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Finalized Date: 6-DEC-2010  
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## QC CERTIFICATE PH10173275

Project: CALVERT

P.O. No.: REDEX - 12

This report is for 185 Soil samples submitted to our lab in Perth, WA, Australia on 23-NOV-2010.

The following have access to data associated with this certificate:

RUSSELL BIRRELL

CRAIG HALL

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| LEV-01   | Waste Disposal Levy            |
| LOG-22   | Sample login - Rcd w/o BarCode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                        |
|----------|------------------------------------|
| pH-MS23  | MS23 Leach pH                      |
| ME-MS23  | IONIC Leach - Complete PKG. ICP-MS |

To: REDBANK COPPER LTD  
ATTN: RUSSELL BIRRELL  
PO BOX 8116  
SUBIACO EAST WA 6008

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

Signature:

Wayne Abbott, Operations Manager, Western Australia



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QC CERTIFICATE OF ANALYSIS PH10173275

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | pH-MS23  | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |
|----------------------------|-----------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                            |                                   | Final pH | Ag      | As      | Au      | Ba      | Be      | Bi      | Br      | Ca      | Cd      | Ce      | Co      | Cr      | Cs      | Cu      |
|                            |                                   | Unity    | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppm     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     |
|                            |                                   | 0.1      | 0.1     | 2       | 0.02    | 10      | 0.2     | 3       | 0.05    | 0.2     | 1       | 0.1     | 0.3     | 1       | 0.1     | 1       |
| STANDARDS                  |                                   |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| ION-SRM18                  |                                   | 9.0      | 16.1    | 4       | 7.74    | 180     | <0.2    | <3      | 1.29    | 146.0   | 65      | 16.4    | 57.9    | 4       | 6.9     | 750     |
| ION-SRM18                  |                                   | 9.0      | 16.0    | 4       | 7.69    | 180     | <0.2    | <3      | 1.28    | 145.0   | 64      | 16.3    | 57.5    | 4       | 6.9     | 745     |
| ION-SRM18                  |                                   | 9.0      | 16.5    | 8       | 5.43    | 210     | <0.2    | <3      | 1.37    | 150.0   | 59      | 16.4    | 57.8    | 6       | 6.7     | 790     |
| ION-SRM18                  |                                   | 9.0      | 17.0    | 11      | 7.54    | 180     | <0.2    | <3      | 1.38    | 151.5   | 60      | 14.8    | 60.8    | 5       | 6.8     | 717     |
| ION-SRM18                  |                                   | 9.0      | 20.5    | 9       | 7.36    | 190     | <0.2    | <3      | 1.70    | 170.5   | 72      | 17.5    | 65.5    | 7       | 8.1     | 810     |
| ION-SRM18                  |                                   | 9.0      | 16.9    | 15      | 5.48    | 180     | <0.2    | <3      | 1.32    | 136.5   | 59      | 14.2    | 51.5    | 5       | 6.7     | 606     |
| ION-SRM18                  |                                   | 9.0      | 17.2    | 9       | 6.97    | 200     | <0.2    | <3      | 1.52    | 160.5   | 70      | 18.7    | 60.5    | 7       | 7.6     | 773     |
| ION-SRM18                  |                                   | 9.0      | 18.9    | 12      | 7.68    | 170     | <0.2    | <3      | 1.54    | 149.0   | 69      | 14.2    | 57.8    | 5       | 7.5     | 780     |
| ION-SRM18                  |                                   | 9.0      | 18.4    | 10      | 6.66    | 200     | <0.2    | <3      | 1.56    | 162.0   | 75      | 16.6    | 63.4    | 7       | 7.8     | 726     |
| ION-SRM18                  |                                   | 9.0      | 19.1    | 13      | 8.22    | 150     | 0.2     | <3      | 1.42    | 126.5   | 59      | 10.3    | 55.9    | 5       | 7.0     | 717     |
| ION-SRM18                  |                                   | 9.0      | 19.2    | 10      | 6.91    | 180     | <0.2    | <3      | 1.50    | 141.0   | 58      | 16.6    | 57.0    | 7       | 7.4     | 723     |
| ION-SRM18                  |                                   | 9.0      | 19.2    | 10      | 6.92    | 180     | <0.2    | <3      | 1.50    | 141.0   | 58      | 16.6    | 57.0    | 7       | 7.4     | 723     |
| Target Range - Lower Bound |                                   |          | 15.7    | 5       | 6.83    | 180     | <0.2    | <3      | 1.23    | 139.5   | 58      | 13.6    | 54.6    | 4       | 6.6     | 693     |
| Upper Bound                |                                   |          | 19.4    | 11      | 8.39    | 240     | 0.4     | 6       | 1.61    | 171.0   | 73      | 16.8    | 67.3    | 7       | 8.2     | 849     |
| BLANKS                     |                                   |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| BLANK                      |                                   | 9.0      | 0.1     | <2      | 0.02    | 10      | <0.2    | <3      | <0.05   | <0.2    | <1      | <0.1    | <0.3    | <1      | <0.1    | <1      |
| BLANK                      |                                   | 9.0      | <0.1    | <2      | 0.02    | 10      | <0.2    | <3      | <0.05   | 0.3     | <1      | <0.1    | <0.3    | <1      | <0.1    | 1       |
| BLANK                      |                                   | 9.0      | <0.1    | <2      | 0.02    | 10      | <0.2    | <3      | <0.05   | 0.2     | <1      | 0.1     | 0.3     | 2       | <0.1    | <1      |
| BLANK                      |                                   | 9.0      | <0.1    | <2      | <0.02   | <10     | <0.2    | <3      | <0.05   | <0.2    | <1      | <0.1    | 0.4     | 1       | <0.1    | <1      |
| BLANK                      |                                   | 9.0      | <0.1    | <2      | <0.02   | 10      | <0.2    | <3      | <0.05   | <0.2    | <1      | 0.1     | <0.3    | 1       | <0.1    | 2       |
| BLANK                      |                                   | 9.0      | <0.1    | <2      | 0.02    | <10     | <0.2    | <3      | <0.05   | 0.2     | <1      | 0.2     | <0.3    | <1      | <0.1    | 1       |
| Target Range - Lower Bound |                                   | 8.8      | <0.1    | <2      | <0.02   | <10     | <0.2    | <3      | <0.05   | <0.2    | <1      | <0.1    | <0.3    | <1      | <0.1    | <1      |
| Upper Bound                |                                   | 9.2      | 0.2     | 4       | 0.04    | 20      | 0.4     | 6       | 0.10    | 0.4     | 2       | 0.2     | 0.6     | 2       | 0.2     | 2       |
| DUPLICATES                 |                                   |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| REX1846                    |                                   | 7.9      | 1.8     | 13      | 0.05    | 600     | 11.9    | <3      | 0.20    | 62.6    | 1       | 862     | 262     | 42      | 14.9    | 4660    |
| DUP                        |                                   | 7.9      | 1.8     | 13      | 0.05    | 600     | 12.0    | <3      | 0.20    | 62.9    | 1       | 866     | 264     | 42      | 14.9    | 4680    |
| Target Range - Lower Bound |                                   | 7.4      | 1.6     | 10      | 0.03    | 560     | 11.2    | <3      | 0.14    | 59.4    | <1      | 821     | 250     | 39      | 14.1    | 4440    |
| Upper Bound                |                                   | 8.4      | 2.0     | 16      | 0.07    | 640     | 12.7    | 6       | 0.26    | 66.1    | 2       | 907     | 276     | 45      | 15.7    | 4900    |



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QC CERTIFICATE OF ANALYSIS PH10173275

