010 | 0.69  | 0.1   | <0.01 | 4.1   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| REP 1295693         | QC                               | 116   | 2.03  | 314   | 0.210 | <1    | 2.89  | 0.010 | 0.73  | 0.1   | <0.01 | 4.0   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| 1295690             | Soil                             | 47    | 0.74  | 148   | 0.106 | 1     | 2.13  | 0.010 | 0.10  | 0.2   | 0.01  | 3.6   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1295690         | QC                               | 44    | 0.74  | 143   | 0.100 | 1     | 2.00  | 0.010 | 0.09  | 0.2   | 0.02  | 3.5   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| 1287297             | Soil                             | 22    | 0.82  | 601   | 0.160 | <1    | 2.59  | 0.010 | 0.43  | 0.1   | 0.02  | 9.3   | 1.0   | <0.05 | 10    | 0.5   | <0.2  |
| REP 1287297         | QC                               | 20    | 0.80  | 596   | 0.156 | <1    | 2.53  | 0.010 | 0.43  | 0.2   | 0.02  | 9.3   | 1.0   | <0.05 | 9     | <0.5  | <0.2  |
| 1287292             | Soil                             | 33    | 0.66  | 308   | 0.110 | 2     | 1.99  | 0.020 | 0.09  | 0.2   | 0.04  | 6.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| REP 1287292         | QC                               | 32    | 0.64  | 309   | 0.106 | 1     | 1.83  | 0.018 | 0.09  | 0.2   | 0.04  | 6.3   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| Reference Materials |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS9             | Standard                         | 128   | 0.62  | 287   | 0.107 | 3     | 0.89  | 0.081 | 0.37  | 3.0   | 0.19  | 2.0   | 5.5   | 0.09  | 5     | 5.6   | 5.0   |
| STD DS9             | Standard                         | 122   | 0.61  | 284   | 0.105 | 2     | 0.95  | 0.079 | 0.32  | 3.0   | 0.21  | 2.4   | 5.4   | <0.05 | 4     | 5.0   | 5.1   |
| STD DS9             | Standard                         | 131   | 0.61  | 284   | 0.111 | 2     | 0.86  | 0.080 | 0.33  | 3.0   | 0.20  | 2.3   | 5.2   | 0.10  | 5     | 4.6   | 4.8   |
| STD DS9             | Standard                         | 125   | 0.62  | 295   | 0.108 | 3     | 0.92  | 0.082 | 0.34  | 3.1   | 0.19  | 2.5   | 5.6   | 0.16  | 5     | 5.6   | 5.1   |
| STD DS9             | Standard                         | 116   | 0.59  | 307   | 0.109 | 3     | 0.94  | 0.097 | 0.38  | 3.0   | 0.23  | 3.0   | 5.5   | 0.06  | 5     | 5.4   | 4.9   |



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Report Date: **August 14, 2012**

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## QUALITY CONTROL REPORT

**WHI12000554.1**

|                  |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15  | 1DX15 |
|------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
|                  |          | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca     | P      | La    |
|                  |          | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %      | %      | ppm   |
|                  |          | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01   | 0.001  | 1     |
| STD DS9          | Standard | 13.0  | 108.3 | 129.1 | 317   | 1.8   | 42.4  | 8.0   | 585   | 2.32  | 23.9  | 122.9 | 6.3   | 72    | 2.3   | 5.8   | 6.5   | 43    | 0.69   | 0.083  | 13    |
| STD DS9 Expected |          | 12.84 | 108   | 126   | 317   | 1.83  | 40.3  | 7.6   | 575   | 2.33  | 25.5  | 118   | 6.38  | 69.6  | 2.4   | 4.94  | 6.32  | 40    | 0.7201 | 0.0819 | 13.3  |
| BLK              | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01  | <0.001 | <1    |
| BLK              | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | 5     | <0.01  | <0.001 | <1    |
| BLK              | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01  | <0.001 | <1    |
| BLK              | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01  | <0.001 | <1    |
| BLK              | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01  | <0.001 | <1    |
| BLK              | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01  | <0.001 | <1    |





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**Project:** SUG

**Report Date:** August 14, 2012

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**Part:** 2 of 2

## QUALITY CONTROL REPORT

WHI12000554.1

|                  |          | 1DX15 | 1DX15  | 1DX15 | 1DX15  | 1DX15 | 1DX15  | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 |
|------------------|----------|-------|--------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
|                  |          | Cr    | Mg     | Ba    | Ti     | B     | Al     | Na     | K     | W     | Hg    | Sc    | Ti    | S      | Ga    | Se    | Te    |
|                  |          | ppm   | %      | ppm   | %      | ppm   | %      | %      | %     | ppm   | ppm   | ppm   | ppm   | %      | ppm   | ppm   | ppm   |
|                  |          | 1     | 0.01   | 1     | 0.001  | 1     | 0.01   | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05   | 1     | 0.5   | 0.2   |
| STD DS9          | Standard | 126   | 0.63   | 301   | 0.115  | 3     | 0.92   | 0.094  | 0.37  | 3.2   | 0.21  | 2.6   | 5.5   | 0.12   | 5     | 5.9   | 5.2   |
| STD DS9 Expected |          | 121   | 0.6165 | 295   | 0.1108 |       | 0.9577 | 0.0853 | 0.395 | 2.89  | 0.2   | 2.5   | 5.3   | 0.1615 | 4.59  | 5.2   | 5.02  |
| BLK              | Blank    | <1    | <0.01  | <1    | <0.001 | <1    | <0.01  | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05  | <1    | <0.5  | <0.2  |
| BLK              | Blank    | <1    | <0.01  | <1    | <0.001 | <1    | <0.01  | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05  | <1    | <0.5  | <0.2  |
| BLK              | Blank    | <1    | <0.01  | <1    | <0.001 | <1    | <0.01  | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05  | <1    | <0.5  | <0.2  |
| BLK              | Blank    | <1    | <0.01  | <1    | <0.001 | <1    | <0.01  | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05  | <1    | <0.5  | <0.2  |
| BLK              | Blank    | <1    | <0.01  | <1    | <0.001 | <1    | <0.01  | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05  | <1    | <0.5  | <0.2  |
| BLK              | Blank    | <1    | <0.01  | <1    | <0.001 | <1    | <0.01  | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05  | <1    | <0.5  | <0.2  |