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |     |
|----------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                            |                                   | Dy      | Er      | Eu      | Fe      | Ga      | Gd      | Ge      | Hf      | Hg      | Ho      | I       | In      | La      | Li      | Lu      |     |
|                            |                                   | ppb     | ppb     | ppb     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb |
|                            |                                   | 0.1     | 0.1     | 0.1     | 0.1     | 0.5     | 0.1     | 0.1     | 0.5     | 0.1     | 0.1     | 0.01    | 0.1     | 0.1     | 0.2     | 0.1     |     |
| STANDARDS                  |                                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| ION-SRM18                  |                                   | 1.5     | 0.8     | 0.9     | 2.2     | 5.2     | 3.2     | <0.1    | <0.5    | 4.3     | 0.4     | 0.15    | <0.1    | 5.5     | 0.2     | 0.1     |     |
| ION-SRM18                  |                                   | 1.5     | 0.8     | 0.9     | 2.2     | 5.1     | 3.2     | <0.1    | <0.5    | 4.3     | 0.4     | 0.15    | <0.1    | 5.5     | 0.2     | 0.1     |     |
| ION-SRM18                  |                                   | 1.7     | 0.8     | 0.8     | 2.1     | 6.4     | 3.2     | <0.1    | <0.5    | 4.7     | 0.4     | 0.16    | <0.1    | 5.6     | 0.2     | 0.1     |     |
| ION-SRM18                  |                                   | 1.4     | 0.7     | 0.7     | 1.9     | 5.8     | 2.9     | <0.1    | <0.5    | 4.0     | 0.3     | 0.15    | <0.1    | 5.1     | 0.2     | <0.1    |     |
| ION-SRM18                  |                                   | 1.7     | 0.8     | 0.8     | 2.2     | 6.5     | 3.3     | 0.1     | <0.5    | 4.4     | 0.3     | 0.17    | <0.1    | 5.3     | 0.2     | 0.1     |     |
| ION-SRM18                  |                                   | 1.2     | 0.7     | 0.6     | 1.8     | 6.1     | 2.8     | 0.1     | <0.5    | 4.1     | 0.3     | 0.14    | <0.1    | 4.4     | <0.2    | <0.1    |     |
| ION-SRM18                  |                                   | 1.8     | 0.8     | 1.0     | 2.2     | 6.1     | 3.8     | <0.1    | <0.5    | 4.7     | 0.4     | 0.17    | <0.1    | 5.9     | 0.2     | 0.1     |     |
| ION-SRM18                  |                                   | 1.4     | 0.6     | 0.8     | 1.8     | 5.2     | 2.8     | <0.1    | <0.5    | 3.7     | 0.3     | 0.15    | <0.1    | 4.5     | 0.6     | <0.1    |     |
| ION-SRM18                  |                                   | 2.0     | 0.8     | 0.9     | 2.1     | 6.7     | 4.3     | 0.1     | <0.5    | 4.4     | 0.4     | 0.22    | <0.1    | 5.5     | 0.4     | 0.1     |     |
| ION-SRM18                  |                                   | 1.3     | 0.5     | 0.6     | 1.6     | 5.0     | 2.7     | 0.1     | <0.5    | 3.0     | 0.2     | 0.15    | <0.1    | 3.3     | 0.2     | <0.1    |     |
| ION-SRM18                  |                                   | 1.5     | 0.8     | 0.9     | 2.1     | 6.5     | 3.2     | <0.1    | <0.5    | 3.8     | 0.4     | 0.17    | <0.1    | 5.2     | 0.3     | <0.1    |     |
| ION-SRM18                  |                                   | 1.5     | 0.8     | 0.9     | 2.1     | 6.5     | 3.2     | <0.1    | <0.5    | 3.8     | 0.4     | 0.17    | <0.1    | 5.2     | 0.3     | <0.1    |     |
| Target Range - Lower Bound |                                   | 1.1     | 0.5     | 0.6     | 2.0     | 4.6     | 2.5     | <0.1    | <0.5    | 3.7     | <0.1    | 0.13    | <0.1    | 4.4     | <0.2    | <0.1    |     |
| Upper Bound                |                                   | 1.5     | 0.9     | 1.0     | 2.7     | 6.7     | 3.3     | 0.2     | 1.0     | 4.8     | 0.3     | 0.18    | 0.2     | 5.6     | 0.4     | 0.2     |     |
| BLANKS                     |                                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| BLANK                      |                                   | <0.1    | <0.1    | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.01   | <0.1    | <0.1    | 0.2     | <0.1    |     |
| BLANK                      |                                   | <0.1    | <0.1    | <0.1    | 0.2     | <0.5    | <0.1    | <0.1    | <0.5    | 0.1     | <0.1    | <0.01   | <0.1    | <0.1    | 0.2     | <0.1    |     |
| BLANK                      |                                   | <0.1    | <0.1    | <0.1    | 0.2     | <0.5    | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.01   | <0.1    | 0.1     | <0.2    | <0.1    |     |
| BLANK                      |                                   | <0.1    | 0.1     | 0.1     | 0.1     | 0.7     | <0.1    | <0.1    | <0.5    | 0.1     | <0.1    | <0.01   | <0.1    | <0.1    | 0.2     | <0.1    |     |
| BLANK                      |                                   | 0.2     | 0.1     | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.01   | <0.1    | 0.2     | <0.2    | <0.1    |     |
| BLANK                      |                                   | <0.1    | <0.1    | 0.1     | 0.1     | <0.5    | <0.1    | 0.1     | <0.5    | 0.1     | <0.1    | <0.01   | <0.1    | <0.1    | 0.3     | <0.1    |     |
| Target Range - Lower Bound |                                   | <0.1    | <0.1    | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.5    | <0.1    | <0.1    | <0.01   |         | <0.1    | <0.2    | <0.1    |     |
| Upper Bound                |                                   | 0.2     | 0.2     | 0.2     | 0.2     | 1.0     | 0.2     | 0.2     | 1.0     | 0.2     | 0.2     | 0.02    |         | 0.2     | 0.4     | 0.2     |     |
| DUPLICATES                 |                                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| REX1846                    |                                   | 95.9    | 50.5    | 32.4    | 26.0    | 31.8    | 127.5   | 2.5     | 6.2     | 0.7     | 24.5    | 0.32    | 0.2     | 252     | 6.3     | 4.3     |     |
| DUP                        |                                   | 96.3    | 50.7    | 32.5    | 26.1    | 31.9    | 128.0   | 2.5     | 6.2     | 0.7     | 24.6    | 0.32    | 0.2     | 253     | 6.4     | 4.3     |     |
| Target Range - Lower Bound |                                   | 91.2    | 48.0    | 30.7    | 24.6    | 29.8    | 121.5   | 2.3     | 5.4     | 0.6     | 23.2    | 0.29    | <0.1    | 240     | 5.8     | 4.0     |     |
| Upper Bound                |                                   | 101.0   | 53.2    | 34.2    | 27.5    | 33.9    | 134.0   | 2.7     | 7.0     | 0.8     | 25.9    | 0.35    | 0.3     | 265     | 6.9     | 4.6     |     |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |
|----------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                            |                                   | Mg      | Mn      | Mo      | Nb      | Nd      | Ni      | Pb      | Pb 206  | Pb 207  | Pb 208  | Pd      | Pr      | Rb      | Re      | Sb      |
|                            |                                   | ppm     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     |
|                            |                                   | 0.01    | 0.01    | 0.5     | 0.1     | 0.1     | 1       | 1       | 1       | 1       | 1       | 0.1     | 0.1     | 0.1     | 0.1     | 0.5     |
| STANDARDS                  |                                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| ION-SRM18                  |                                   | 69.8    | 0.45    | 28.6    | <0.1    | 14.1    | 537     | 92      | 22      | 20      | 48      | 10.8    | 2.3     | 162.5   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 69.3    | 0.44    | 28.4    | <0.1    | 14.0    | 534     | 91      | 22      | 20      | 48      | 10.7    | 2.3     | 161.5   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 70.3    | 0.42    | 27.8    | <0.1    | 14.0    | 507     | 68      | 16      | 15      | 36      | 10.7    | 2.3     | 169.5   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 70.9    | 0.44    | 28.0    | <0.1    | 12.7    | 543     | 92      | 22      | 20      | 49      | 11.4    | 2.0     | 158.0   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 80.4    | 0.52    | 32.4    | <0.1    | 14.1    | 602     | 79      | 18      | 17      | 43      | 12.0    | 2.9     | 185.5   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 67.3    | 0.44    | 26.5    | <0.1    | 11.9    | 484     | 63      | 14      | 14      | 34      | 9.5     | 2.3     | 159.0   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 74.0    | 0.47    | 29.5    | 0.1     | 14.9    | 530     | 87      | 21      | 19      | 50      | 11.5    | 2.9     | 167.0   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 73.5    | 0.43    | 28.7    | <0.1    | 11.7    | 519     | 81      | 19      | 18      | 46      | 12.6    | 2.2     | 162.0   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 75.2    | 0.47    | 30.3    | 0.1     | 14.0    | 553     | 82      | 20      | 18      | 43      | 11.2    | 3.0     | 186.5   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 61.1    | 0.33    | 23.5    | <0.1    | 8.7     | 492     | 74      | 18      | 16      | 39      | 11.7    | 1.9     | 158.0   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 67.6    | 0.42    | 27.1    | <0.1    | 13.5    | 497     | 94      | 22      | 19      | 50      | 11.1    | 2.1     | 171.5   | <0.1    | <0.5    |
| ION-SRM18                  |                                   | 67.7    | 0.42    | 27.1    | <0.1    | 13.5    | 497     | 94      | 22      | 19      | 50      | 11.1    | 2.1     | 171.5   | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 66.4    | 0.41    | 26.3    | <0.1    | 11.4    | 495     | 77      | 17      | 17      |         | 10.6    | 1.7     | 156.5   | <0.1    | <0.5    |
| Upper Bound                |                                   | 81.2    | 0.53    | 33.3    | 0.2     | 14.2    | 607     | 97      | 23      | 23      |         | 13.2    | 2.3     | 191.5   | 0.2     | 1.0     |
| BLANKS                     |                                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| BLANK                      |                                   | 0.01    | <0.01   | <0.5    | <0.1    | <0.1    | 1       | <1      | <1      | <1      | <1      | <0.1    | <0.1    | 0.1     | <0.1    | <0.5    |
| BLANK                      |                                   | 0.02    | 0.01    | <0.5    | <0.1    | <0.1    | 1       | <1      | <1      | <1      | <1      | <0.1    | <0.1    | <0.1    | <0.1    | <0.5    |
| BLANK                      |                                   | 0.01    | 0.02    | <0.5    | <0.1    | <0.1    | 1       | <1      | <1      | <1      | <1      | <0.1    | 0.1     | 0.1     | <0.1    | <0.5    |
| BLANK                      |                                   | 0.01    | 0.01    | <0.5    | <0.1    | <0.1    | 1       | <1      | <1      | <1      | <1      | <0.1    | 0.1     | 0.2     | <0.1    | <0.5    |
| BLANK                      |                                   | 0.01    | 0.01    | <0.5    | <0.1    | <0.1    | <1      | <1      | <1      | <1      | <1      | <0.1    | 0.1     | 0.1     | <0.1    | <0.5    |
| BLANK                      |                                   | 0.01    | <0.01   | <0.5    | <0.1    | <0.1    | <1      | 1       | <1      | <1      | 1       | <0.1    | <0.1    | 0.1     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | <0.01   | <0.01   | <0.5    | <0.1    | <0.1    | <1      | <1      | <1      | <1      |         | <0.1    | <0.1    | <0.1    | <0.1    | <0.5    |
| Upper Bound                |                                   | 0.02    | 0.02    | 1.0     | 0.2     | 0.2     | 2       | 2       | 2       | 2       |         | 0.2     | 0.2     | 0.2     | 0.2     | 1.0     |
| DUPLICATES                 |                                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| REX1846                    |                                   | 7.77    | 17.80   | 6.6     | 1.8     | 470     | 104     | 202     | 54      | 44      | 101     | 6.8     | 113.5   | 496     | <0.1    | 0.8     |
| DUP                        |                                   | 7.80    | 17.90   | 6.6     | 1.8     | 472     | 104     | 203     | 54      | 45      | 101     | 6.8     | 114.0   | 498     | <0.1    | 0.8     |
| Target Range - Lower Bound |                                   | 7.39    | 16.95   | 5.8     | 1.6     | 447     | 98      | 191     | 50      | 41      | 95      | 6.4     | 108.0   | 472     | <0.1    | <0.5    |
| Upper Bound                |                                   | 8.18    | 18.75   | 7.4     | 2.0     | 495     | 110     | 214     | 58      | 48      | 107     | 7.2     | 119.5   | 522     | 0.2     | 1.0     |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Sc<br>ppb<br>1 | ME-MS23<br>Se<br>ppb<br>2 | ME-MS23<br>Sm<br>ppb<br>0.1 | ME-MS23<br>Sn<br>ppb<br>0.2 | ME-MS23<br>Sr<br>ppb<br>1 | ME-MS23<br>Ta<br>ppb<br>1 | ME-MS23<br>Tb<br>ppb<br>0.1 | ME-MS23<br>Te<br>ppb<br>1 | ME-MS23<br>Th<br>ppb<br>0.02 | ME-MS23<br>Ti<br>ppb<br>5 | ME-MS23<br>Tl<br>ppb<br>0.5 | ME-MS23<br>Tm<br>ppb<br>0.1 | ME-MS23<br>U<br>ppb<br>0.1 | ME-MS23<br>W<br>ppb<br>1 | ME-MS23<br>Y<br>ppb<br>0.1 |
|----------------------------|-----------------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|
| STANDARDS                  |                                   |                           |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |
| ION-SRM18                  |                                   | 2                         | 13                        | 3.2                         | <0.2                        | 1090                      | <1                        | 0.5                         | <1                        | 3.73                         | 26                        | <0.5                        | 0.1                         | 10.1                       | <1                       | 9.9                        |
| ION-SRM18                  |                                   | 2                         | 13                        | 3.2                         | <0.2                        | 1090                      | <1                        | 0.5                         | <1                        | 3.70                         | 26                        | <0.5                        | 0.1                         | 10.0                       | <1                       | 9.8                        |
| ION-SRM18                  |                                   | 2                         | 27                        | 3.4                         | <0.2                        | 1180                      | <1                        | 0.5                         | <1                        | 4.41                         | 23                        | <0.5                        | 0.1                         | 9.2                        | <1                       | 10.6                       |
| ION-SRM18                  |                                   | 2                         | 18                        | 2.9                         | <0.2                        | 862                       | <1                        | 0.4                         | <1                        | 3.62                         | 23                        | <0.5                        | 0.1                         | 8.8                        | <1                       | 9.1                        |
| ION-SRM18                  |                                   | 2                         | 43                        | 3.3                         | <0.2                        | 1090                      | <1                        | 0.5                         | 1                         | 4.66                         | 23                        | <0.5                        | 0.1                         | 10.7                       | <1                       | 11.1                       |
| ION-SRM18                  |                                   | 2                         | 14                        | 2.9                         | <0.2                        | 1150                      | <1                        | 0.4                         | 2                         | 3.77                         | 22                        | <0.5                        | 0.1                         | 8.8                        | <1                       | 8.9                        |
| ION-SRM18                  |                                   | 3                         | 15                        | 3.7                         | <0.2                        | 1220                      | <1                        | 0.5                         | 1                         | 5.25                         | 26                        | <0.5                        | 0.1                         | 10.8                       | <1                       | 11.3                       |
| ION-SRM18                  |                                   | 2                         | 34                        | 2.9                         | <0.2                        | 934                       | <1                        | 0.4                         | 4                         | 3.64                         | 23                        | <0.5                        | 0.1                         | 8.8                        | <1                       | 8.9                        |
| ION-SRM18                  |                                   | 3                         | 7                         | 4.0                         | <0.2                        | 1090                      | <1                        | 0.5                         | 2                         | 6.06                         | 24                        | <0.5                        | 0.1                         | 13.9                       | <1                       | 13.2                       |
| ION-SRM18                  |                                   | 2                         | 21                        | 2.5                         | <0.2                        | 792                       | <1                        | 0.3                         | 2                         | 3.23                         | 24                        | <0.5                        | 0.1                         | 8.7                        | <1                       | 8.2                        |
| ION-SRM18                  |                                   | 3                         | 15                        | 3.1                         | 0.2                         | 1070                      | <1                        | 0.5                         | 2                         | 3.72                         | 23                        | <0.5                        | 0.1                         | 10.5                       | <1                       | 9.5                        |
| ION-SRM18                  |                                   | 3                         | 15                        | 3.1                         | 0.2                         | 1070                      | <1                        | 0.5                         | 2                         | 3.72                         | 23                        | <0.5                        | 0.1                         | 10.5                       | <1                       | 9.5                        |
| Target Range - Lower Bound |                                   | 2                         | 13                        | 2.5                         | <0.2                        | 1010                      | <1                        | 0.3                         | <1                        | 3.11                         | 24                        | <0.5                        | <0.1                        | 8.7                        | <1                       | 8.1                        |
| Upper Bound                |                                   | 4                         | 21                        | 3.3                         | 0.4                         | 1235                      | 2                         | 0.5                         | 2                         | 3.85                         | 41                        | 1.0                         | 0.2                         | 10.8                       | 2                        | 10.1                       |
| BLANKS                     |                                   |                           |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |
| BLANK                      |                                   | <1                        | 2                         | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | 2                         | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       |
| BLANK                      |                                   | <1                        | 2                         | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | <1                        | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | 0.1                        |
| BLANK                      |                                   | <1                        | 2                         | <0.1                        | <0.2                        | 1                         | <1                        | <0.1                        | <1                        | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | 0.1                        |
| BLANK                      |                                   | <1                        | 2                         | 0.1                         | 0.2                         | 1                         | <1                        | <0.1                        | <1                        | <0.02                        | 9                         | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       |
| BLANK                      |                                   | <1                        | <2                        | <0.1                        | 0.2                         | 1                         | <1                        | <0.1                        | <1                        | 0.02                         | <5                        | <0.5                        | <0.1                        | 0.1                        | <1                       | 0.2                        |
| BLANK                      |                                   | <1                        | 3                         | <0.1                        | 0.2                         | 1                         | <1                        | <0.1                        | <1                        | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       |
| Target Range - Lower Bound |                                   | <1                        | <2                        | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | <1                        | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       |
| Upper Bound                |                                   | 2                         | 4                         | 0.2                         | 0.4                         | 2                         | 2                         | 0.2                         | 2                         | 0.04                         | 10                        | 1.0                         | 0.2                         | 0.2                        | 2                        | 0.2                        |
| DUPLICATES                 |                                   |                           |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |
| REX1846                    |                                   | 172                       | 34                        | 127.5                       | 1.3                         | 122                       | <1                        | 20.8                        | <1                        | 300                          | 898                       | 0.9                         | 5.8                         | 48.9                       | 1                        | 346                        |
| DUP                        |                                   | 173                       | 34                        | 128.0                       | 1.3                         | 123                       | <1                        | 20.9                        | <1                        | 301                          | 902                       | 0.9                         | 5.8                         | 49.1                       | 1                        | 347                        |
| Target Range - Lower Bound |                                   | 163                       | 30                        | 121.5                       | 1.0                         | 115                       | <1                        | 19.7                        | <1                        | 285                          | 850                       | <0.5                        | 5.4                         | 46.5                       | <1                       | 329                        |
| Upper Bound                |                                   | 182                       | 38                        | 134.0                       | 1.6                         | 130                       | 2                         | 22.0                        | 2                         | 316                          | 950                       | 1.0                         | 6.2                         | 51.6                       | 2                        | 364                        |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Yb<br>ppb<br>0.1 | ME-MS23<br>Zn<br>ppb<br>10 | ME-MS23<br>Zr<br>ppb<br>0.1 |
|----------------------------|-----------------------------------|-----------------------------|----------------------------|-----------------------------|
| STANDARDS                  |                                   |                             |                            |                             |
| ION-SRM18                  |                                   | 0.5                         | 570                        | 5.3                         |
| ION-SRM18                  |                                   | 0.5                         | 570                        | 5.2                         |
| ION-SRM18                  |                                   | 0.4                         | 520                        | 6.2                         |
| ION-SRM18                  |                                   | 0.4                         | 580                        | 5.1                         |
| ION-SRM18                  |                                   | 0.4                         | 630                        | 6.7                         |
| ION-SRM18                  |                                   | 0.4                         | 490                        | 5.2                         |
| ION-SRM18                  |                                   | 0.4                         | 540                        | 7.1                         |
| ION-SRM18                  |                                   | 0.4                         | 550                        | 4.8                         |
| ION-SRM18                  |                                   | 0.5                         | 650                        | 9.5                         |
| ION-SRM18                  |                                   | 0.3                         | 540                        | 5.1                         |
| ION-SRM18                  |                                   | 0.3                         | 530                        | 5.2                         |
| ION-SRM18                  |                                   | 0.3                         | 530                        | 5.2                         |
| Target Range - Lower Bound |                                   | 0.2                         | 530                        | 4.3                         |
| Upper Bound                |                                   | 0.4                         | 670                        | 5.5                         |
| BLANKS                     |                                   |                             |                            |                             |
| BLANK                      |                                   | <0.1                        | 10                         | <0.1                        |
| BLANK                      |                                   | <0.1                        | 10                         | <0.1                        |
| BLANK                      |                                   | <0.1                        | 10                         | <0.1                        |
| BLANK                      |                                   | <0.1                        | <10                        | <0.1                        |
| BLANK                      |                                   | 0.1                         | 10                         | <0.1                        |
| BLANK                      |                                   | <0.1                        | <10                        | <0.1                        |
| Target Range - Lower Bound |                                   | <0.1                        | <10                        | <0.1                        |
| Upper Bound                |                                   | 0.2                         | 20                         | 0.2                         |
| DUPLICATES                 |                                   |                             |                            |                             |
| REX1846                    |                                   | 36.7                        | 130                        | 74.0                        |
| DUP                        |                                   | 36.9                        | 130                        | 74.3                        |
| Target Range - Lower Bound |                                   | 34.9                        | 110                        | 70.3                        |
| Upper Bound                |                                   | 38.7                        | 150                        | 78.0                        |



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**QC CERTIFICATE OF ANALYSIS PH10173275**

| Method<br>Analyte<br>Units<br>LOR | pH-MS23<br>Final pH<br>Unity<br>0.1 | ME-MS23<br>Ag<br>ppb<br>0.1 | ME-MS23<br>As<br>ppb<br>2 | ME-MS23<br>Au<br>ppb<br>0.02 | ME-MS23<br>Ba<br>ppb<br>10 | ME-MS23<br>Be<br>ppb<br>0.2 | ME-MS23<br>Bi<br>ppb<br>3 | ME-MS23<br>Br<br>ppm<br>0.05 | ME-MS23<br>Ca<br>ppm<br>0.2 | ME-MS23<br>Cd<br>ppb<br>1 | ME-MS23<br>Ce<br>ppb<br>0.1 | ME-MS23<br>Co<br>ppb<br>0.3 | ME-MS23<br>Cr<br>ppb<br>1 | ME-MS23<br>Cs<br>ppb<br>0.1 | ME-MS23<br>Cu<br>ppb<br>1 |
|-----------------------------------|-------------------------------------|-----------------------------|---------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| <b>Sample Description</b>         |                                     |                             |                           |                              |                            |                             |                           |                              |                             |                           |                             |                             |                           |                             |                           |
|                                   | <b>DUPLICATES</b>                   |                             |                           |                              |                            |                             |                           |                              |                             |                           |                             |                             |                           |                             |                           |
| REX1856                           | 8.3                                 | 7.6                         | 11                        | 0.05                         | 1520                       | 2.5                         | <3                        | 0.12                         | 129.0                       | 1                         | 397                         | 249                         | 13                        | 1.4                         | 7360                      |
| DUP                               | 8.3                                 | 8.1                         | 9                         | 0.05                         | 1460                       | 2.5                         | <3                        | 0.12                         | 130.5                       | 1                         | 412                         | 237                         | 12                        | 1.3                         | 7600                      |
| Target Range - Lower Bound        | 7.8                                 | 7.4                         | 8                         | 0.03                         | 1410                       | 2.2                         | <3                        | 0.06                         | 123.0                       | <1                        | 384                         | 231                         | 11                        | 1.2                         | 7110                      |
| Upper Bound                       | 8.8                                 | 8.3                         | 13                        | 0.07                         | 1570                       | 2.8                         | 6                         | 0.18                         | 136.5                       | 2                         | 425                         | 255                         | 14                        | 1.5                         | 7860                      |
| REX1866                           | 8.1                                 | 3.1                         | 9                         | 0.11                         | 730                        | 5.2                         | <3                        | 0.17                         | 89.3                        | 3                         | 1415                        | 709                         | 21                        | 9.2                         | 3110                      |
| DUP                               | 8.1                                 | 3.1                         | 8                         | 0.11                         | 790                        | 4.9                         | <3                        | 0.16                         | 91.8                        | 3                         | 1475                        | 721                         | 16                        | 8.3                         | 3230                      |
| Target Range - Lower Bound        | 7.6                                 | 2.8                         | 6                         | 0.08                         | 710                        | 4.6                         | <3                        | 0.11                         | 85.8                        | 2                         | 1375                        | 679                         | 17                        | 8.2                         | 3010                      |
| Upper Bound                       | 8.6                                 | 3.4                         | 11                        | 0.14                         | 810                        | 5.5                         | 6                         | 0.22                         | 95.3                        | 4                         | 1515                        | 751                         | 20                        | 9.3                         | 3330                      |
| REX1442                           | 7.9                                 | 1.4                         | <2                        | 0.04                         | 250                        | 3.1                         | <3                        | 0.26                         | 36.3                        | 1                         | 184.5                       | 22.3                        | 65                        | 13.0                        | 829                       |
| DUP                               | 7.9                                 | 1.4                         | <2                        | 0.04                         | 250                        | 3.0                         | <3                        | 0.25                         | 35.6                        | 1                         | 180.5                       | 21.9                        | 64                        | 12.8                        | 813                       |
| Target Range - Lower Bound        | 7.4                                 | 1.2                         | <2                        | <0.02                        | 230                        | 2.7                         | <3                        | 0.19                         | 34.0                        | <1                        | 173.5                       | 20.7                        | 60                        | 12.2                        | 779                       |
| Upper Bound                       | 8.4                                 | 1.6                         | 4                         | 0.06                         | 270                        | 3.4                         | 6                         | 0.32                         | 37.9                        | 2                         | 191.5                       | 23.5                        | 69                        | 13.6                        | 863                       |
| REX1460                           | 7.7                                 | 1.2                         | 19                        | 0.19                         | 2100                       | 0.9                         | <3                        | 0.22                         | 32.8                        | 1                         | 1120                        | 200.0                       | 6                         | 8.2                         | 3470                      |
| DUP                               | 7.7                                 | 1.3                         | 10                        | 0.20                         | 2150                       | 0.8                         | <3                        | 0.18                         | 33.3                        | 1                         | 1065                        | 218                         | 4                         | 7.8                         | 3360                      |
| Target Range - Lower Bound        | 7.2                                 | 1.1                         | 12                        | 0.17                         | 2010                       | 0.6                         | <3                        | 0.14                         | 31.2                        | <1                        | 1040                        | 198.5                       | 4                         | 7.5                         | 3240                      |
| Upper Bound                       | 8.2                                 | 1.4                         | 17                        | 0.22                         | 2240                       | 1.1                         | 6                         | 0.26                         | 34.9                        | 2                         | 1145                        | 220                         | 6                         | 8.5                         | 3590                      |
| REX1470                           | 8.3                                 | 1.3                         | 12                        | 0.06                         | 2260                       | <0.2                        | <3                        | 0.18                         | 205                         | 1                         | 162.0                       | 657                         | 1                         | 3.7                         | 957                       |
| DUP                               | 8.3                                 | 1.1                         | <2                        | 0.07                         | 2250                       | <0.2                        | <3                        | 0.13                         | 196.0                       | 1                         | 165.5                       | 658                         | 1                         | 3.5                         | 853                       |
| Target Range - Lower Bound        | 7.8                                 | 1.0                         | 5                         | 0.04                         | 2130                       | <0.2                        | <3                        | 0.10                         | 190.5                       | <1                        | 155.5                       | 624                         | <1                        | 3.3                         | 859                       |
| Upper Bound                       | 8.8                                 | 1.4                         | 9                         | 0.09                         | 2380                       | 0.4                         | 6                         | 0.21                         | 211                         | 2                         | 172.0                       | 691                         | 2                         | 3.9                         | 951                       |
| REX1480                           | 8.3                                 | 0.7                         | 3                         | 0.06                         | 680                        | 0.7                         | <3                        | 0.09                         | 113.0                       | 1                         | 556                         | 213                         | 9                         | 4.5                         | 1220                      |
| DUP                               | 8.3                                 | 0.6                         | 2                         | 0.03                         | 630                        | 0.5                         | <3                        | 0.07                         | 93.7                        | 1                         | 489                         | 210                         | 7                         | 4.2                         | 1030                      |
| Target Range - Lower Bound        | 7.8                                 | 0.5                         | <2                        | <0.02                        | 610                        | 0.4                         | <3                        | <0.05                        | 98.0                        | <1                        | 496                         | 201                         | 7                         | 4.0                         | 1070                      |
| Upper Bound                       | 8.8                                 | 0.8                         | 4                         | 0.07                         | 700                        | 0.8                         | 6                         | 0.10                         | 108.5                       | 2                         | 549                         | 222                         | 9                         | 4.7                         | 1180                      |
| REX1504                           | 8.3                                 | 7.8                         | 5                         | 0.05                         | 2790                       | 1.2                         | <3                        | 0.21                         | 147.5                       | 23                        | 639                         | 285                         | 3                         | 5.9                         | 3720                      |
| DUP                               | 8.3                                 | 8.3                         | 10                        | 0.05                         | 2860                       | 1.1                         | <3                        | 0.21                         | 156.0                       | 25                        | 616                         | 293                         | 2                         | 6.2                         | 3920                      |
| Target Range - Lower Bound        | 7.8                                 | 7.5                         | 5                         | 0.03                         | 2670                       | 0.9                         | <3                        | 0.15                         | 144.0                       | 22                        | 596                         | 274                         | <1                        | 5.6                         | 3630                      |
| Upper Bound                       | 8.8                                 | 8.6                         | 10                        | 0.07                         | 2980                       | 1.4                         | 6                         | 0.27                         | 159.5                       | 26                        | 659                         | 304                         | 4                         | 6.5                         | 4010                      |
| REX1514                           | 8.3                                 | 1.5                         | 7                         | 0.21                         | 710                        | 0.9                         | <3                        | 0.18                         | 118.5                       | 2                         | 440                         | 413                         | 8                         | 6.5                         | 3300                      |
| DUP                               | 8.3                                 | 1.6                         | 10                        | 0.20                         | 760                        | 0.7                         | <3                        | 0.17                         | 126.5                       | 2                         | 443                         | 412                         | 8                         | 7.0                         | 3470                      |
| Target Range - Lower Bound        | 7.8                                 | 1.4                         | 6                         | 0.17                         | 690                        | 0.6                         | <3                        | 0.12                         | 116.0                       | <1                        | 419                         | 392                         | 7                         | 6.3                         | 3210                      |
| Upper Bound                       | 8.8                                 | 1.7                         | 11                        | 0.24                         | 780                        | 1.0                         | 6                         | 0.23                         | 129.0                       | 3                         | 464                         | 433                         | 9                         | 7.2                         | 3560                      |



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| Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Dy<br>ppb<br>0.1 | ME-MS23<br>Er<br>ppb<br>0.1 | ME-MS23<br>Eu<br>ppb<br>0.1 | ME-MS23<br>Fe<br>ppb<br>0.1 | ME-MS23<br>Ga<br>ppb<br>0.5 | ME-MS23<br>Gd<br>ppb<br>0.1 | ME-MS23<br>Ge<br>ppb<br>0.1 | ME-MS23<br>Hf<br>ppm<br>0.5 | ME-MS23<br>Hg<br>ppb<br>0.1 | ME-MS23<br>Ho<br>ppb<br>0.1 | ME-MS23<br>I<br>ppm<br>0.01 | ME-MS23<br>In<br>ppb<br>0.1 | ME-MS23<br>La<br>ppb<br>0.1 | ME-MS23<br>Li<br>ppb<br>0.2 | ME-MS23<br>Lu<br>ppb<br>0.1 |
|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>Sample Description</b>         |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |
|                                   | <b>DUPLICATES</b>           |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |
| REX1856                           | 59.6                        | 30.0                        | 19.6                        | 9.0                         | 47.9                        | 81.0                        | 1.1                         | 2.1                         | 0.5                         | 15.2                        | 0.11                        | <0.1                        | 86.7                        | 1.0                         | 2.2                         |
| DUP                               | 62.4                        | 30.8                        | 20.7                        | 8.5                         | 45.1                        | 86.4                        | 1.1                         | 2.0                         | 0.5                         | 15.9                        | 0.11                        | <0.1                        | 90.7                        | 0.9                         | 2.1                         |
| Target Range - Lower Bound        | 57.9                        | 28.8                        | 19.0                        | 8.2                         | 43.7                        | 79.4                        | 0.9                         | 1.4                         | 0.4                         | 14.7                        | 0.09                        | <0.1                        | 84.2                        | 0.7                         | 1.9                         |
| Upper Bound                       | 64.2                        | 32.0                        | 21.3                        | 9.3                         | 49.3                        | 88.0                        | 1.3                         | 2.7                         | 0.6                         | 16.4                        | 0.13                        | 0.2                         | 93.2                        | 1.2                         | 2.4                         |
| REX1866                           | 178.0                       | 97.4                        | 72.7                        | 13.1                        | 23.5                        | 316                         | 5.6                         | 4.6                         | 0.5                         | 46.0                        | 0.28                        | <0.1                        | 600                         | 1.6                         | 8.9                         |
| DUP                               | 179.0                       | 96.9                        | 73.0                        | 11.1                        | 22.5                        | 322                         | 5.2                         | 4.4                         | 0.6                         | 45.9                        | 0.26                        | <0.1                        | 620                         | 1.1                         | 8.7                         |
| Target Range - Lower Bound        | 169.5                       | 92.2                        | 69.1                        | 11.4                        | 21.4                        | 303                         | 5.0                         | 3.8                         | 0.4                         | 43.6                        | 0.25                        | <0.1                        | 579                         | 1.1                         | 8.3                         |
| Upper Bound                       | 187.5                       | 102.0                       | 76.6                        | 12.8                        | 24.7                        | 335                         | 5.8                         | 5.2                         | 0.7                         | 48.3                        | 0.29                        | 0.2                         | 641                         | 1.6                         | 9.3                         |
| REX1442                           | 17.3                        | 10.4                        | 5.7                         | 46.4                        | 25.7                        | 29.7                        | 0.9                         | 3.4                         | 0.5                         | 4.2                         | 0.28                        | 0.3                         | 66.7                        | 1.3                         | 0.6                         |
| DUP                               | 16.9                        | 10.2                        | 5.6                         | 45.5                        | 25.2                        | 29.1                        | 0.9                         | 3.3                         | 0.5                         | 4.1                         | 0.27                        | 0.3                         | 65.5                        | 1.3                         | 0.6                         |
| Target Range - Lower Bound        | 16.1                        | 9.7                         | 5.3                         | 43.6                        | 23.7                        | 27.8                        | 0.8                         | 2.7                         | 0.4                         | 3.8                         | 0.25                        | 0.2                         | 62.7                        | 1.0                         | 0.5                         |
| Upper Bound                       | 18.1                        | 10.9                        | 6.0                         | 48.3                        | 27.2                        | 31.0                        | 1.0                         | 4.0                         | 0.6                         | 4.5                         | 0.30                        | 0.4                         | 69.5                        | 1.6                         | 0.7                         |
| REX1460                           | 260                         | 134.0                       | 143.5                       | 21.8                        | 67.5                        | 550                         | 15.9                        | 2.7                         | 0.3                         | 52.8                        | 0.21                        | 0.1                         | 794                         | 2.9                         | 12.4                        |
| DUP                               | 261                         | 142.0                       | 142.0                       | 15.0                        | 68.1                        | 545                         | 15.7                        | 2.6                         | 0.2                         | 55.3                        | 0.21                        | 0.1                         | 735                         | 2.9                         | 13.2                        |
| Target Range - Lower Bound        | 247                         | 131.0                       | 135.5                       | 17.4                        | 63.9                        | 520                         | 14.9                        | 2.0                         | <0.1                        | 51.2                        | 0.19                        | <0.1                        | 726                         | 2.6                         | 12.1                        |
| Upper Bound                       | 274                         | 145.0                       | 150.0                       | 19.4                        | 71.7                        | 575                         | 16.7                        | 3.3                         | 0.4                         | 56.9                        | 0.23                        | 0.2                         | 803                         | 3.2                         | 13.5                        |
| REX1470                           | 45.9                        | 23.6                        | 21.5                        | 6.7                         | 69.8                        | 84.0                        | 2.0                         | 0.9                         | 0.2                         | 9.7                         | 0.16                        | <0.1                        | 98.1                        | 2.1                         | 1.9                         |
| DUP                               | 46.3                        | 24.0                        | 21.5                        | 7.3                         | 67.3                        | 84.4                        | 2.0                         | 1.0                         | 0.2                         | 9.9                         | 0.16                        | <0.1                        | 98.0                        | 2.3                         | 1.9                         |
| Target Range - Lower Bound        | 43.7                        | 22.5                        | 20.3                        | 6.6                         | 64.6                        | 79.9                        | 1.8                         | <0.5                        | <0.1                        | 9.2                         | 0.14                        | <0.1                        | 93.0                        | 1.9                         | 1.7                         |
| Upper Bound                       | 48.5                        | 25.1                        | 22.7                        | 7.5                         | 72.5                        | 88.5                        | 2.2                         | 1.0                         | 0.3                         | 10.4                        | 0.18                        | 0.2                         | 103.0                       | 2.5                         | 2.1                         |
| REX1480                           | 31.6                        | 16.5                        | 16.0                        | 6.3                         | 20.9                        | 66.5                        | 2.1                         | 1.4                         | 0.4                         | 6.4                         | 0.16                        | <0.1                        | 218                         | 0.5                         | 1.3                         |
| DUP                               | 28.3                        | 14.9                        | 14.1                        | 4.9                         | 19.0                        | 58.5                        | 1.9                         | 1.2                         | 0.5                         | 5.8                         | 0.14                        | <0.1                        | 189.5                       | <0.2                        | 1.2                         |
| Target Range - Lower Bound        | 28.4                        | 14.8                        | 14.2                        | 5.2                         | 18.5                        | 59.3                        | 1.8                         | 0.7                         | 0.3                         | 5.7                         | 0.13                        | <0.1                        | 193.5                       | <0.2                        | 1.1                         |
| Upper Bound                       | 31.5                        | 16.6                        | 15.9                        | 6.0                         | 21.4                        | 65.7                        | 2.2                         | 1.9                         | 0.6                         | 6.5                         | 0.17                        | 0.2                         | 214                         | 0.4                         | 1.4                         |
| REX1504                           | 212                         | 95.9                        | 89.7                        | 8.3                         | 87.0                        | 335                         | 9.2                         | 3.2                         | 0.3                         | 38.5                        | 0.11                        | <0.1                        | 487                         | 1.9                         | 8.1                         |
| DUP                               | 220                         | 96.8                        | 95.2                        | 8.0                         | 93.9                        | 357                         | 9.7                         | 3.1                         | 0.3                         | 39.7                        | 0.11                        | <0.1                        | 483                         | 2.3                         | 7.6                         |
| Target Range - Lower Bound        | 205                         | 91.4                        | 87.7                        | 7.6                         | 85.4                        | 329                         | 8.9                         | 2.5                         | 0.2                         | 37.0                        | 0.09                        | <0.1                        | 461                         | 1.8                         | 7.4                         |
| Upper Bound                       | 227                         | 101.5                       | 97.2                        | 8.7                         | 95.5                        | 363                         | 10.0                        | 3.8                         | 0.4                         | 41.2                        | 0.13                        | 0.2                         | 509                         | 2.4                         | 8.3                         |
| REX1514                           | 42.7                        | 20.2                        | 16.8                        | 7.1                         | 23.0                        | 65.5                        | 2.2                         | 1.3                         | 0.6                         | 7.8                         | 0.17                        | <0.1                        | 164.0                       | 0.4                         | 1.6                         |
| DUP                               | 43.4                        | 20.4                        | 16.7                        | 8.4                         | 26.2                        | 66.2                        | 2.2                         | 1.5                         | 0.4                         | 8.0                         | 0.17                        | <0.1                        | 165.5                       | 1.0                         | 1.6                         |
| Target Range - Lower Bound        | 40.8                        | 19.2                        | 15.8                        | 7.3                         | 22.9                        | 62.5                        | 2.0                         | 0.8                         | 0.4                         | 7.4                         | 0.15                        | <0.1                        | 156.5                       | 0.5                         | 1.4                         |
| Upper Bound                       | 45.3                        | 21.4                        | 17.7                        | 8.2                         | 26.3                        | 69.2                        | 2.4                         | 2.0                         | 0.6                         | 8.4                         | 0.19                        | 0.2                         | 173.0                       | 0.9                         | 1.8                         |





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# QC CERTIFICATE OF ANALYSIS PH10173275

| Method                     | ME-MS23    | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |
|----------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Analyte                    | Mg         | Mn      | Mo      | Nb      | Nd      | Ni      | Pb      | Pb 206  | Pb 207  | Pb 208  | Pd      | Pr      | Rb      | Re      | Sb      |
| Units                      | ppm        | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     |
| LOR                        | 0.01       | 0.01    | 0.5     | 0.1     | 0.1     | 1       | 1       | 1       | 1       | 1       | 0.1     | 0.1     | 0.1     | 0.1     | 0.5     |
|                            | DUPLICATES |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| REX1856                    | 39.7       | 8.27    | 3.7     | 0.2     | 267     | 98      | 46      | 11      | 9       | 24      | 2.7     | 56.5    | 318     | <0.1    | 0.6     |
| DUP                        | 38.4       | 8.33    | 3.6     | 0.2     | 282     | 102     | 45      | 11      | 9       | 24      | 2.6     | 58.9    | 325     | <0.1    | 0.6     |
| Target Range - Lower Bound | 37.1       | 7.88    | 3.0     | <0.1    | 261     | 94      | 42      | 9       | 8       | 22      | 2.4     | 54.7    | 305     | <0.1    | <0.5    |
| Upper Bound                | 41.0       | 8.73    | 4.3     | 0.3     | 288     | 106     | 49      | 13      | 10      | 26      | 2.9     | 60.7    | 338     | 0.2     | 1.0     |
| REX1866                    | 38.0       | 49.1    | 8.1     | 0.6     | 1275    | 672     | 23      | 5       | 4       | 12      | 7.3     | 292     | 423     | <0.1    | 0.6     |
| DUP                        | 40.2       | 52.0    | 8.0     | 0.4     | 1300    | 667     | 22      | 5       | 4       | 12      | 6.4     | 300     | 392     | <0.1    | 0.5     |
| Target Range - Lower Bound | 37.1       | 48.0    | 7.1     | 0.4     | 1225    | 635     | 20      | 4       | 3       | 10      | 6.4     | 281     | 387     | <0.1    | <0.5    |
| Upper Bound                | 41.1       | 53.1    | 9.0     | 0.6     | 1350    | 704     | 25      | 6       | 5       | 14      | 7.3     | 311     | 428     | 0.2     | 1.0     |
| REX1442                    | 4.78       | 2.03    | 3.7     | 1.2     | 128.0   | 60      | 108     | 27      | 21      | 57      | 3.7     | 28.5    | 210     | <0.1    | <0.5    |
| DUP                        | 4.69       | 1.99    | 3.6     | 1.2     | 125.5   | 58      | 106     | 27      | 20      | 56      | 3.6     | 28.0    | 206     | <0.1    | <0.5    |
| Target Range - Lower Bound | 4.49       | 1.90    | 3.0     | 1.0     | 120.5   | 55      | 101     | 25      | 18      | 53      | 3.4     | 26.7    | 197.5   | <0.1    | <0.5    |
| Upper Bound                | 4.98       | 2.12    | 4.3     | 1.4     | 133.0   | 63      | 113     | 29      | 23      | 60      | 3.9     | 29.8    | 219     | 0.2     | 1.0     |
| REX1460                    | 92.0       | 6.43    | 1.7     | 0.4     | 2330    | 233     | 154     | 39      | 32      | 81      | 8.0     | 455     | 466     | <0.1    | <0.5    |
| DUP                        | 97.4       | 6.67    | 1.3     | 0.3     | 2210    | 239     | 161     | 41      | 33      | 85      | 8.3     | 426     | 458     | <0.1    | <0.5    |
| Target Range - Lower Bound | 90.0       | 6.21    | 0.9     | 0.2     | 2160    | 223     | 149     | 37      | 30      | 78      | 7.6     | 418     | 439     | <0.1    | <0.5    |
| Upper Bound                | 99.4       | 6.89    | 2.1     | 0.5     | 2380    | 249     | 166     | 43      | 35      | 88      | 8.7     | 463     | 485     | 0.2     | 1.0     |
| REX1470                    | 74.0       | 5.31    | 2.5     | 0.1     | 302     | 336     | 10      | 2       | 2       | 5       | 2.6     | 52.8    | 467     | <0.1    | <0.5    |
| DUP                        | 71.1       | 5.59    | 2.4     | 0.1     | 306     | 312     | 10      | 3       | 2       | 6       | 2.7     | 53.5    | 464     | <0.1    | <0.5    |
| Target Range - Lower Bound | 68.9       | 5.17    | 1.8     | <0.1    | 289     | 307     | 9       | <1      | <1      | 4       | 2.4     | 50.4    | 442     | <0.1    | <0.5    |
| Upper Bound                | 76.2       | 5.73    | 3.1     | 0.2     | 319     | 341     | 12      | 4       | 3       | 7       | 2.9     | 55.9    | 489     | 0.2     | 1.0     |
| REX1480                    | 10.95      | 12.30   | 5.3     | 0.2     | 344     | 73      | 26      | 6       | 5       | 14      | 3.5     | 81.0    | 287     | <0.1    | <0.5    |
| DUP                        | 9.54       | 12.05   | 4.7     | 0.1     | 299     | 64      | 26      | 7       | 5       | 14      | 2.7     | 70.7    | 262     | <0.1    | <0.5    |
| Target Range - Lower Bound | 9.72       | 11.55   | 4.3     | <0.1    | 305     | 64      | 24      | 5       | 4       | 12      | 2.8     | 72.0    | 261     | <0.1    | <0.5    |
| Upper Bound                | 10.75      | 12.80   | 5.8     | 0.2     | 338     | 73      | 28      | 8       | 6       | 16      | 3.4     | 79.7    | 288     | 0.2     | 1.0     |
| REX1504                    | 33.9       | 5.02    | 2.8     | 0.2     | 1410    | 514     | 121     | 29      | 26      | 66      | 8.2     | 270     | 592     | <0.1    | <0.5    |
| DUP                        | 39.4       | 5.11    | 2.8     | 0.2     | 1445    | 548     | 103     | 24      | 22      | 57      | 8.5     | 273     | 617     | <0.1    | <0.5    |
| Target Range - Lower Bound | 34.8       | 4.80    | 2.2     | <0.1    | 1355    | 503     | 105     | 24      | 22      | 57      | 7.8     | 258     | 574     | <0.1    | <0.5    |
| Upper Bound                | 38.5       | 5.33    | 3.4     | 0.3     | 1500    | 559     | 119     | 29      | 26      | 66      | 8.9     | 285     | 635     | 0.2     | 1.0     |
| REX1514                    | 20.6       | 20.2    | 6.1     | 0.2     | 306     | 178     | 34      | 8       | 7       | 19      | 3.2     | 68.4    | 475     | <0.1    | <0.5    |
| DUP                        | 23.5       | 20.1    | 6.1     | 0.2     | 308     | 189     | 31      | 7       | 6       | 17      | 3.6     | 68.7    | 491     | <0.1    | <0.5    |
| Target Range - Lower Bound | 20.9       | 19.15   | 5.3     | <0.1    | 292     | 173     | 30      | 6       | 5       | 16      | 3.1     | 65.0    | 459     | <0.1    | <0.5    |
| Upper Bound                | 23.2       | 21.2    | 6.9     | 0.3     | 322     | 194     | 35      | 9       | 8       | 20      | 3.7     | 72.1    | 507     | 0.2     | 1.0     |



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**QC CERTIFICATE OF ANALYSIS PH10173275**

| Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Sc<br>ppb<br>1 | ME-MS23<br>Se<br>ppb<br>2 | ME-MS23<br>Sm<br>ppb<br>0.1 | ME-MS23<br>Sn<br>ppb<br>0.2 | ME-MS23<br>Sr<br>ppb<br>1 | ME-MS23<br>Ta<br>ppb<br>1 | ME-MS23<br>Tb<br>ppb<br>0.1 | ME-MS23<br>Te<br>ppb<br>1 | ME-MS23<br>Th<br>ppb<br>0.02 | ME-MS23<br>Ti<br>ppb<br>5 | ME-MS23<br>Tl<br>ppb<br>0.5 | ME-MS23<br>Tm<br>ppb<br>0.1 | ME-MS23<br>U<br>ppb<br>0.1 | ME-MS23<br>W<br>ppb<br>1 | ME-MS23<br>Y<br>ppb<br>0.1 |
|-----------------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|
| Sample Description                |                           |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |
|                                   | <b>DUPLICATES</b>         |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |
| REX1856                           | 21                        | 18                        | 70.9                        | <0.2                        | 390                       | <1                        | 13.0                        | <1                        | 48.4                         | 152                       | 0.8                         | 3.2                         | 21.2                       | <1                       | 239                        |
| DUP                               | 19                        | 16                        | 74.5                        | <0.2                        | 384                       | <1                        | 13.8                        | <1                        | 47.6                         | 142                       | 0.7                         | 3.2                         | 21.8                       | <1                       | 243                        |
| Target Range - Lower Bound        | 18                        | 14                        | 69.0                        | <0.2                        | 367                       | <1                        | 12.6                        | <1                        | 45.6                         | 135                       | <0.5                        | 2.9                         | 20.3                       | <1                       | 229                        |
| Upper Bound                       | 22                        | 20                        | 76.4                        | 0.4                         | 407                       | 2                         | 14.2                        | 2                         | 50.4                         | 159                       | 1.0                         | 3.5                         | 22.7                       | 2                        | 253                        |
| REX1866                           | 50                        | 40                        | 326                         | 0.2                         | 243                       | <1                        | 43.2                        | <1                        | 166.0                        | 261                       | 1.7                         | 10.9                        | 44.3                       | 1                        | 620                        |
| DUP                               | 43                        | 45                        | 328                         | <0.2                        | 242                       | <1                        | 43.7                        | <1                        | 159.0                        | 177                       | 1.5                         | 10.6                        | 43.9                       | 1                        | 586                        |
| Target Range - Lower Bound        | 43                        | 38                        | 311                         | <0.2                        | 229                       | <1                        | 41.2                        | <1                        | 154.5                        | 203                       | 1.0                         | 10.1                        | 41.8                       | <1                       | 573                        |
| Upper Bound                       | 50                        | 47                        | 343                         | 0.4                         | 256                       | 2                         | 45.7                        | 2                         | 170.5                        | 235                       | 2.2                         | 11.4                        | 46.4                       | 2                        | 633                        |
| REX1442                           | 59                        | 25                        | 27.0                        | 0.8                         | 133                       | <1                        | 4.6                         | <1                        | 81.9                         | 905                       | <0.5                        | 0.9                         | 15.5                       | <1                       | 73.9                       |
| DUP                               | 58                        | 25                        | 26.5                        | 0.8                         | 130                       | <1                        | 4.5                         | <1                        | 80.3                         | 887                       | <0.5                        | 0.9                         | 15.2                       | <1                       | 72.4                       |
| Target Range - Lower Bound        | 55                        | 22                        | 25.3                        | 0.6                         | 124                       | <1                        | 4.2                         | <1                        | 77.0                         | 846                       | <0.5                        | 0.8                         | 14.5                       | <1                       | 69.4                       |
| Upper Bound                       | 62                        | 28                        | 28.2                        | 1.0                         | 139                       | 2                         | 4.9                         | 2                         | 85.2                         | 946                       | 1.0                         | 1.0                         | 16.2                       | 2                        | 76.9                       |
| REX1460                           | 195                       | 132                       | 562                         | 0.5                         | 261                       | 1                         | 72.6                        | 1                         | 67.4                         | 305                       | 0.5                         | 13.6                        | 41.9                       | 1                        | 1075                       |
| DUP                               | 187                       | 112                       | 546                         | 0.3                         | 279                       | 1                         | 72.7                        | <1                        | 55.9                         | 218                       | 0.5                         | 14.7                        | 39.2                       | 1                        | 1125                       |
| Target Range - Lower Bound        | 180                       | 114                       | 526                         | <0.2                        | 256                       | <1                        | 68.9                        | <1                        | 58.5                         | 243                       | <0.5                        | 13.3                        | 38.4                       | <1                       | 1045                       |
| Upper Bound                       | 202                       | 130                       | 582                         | 0.6                         | 285                       | 2                         | 76.4                        | 2                         | 64.8                         | 280                       | 1.0                         | 15.0                        | 42.7                       | 2                        | 1155                       |
| REX1470                           | 33                        | 45                        | 73.3                        | <0.2                        | 931                       | <1                        | 11.8                        | 8                         | 11.95                        | 80                        | 0.6                         | 2.4                         | 14.6                       | <1                       | 265                        |
| DUP                               | 32                        | 45                        | 73.4                        | <0.2                        | 875                       | <1                        | 12.0                        | <1                        | 11.70                        | 145                       | 0.6                         | 2.4                         | 13.9                       | <1                       | 258                        |
| Target Range - Lower Bound        | 30                        | 41                        | 69.6                        | <0.2                        | 857                       | <1                        | 11.2                        | 3                         | 11.20                        | 102                       | <0.5                        | 2.2                         | 13.4                       | <1                       | 248                        |
| Upper Bound                       | 35                        | 49                        | 77.1                        | 0.4                         | 949                       | 2                         | 12.6                        | 6                         | 12.45                        | 123                       | 1.0                         | 2.6                         | 15.1                       | 2                        | 275                        |
| REX1480                           | 22                        | 20                        | 63.7                        | <0.2                        | 289                       | <1                        | 8.8                         | <1                        | 67.7                         | 114                       | 0.5                         | 1.7                         | 18.0                       | <1                       | 145.5                      |
| DUP                               | 20                        | 17                        | 56.0                        | 0.4                         | 244                       | <1                        | 7.8                         | <1                        | 59.8                         | 83                        | <0.5                        | 1.5                         | 15.7                       | <1                       | 128.5                      |
| Target Range - Lower Bound        | 19                        | 16                        | 56.8                        | <0.2                        | 252                       | <1                        | 7.8                         | <1                        | 60.5                         | 89                        | <0.5                        | 1.4                         | 15.9                       | <1                       | 130.0                      |
| Upper Bound                       | 23                        | 21                        | 62.9                        | 0.4                         | 281                       | 2                         | 8.8                         | 2                         | 67.0                         | 108                       | 1.0                         | 1.8                         | 17.8                       | 2                        | 144.0                      |
| REX1504                           | 70                        | 60                        | 364                         | <0.2                        | 320                       | <1                        | 47.7                        | <1                        | 56.1                         | 210                       | <0.5                        | 9.4                         | 36.5                       | 1                        | 849                        |
| DUP                               | 66                        | 86                        | 376                         | <0.2                        | 344                       | <1                        | 50.7                        | 3                         | 51.4                         | 239                       | 0.5                         | 9.4                         | 37.2                       | 1                        | 882                        |
| Target Range - Lower Bound        | 64                        | 67                        | 351                         | <0.2                        | 314                       | <1                        | 46.6                        | <1                        | 51.0                         | 208                       | <0.5                        | 8.8                         | 34.9                       | <1                       | 822                        |
| Upper Bound                       | 72                        | 79                        | 389                         | 0.4                         | 350                       | 2                         | 51.8                        | 3                         | 56.5                         | 241                       | 1.0                         | 10.0                        | 38.8                       | 2                        | 909                        |
| REX1514                           | 13                        | 26                        | 69.6                        | <0.2                        | 282                       | <1                        | 9.5                         | 1                         | 31.1                         | 124                       | 0.7                         | 2.1                         | 21.2                       | <1                       | 171.0                      |
| DUP                               | 14                        | 37                        | 68.4                        | <0.2                        | 317                       | <1                        | 9.5                         | 2                         | 30.7                         | 169                       | 0.7                         | 2.1                         | 22.3                       | <1                       | 175.0                      |
| Target Range - Lower Bound        | 12                        | 28                        | 65.5                        | <0.2                        | 284                       | <1                        | 8.9                         | <1                        | 29.3                         | 134                       | <0.5                        | 1.9                         | 20.6                       | <1                       | 164.5                      |
| Upper Bound                       | 15                        | 35                        | 72.6                        | 0.4                         | 315                       | 2                         | 10.1                        | 2                         | 32.5                         | 159                       | 1.0                         | 2.3                         | 22.9                       | 2                        | 182.0                      |



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**QC CERTIFICATE OF ANALYSIS PH10173275**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Yb<br>ppb<br>0.1 | ME-MS23<br>Zn<br>ppb<br>10 | ME-MS23<br>Zr<br>ppb<br>0.1 |
|----------------------------|-----------------------------------|-----------------------------|----------------------------|-----------------------------|
| DUPLICATES                 |                                   |                             |                            |                             |
| REX1856                    |                                   | 18.5                        | 140                        | 22.0                        |
| DUP                        |                                   | 18.6                        | 140                        | 20.9                        |
| Target Range - Lower Bound |                                   | 17.5                        | 120                        | 20.3                        |
| Upper Bound                |                                   | 19.6                        | 160                        | 22.6                        |
| REX1866                    |                                   | 69.4                        | 130                        | 54.3                        |
| DUP                        |                                   | 68.0                        | 140                        | 47.4                        |
| Target Range - Lower Bound |                                   | 65.2                        | 120                        | 48.2                        |
| Upper Bound                |                                   | 72.2                        | 150                        | 53.5                        |
| REX1442                    |                                   | 5.1                         | 50                         | 54.0                        |
| DUP                        |                                   | 5.0                         | 50                         | 53.0                        |
| Target Range - Lower Bound |                                   | 4.7                         | 40                         | 50.7                        |
| Upper Bound                |                                   | 5.4                         | 60                         | 56.3                        |
| REX1460                    |                                   | 82.1                        | 30                         | 14.0                        |
| DUP                        |                                   | 88.1                        | 40                         | 10.6                        |
| Target Range - Lower Bound |                                   | 80.7                        | 20                         | 11.6                        |
| Upper Bound                |                                   | 89.5                        | 50                         | 13.0                        |
| REX1470                    |                                   | 13.1                        | 70                         | 12.2                        |
| DUP                        |                                   | 13.8                        | 70                         | 11.7                        |
| Target Range - Lower Bound |                                   | 12.7                        | 60                         | 11.3                        |
| Upper Bound                |                                   | 14.2                        | 80                         | 12.6                        |
| REX1480                    |                                   | 9.6                         | 40                         | 23.7                        |
| DUP                        |                                   | 8.7                         | 40                         | 18.6                        |
| Target Range - Lower Bound |                                   | 8.6                         | 30                         | 20.0                        |
| Upper Bound                |                                   | 9.7                         | 50                         | 22.3                        |
| REX1504                    |                                   | 56.2                        | 180                        | 28.9                        |
| DUP                        |                                   | 52.8                        | 190                        | 27.4                        |
| Target Range - Lower Bound |                                   | 51.7                        | 170                        | 26.6                        |
| Upper Bound                |                                   | 57.3                        | 200                        | 29.7                        |
| REX1514                    |                                   | 11.6                        | 90                         | 20.8                        |
| DUP                        |                                   | 11.9                        | 90                         | 22.6                        |
| Target Range - Lower Bound |                                   | 11.1                        | 80                         | 20.5                        |
| Upper Bound                |                                   | 12.4                        | 100                        | 22.9                        |



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## QC CERTIFICATE OF ANALYSIS PH10173275

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | pH-MS23  | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |  |
|----------------------------|-----------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|                            |                                   | Final pH | Ag      | As      | Au      | Ba      | Be      | Bi      | Br      | Ca      | Cd      | Ce      | Co      | Cr      | Cs      | Cu      |  |
|                            |                                   | Unity    | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppm     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     |  |
|                            |                                   | 0.1      | 0.1     | 2       | 0.02    | 10      | 0.2     | 3       | 0.05    | 0.2     | 1       | 0.1     | 0.3     | 1       | 0.1     | 1       |  |
| DUPLICATES                 |                                   |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| REX1524                    |                                   | 8.3      | 6.8     | 6       | 0.08    | 2250    | 1.0     | <3      | 0.22    | 124.5   | 18      | 415     | 430     | 2       | 3.3     | 4310    |  |
| DUP                        |                                   | 8.3      | 6.9     | 12      | 0.14    | 2150    | 0.7     | <3      | 0.22    | 120.0   | 19      | 426     | 452     | 2       | 3.2     | 4190    |  |
| Target Range - Lower Bound |                                   | 7.8      | 6.4     | 7       | 0.08    | 2080    | 0.6     | <3      | 0.16    | 116.0   | 17      | 399     | 419     | <1      | 3.0     | 4040    |  |
| Upper Bound                |                                   | 8.8      | 7.3     | 11      | 0.14    | 2320    | 1.1     | 6       | 0.28    | 128.5   | 20      | 442     | 463     | 3       | 3.5     | 4460    |  |
| REX1548                    |                                   | 8.3      | 3.1     | 2       | 0.03    | 1680    | 0.5     | <3      | 0.10    | 102.5   | 3       | 244     | 235     | 4       | 2.4     | 1060    |  |
| DUP                        |                                   | 8.3      | 2.6     | 7       | 0.05    | 1580    | 0.4     | <3      | 0.10    | 78.8    | 2       | 227     | 224     | 4       | 2.3     | 850     |  |
| Target Range - Lower Bound |                                   | 7.8      | 2.6     | <2      | <0.02   | 1540    | <0.2    | <3      | <0.05   | 85.9    | <1      | 224     | 218     | 3       | 2.1     | 906     |  |
| Upper Bound                |                                   | 8.8      | 3.1     | 7       | 0.06    | 1720    | 0.7     | 6       | 0.16    | 95.4    | 4       | 247     | 241     | 5       | 2.6     | 1005    |  |
| REX1558                    |                                   | 8.3      | 2.7     | 3       | 0.12    | 1920    | 0.6     | <3      | 0.09    | 76.3    | 2       | 567     | 355     | 10      | 3.0     | 3760    |  |
| DUP                        |                                   | 8.3      | 2.6     | 7       | 0.19    | 1890    | 0.6     | <3      | 0.10    | 66.3    | 2       | 510     | 333     | 9       | 2.8     | 3370    |  |
| Target Range - Lower Bound |                                   | 7.8      | 2.4     | 3       | 0.13    | 1800    | 0.4     | <3      | <0.05   | 67.5    | <1      | 511     | 327     | 8       | 2.7     | 3390    |  |
| Upper Bound                |                                   | 8.8      | 2.9     | 7       | 0.18    | 2010    | 0.8     | 6       | 0.10    | 75.1    | 3       | 566     | 362     | 11      | 3.1     | 3740    |  |
| REX1568                    |                                   | 8.3      | 2.7     | 6       | 0.04    | 1330    | 0.2     | <3      | 0.09    | 97.4    | 1       | 167.0   | 139.0   | 2       | 2.8     | 1390    |  |
| DUP                        |                                   | 8.3      | 3.0     | 9       | 0.04    | 1490    | 0.4     | <3      | 0.11    | 111.0   | 1       | 176.0   | 159.0   | 3       | 3.1     | 1525    |  |
| Target Range - Lower Bound |                                   | 7.8      | 2.6     | 5       | <0.02   | 1330    | <0.2    | <3      | <0.05   | 98.8    | <1      | 163.0   | 141.5   | <1      | 2.7     | 1385    |  |
| Upper Bound                |                                   | 8.8      | 3.1     | 10      | 0.06    | 1490    | 0.4     | 6       | 0.16    | 109.5   | 2       | 180.0   | 157.0   | 4       | 3.2     | 1530    |  |
| REX1592                    |                                   | 9.0      | 0.7     | 4       | <0.02   | 590     | 0.6     | <3      | <0.05   | 44.8    | 1       | 274     | 247     | 8       | 1.0     | 570     |  |
| DUP                        |                                   | 9.0      | 0.8     | 3       | 0.02    | 610     | 0.6     | <3      | <0.05   | 47.9    | 1       | 352     | 255     | 9       | 1.1     | 674     |  |
| Target Range - Lower Bound |                                   | 8.5      | 0.6     | <2      | <0.02   | 560     | 0.4     | <3      | <0.05   | 43.8    | <1      | 297     | 238     | 7       | 0.9     | 590     |  |
| Upper Bound                |                                   | 9.6      | 0.9     | 4       | 0.04    | 640     | 0.8     | 6       | 0.10    | 48.9    | 2       | 329     | 264     | 10      | 1.2     | 654     |  |
| REX1602                    |                                   | 7.7      | 0.7     | 4       | <0.02   | 510     | 2.9     | <3      | 0.11    | 148.5   | 3       | 120.0   | 306     | 7       | 7.9     | 1500    |  |
| DUP                        |                                   | 7.7      | 0.6     | <2      | <0.02   | 490     | 2.2     | <3      | 0.07    | 124.0   | 2       | 101.5   | 211     | 9       | 6.5     | 1710    |  |
| Target Range - Lower Bound |                                   | 7.2      | 0.5     | <2      | <0.02   | 470     | 2.2     | <3      | <0.05   | 129.0   | <1      | 105.0   | 245     | 7       | 6.7     | 1525    |  |
| Upper Bound                |                                   | 8.2      | 0.8     | 4       | 0.04    | 540     | 2.9     | 6       | 0.10    | 143.5   | 4       | 116.5   | 272     | 9       | 7.7     | 1685    |  |
| REX1612                    |                                   | 8.3      | 1.4     | 11      | 0.19    | 1190    | 3.4     | <3      | 0.14    | 89.2    | 1       | 2190    | 529     | 12      | 7.8     | 6260    |  |
| DUP                        |                                   | 8.3      | 1.5     | 9       | 0.11    | 1250    | 3.8     | <3      | 0.19    | 86.8    | 1       | 2170    | 602     | 16      | 7.8     | 6460    |  |
| Target Range - Lower Bound |                                   | 7.8      | 1.3     | 8       | 0.12    | 1150    | 3.2     | <3      | 0.11    | 83.4    | <1      | 2070    | 537     | 12      | 7.3     | 6040    |  |
| Upper Bound                |                                   | 8.8      | 1.6     | 13      | 0.18    | 1290    | 4.0     | 6       | 0.22    | 92.6    | 2       | 2290    | 594     | 16      | 8.3     | 6680    |  |
|                            |                                   |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23    | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |     |
|----------------------------|-----------------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                            |                                   | Dy         | Er      | Eu      | Fe      | Ga      | Gd      | Ge      | Hf      | Hg      | Ho      | I       | In      | La      | Li      | Lu      |     |
|                            |                                   | ppb        | ppb     | ppb     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb |
|                            |                                   | 0.1        | 0.1     | 0.1     | 0.1     | 0.5     | 0.1     | 0.1     | 0.5     | 0.1     | 0.1     | 0.01    | 0.1     | 0.1     | 0.2     | 0.1     |     |
|                            |                                   | DUPLICATES |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| REX1524                    |                                   | 151.5      | 77.5    | 57.6    | 8.0     | 72.3    | 217     | 5.6     | 1.9     | 0.4     | 29.2    | 0.19    | <0.1    | 318     | 2.3     | 7.5     |     |
| DUP                        |                                   | 143.5      | 65.0    | 59.5    | 7.3     | 69.4    | 224     | 6.0     | 1.8     | 0.3     | 26.0    | 0.20    | <0.1    | 329     | 2.0     | 5.3     |     |
| Target Range - Lower Bound |                                   | 140.0      | 67.6    | 55.5    | 7.2     | 66.8    | 209     | 5.4     | 1.3     | 0.2     | 26.1    | 0.18    | <0.1    | 307     | 1.8     | 6.0     |     |
| Upper Bound                |                                   | 155.0      | 74.9    | 61.6    | 8.1     | 74.9    | 232     | 6.2     | 2.4     | 0.5     | 29.1    | 0.21    | 0.2     | 340     | 2.5     | 6.8     |     |
| REX1548                    |                                   | 70.3       | 33.8    | 35.3    | 8.0     | 51.7    | 151.5   | 3.7     | 1.7     | 0.3     | 14.4    | 0.07    | <0.1    | 257     | 3.1     | 2.5     |     |
| DUP                        |                                   | 65.3       | 32.5    | 31.5    | 6.9     | 47.0    | 133.5   | 3.4     | 1.4     | 0.4     | 13.6    | 0.06    | <0.1    | 239     | 1.1     | 2.5     |     |
| Target Range - Lower Bound |                                   | 64.3       | 31.4    | 31.6    | 7.0     | 46.4    | 135.5   | 3.3     | 1.0     | 0.2     | 13.2    | 0.05    | <0.1    | 236     | 1.8     | 2.3     |     |
| Upper Bound                |                                   | 71.3       | 34.9    | 35.2    | 7.9     | 52.3    | 149.5   | 3.8     | 2.1     | 0.5     | 14.8    | 0.08    | 0.2     | 261     | 2.4     | 2.7     |     |
| REX1558                    |                                   | 47.8       | 24.2    | 29.5    | 6.9     | 59.1    | 123.5   | 4.1     | 1.5     | 0.6     | 9.4     | 0.15    | <0.1    | 401     | 1.4     | 1.9     |     |
| DUP                        |                                   | 42.2       | 22.1    | 25.1    | 5.9     | 57.9    | 106.5   | 3.6     | 1.3     | 0.4     | 8.5     | 0.13    | <0.1    | 366     | 1.2     | 1.8     |     |
| Target Range - Lower Bound |                                   | 42.7       | 21.9    | 25.8    | 6.0     | 55.1    | 109.0   | 3.6     | 0.8     | 0.4     | 8.4     | 0.12    | <0.1    | 364     | 1.0     | 1.7     |     |
| Upper Bound                |                                   | 47.4       | 24.4    | 28.8    | 6.8     | 61.9    | 121.0   | 4.1     | 2.0     | 0.6     | 9.5     | 0.16    | 0.2     | 403     | 1.6     | 2.0     |     |
| REX1568                    |                                   | 66.7       | 31.4    | 36.2    | 5.8     | 41.0    | 154.0   | 4.1     | 1.5     | 0.4     | 13.4    | 0.05    | <0.1    | 301     | 0.9     | 2.2     |     |
| DUP                        |                                   | 80.4       | 37.5    | 42.1    | 6.9     | 46.5    | 179.5   | 4.5     | 1.6     | 0.4     | 16.0    | 0.06    | <0.1    | 324     | 1.5     | 2.7     |     |
| Target Range - Lower Bound |                                   | 69.8       | 32.6    | 37.1    | 5.9     | 41.1    | 158.5   | 4.0     | 1.0     | 0.3     | 13.9    | 0.04    | <0.1    | 297     | 0.9     | 2.2     |     |
| Upper Bound                |                                   | 77.3       | 36.3    | 41.2    | 6.8     | 46.4    | 175.0   | 4.6     | 2.1     | 0.5     | 15.5    | 0.07    | 0.2     | 328     | 1.5     | 2.7     |     |
| REX1592                    |                                   | 10.0       | 5.0     | 4.6     | 5.8     | 18.2    | 21.9    | 0.8     | 0.8     | 0.3     | 2.0     | 0.05    | <0.1    | 65.1    | 0.5     | 0.5     |     |
| DUP                        |                                   | 14.0       | 6.8     | 6.3     | 6.1     | 19.2    | 30.0    | 0.9     | 0.9     | 0.3     | 2.8     | 0.07    | <0.1    | 85.0    | 0.4     | 0.6     |     |
| Target Range - Lower Bound |                                   | 11.3       | 5.5     | 5.1     | 5.6     | 17.3    | 24.6    | 0.7     | <0.5    | 0.2     | 2.2     | 0.05    | <0.1    | 71.2    | <0.2    | 0.4     |     |
| Upper Bound                |                                   | 12.7       | 6.3     | 5.8     | 6.3     | 20.1    | 27.3    | 1.0     | 1.0     | 0.4     | 2.6     | 0.07    | 0.2     | 78.9    | 0.7     | 0.7     |     |
| REX1602                    |                                   | 16.9       | 9.4     | 5.3     | 14.5    | 17.8    | 24.2    | 0.6     | 1.1     | 0.4     | 3.7     | 0.13    | 0.1     | 39.0    | 0.4     | 0.9     |     |
| DUP                        |                                   | 11.9       | 6.3     | 3.8     | 11.4    | 16.4    | 17.8    | 0.4     | 1.1     | 0.5     | 2.6     | 0.14    | <0.1    | 35.6    | 0.3     | 0.6     |     |
| Target Range - Lower Bound |                                   | 13.6       | 7.4     | 4.2     | 12.2    | 15.7    | 19.9    | 0.4     | <0.5    | 0.3     | 2.9     | 0.12    | <0.1    | 35.3    | <0.2    | 0.6     |     |
| Upper Bound                |                                   | 15.2       | 8.3     | 4.9     | 13.7    | 18.5    | 22.2    | 0.6     | 1.7     | 0.6     | 3.4     | 0.15    | 0.2     | 39.3    | 0.4     | 0.9     |     |
| REX1612                    |                                   | 120.0      | 57.9    | 58.0    | 10.8    | 39.7    | 293     | 9.6     | 2.9     | 0.9     | 23.9    | 0.43    | 0.1     | 777     | 3.7     | 5.3     |     |
| DUP                        |                                   | 119.5      | 58.0    | 58.0    | 12.7    | 42.1    | 290     | 9.9     | 3.1     | 0.8     | 23.9    | 0.46    | 0.1     | 772     | 5.2     | 5.3     |     |
| Target Range - Lower Bound |                                   | 113.5      | 55.0    | 55.0    | 11.1    | 38.4    | 277     | 9.2     | 2.4     | 0.7     | 22.6    | 0.41    | <0.1    | 736     | 4.0     | 4.9     |     |
| Upper Bound                |                                   | 126.0      | 60.9    | 61.0    | 12.4    | 43.4    | 306     | 10.3    | 3.7     | 1.0     | 25.2    | 0.48    | 0.2     | 813     | 4.9     | 5.7     |     |
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|----------------------------|-----------------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                            |                                   | Mg         | Mn      | Mo      | Nb      | Nd      | Ni      | Pb      | Pb 206  | Pb 207  | Pb 208  | Pd      | Pr      | Rb      | Re      | Sb      |
|                            |                                   | ppm        | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     |
|                            |                                   | 0.01       | 0.01    | 0.5     | 0.1     | 0.1     | 1       | 1       | 1       | 1       | 1       | 0.1     | 0.1     | 0.1     | 0.1     | 0.5     |
|                            |                                   | DUPLICATES |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| REX1524                    |                                   | 67.2       | 7.06    | 4.4     | 0.2     | 860     | 454     | 188     | 44      | 41      | 103     | 5.4     | 163.5   | 438     | <0.1    | <0.5    |
| DUP                        |                                   | 63.7       | 8.28    | 4.5     | 0.2     | 906     | 470     | 138     | 32      | 30      | 75      | 4.9     | 169.5   | 426     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 62.2       | 7.28    | 3.7     | <0.1    | 839     | 438     | 154     | 35      | 33      | 84      | 4.8     | 158.0   | 410     | <0.1    | <0.5    |
| Upper Bound                |                                   | 68.7       | 8.06    | 5.2     | 0.3     | 927     | 486     | 172     | 41      | 38      | 94      | 5.5     | 175.0   | 454     | 0.2     | 1.0     |
| REX1548                    |                                   | 24.8       | 5.98    | 2.4     | 0.3     | 573     | 144     | 23      | 5       | 5       | 13      | 4.4     | 109.5   | 319     | <0.1    | <0.5    |
| DUP                        |                                   | 18.70      | 5.37    | 1.8     | 0.3     | 504     | 119     | 42      | 10      | 9       | 23      | 3.2     | 99.7    | 295     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 20.7       | 5.38    | 1.5     | 0.2     | 511     | 124     | 30      | 6       | 6       | 16      | 3.5     | 99.3    | 292     | <0.1    | <0.5    |
| Upper Bound                |                                   | 22.8       | 5.97    | 2.7     | 0.4     | 566     | 139     | 35      | 9       | 8       | 20      | 4.1     | 110.0   | 322     | 0.2     | 1.0     |
| REX1558                    |                                   | 24.1       | 8.97    | 6.0     | 0.2     | 665     | 152     | 20      | 5       | 4       | 11      | 3.4     | 148.0   | 272     | <0.1    | <0.5    |
| DUP                        |                                   | 21.7       | 8.02    | 5.1     | 0.2     | 570     | 136     | 32      | 8       | 7       | 18      | 2.6     | 129.0   | 250     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 21.7       | 8.06    | 4.8     | <0.1    | 587     | 136     | 24      | 5       | 4       | 13      | 2.8     | 131.5   | 248     | <0.1    | <0.5    |
| Upper Bound                |                                   | 24.1       | 8.93    | 6.3     | 0.3     | 648     | 152     | 28      | 8       | 7       | 16      | 3.3     | 145.5   | 274     | 0.2     | 1.0     |
| REX1568                    |                                   | 21.5       | 5.38    | 1.7     | 0.2     | 618     | 147     | 22      | 5       | 4       | 12      | 3.5     | 120.5   | 438     | <0.1    | <0.5    |
| DUP                        |                                   | 25.4       | 5.71    | 1.8     | 0.4     | 679     | 167     | 39      | 9       | 8       | 22      | 4.0     | 131.0   | 491     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 22.3       | 5.26    | 1.2     | 0.2     | 616     | 148     | 28      | 6       | 5       | 15      | 3.5     | 119.5   | 441     | <0.1    | <0.5    |
| Upper Bound                |                                   | 24.6       | 5.83    | 2.3     | 0.4     | 681     | 166     | 33      | 8       | 7       | 19      | 4.0     | 132.0   | 488     | 0.2     | 1.0     |
| REX1592                    |                                   | 13.60      | 11.45   | 2.6     | 0.1     | 100.0   | 49      | 17      | 4       | 4       | 9       | 1.6     | 24.9    | 136.0   | <0.1    | <0.5    |
| DUP                        |                                   | 14.00      | 12.60   | 3.2     | 0.1     | 129.0   | 56      | 15      | 4       | 3       | 8       | 1.8     | 32.1    | 162.0   | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 13.10      | 11.40   | 2.3     | <0.1    | 108.5   | 49      | 14      | 3       | 2       | 7       | 1.5     | 27.0    | 141.5   | <0.1    | <0.5    |
| Upper Bound                |                                   | 14.50      | 12.65   | 3.5     | 0.2     | 120.5   | 56      | 18      | 5       | 5       | 10      | 1.9     | 30.0    | 156.5   | 0.2     | 1.0     |
| REX1602                    |                                   | 24.8       | 24.4    | 2.9     | 0.2     | 77.4    | 250     | 41      | 10      | 8       | 21      | 2.2     | 18.1    | 508     | <0.1    | <0.5    |
| DUP                        |                                   | 16.90      | 17.00   | 3.9     | 0.1     | 61.2    | 212     | 23      | 6       | 5       | 12      | 2.2     | 15.0    | 380     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 19.80      | 19.65   | 2.7     | <0.1    | 65.7    | 218     | 29      | 7       | 5       | 15      | 2.0     | 15.6    | 422     | <0.1    | <0.5    |
| Upper Bound                |                                   | 21.9       | 21.7    | 4.1     | 0.2     | 72.9    | 244     | 35      | 9       | 8       | 18      | 2.4     | 17.5    | 466     | 0.2     | 1.0     |
| REX1612                    |                                   | 22.5       | 12.15   | 4.7     | 0.5     | 1400    | 353     | 55      | 14      | 11      | 29      | 6.8     | 350     | 521     | <0.1    | <0.5    |
| DUP                        |                                   | 20.8       | 13.25   | 4.9     | 0.5     | 1375    | 359     | 55      | 14      | 11      | 29      | 7.4     | 340     | 509     | <0.1    | <0.5    |
| Target Range - Lower Bound |                                   | 20.6       | 12.05   | 4.1     | 0.4     | 1320    | 337     | 51      | 12      | 9       | 27      | 6.6     | 328     | 489     | <0.1    | <0.5    |
| Upper Bound                |                                   | 22.7       | 13.35   | 5.5     | 0.6     | 1455    | 375     | 59      | 16      | 13      | 31      | 7.6     | 362     | 541     | 0.2     | 1.0     |
|                            |                                   |            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |



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Project: CALVERT

## QC CERTIFICATE OF ANALYSIS PH10173275

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23    | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |     |
|----------------------------|-----------------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                            |                                   | Sc         | Se      | Sm      | Sn      | Sr      | Ta      | Tb      | Te      | Th      | Ti      | Tl      | Tm      | U       | W       | Y       |     |
|                            |                                   | ppb        | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb |
|                            |                                   | 1          | 2       | 0.1     | 0.2     | 1       | 1       | 0.1     | 1       | 0.02    | 5       | 0.5     | 0.1     | 0.1     | 1       | 0.1     |     |
|                            |                                   | DUPLICATES |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| REX1524                    |                                   | 51         | 29      | 230     | <0.2    | 431     | <1      | 32.2    | <1      | 33.6    | 203     | 0.5     | 8.4     | 41.5    | 1       | 590     |     |
| DUP                        |                                   | 37         | 59      | 239     | <0.2    | 415     | <1      | 32.6    | 2       | 32.8    | 159     | 0.5     | 6.4     | 42.9    | 1       | 549     |     |
| Target Range - Lower Bound |                                   | 41         | 40      | 223     | <0.2    | 401     | <1      | 30.7    | <1      | 31.5    | 167     | <0.5    | 6.9     | 40.0    | <1      | 541     |     |
| Upper Bound                |                                   | 47         | 48      | 246     | 0.4     | 445     | 2       | 34.1    | 2       | 34.9    | 195     | 1.0     | 7.9     | 44.4    | 2       | 598     |     |
| REX1548                    |                                   | 35         | 34      | 126.0   | <0.2    | 266     | <1      | 18.6    | <1      | 60.7    | 307     | 0.6     | 3.2     | 25.8    | <1      | 396     |     |
| DUP                        |                                   | 29         | 19      | 110.5   | <0.2    | 213     | <1      | 17.1    | 3       | 49.6    | 190     | 0.5     | 3.1     | 20.9    | <1      | 359     |     |
| Target Range - Lower Bound |                                   | 29         | 23      | 112.0   | <0.2    | 227     | <1      | 16.9    | <1      | 52.4    | 231     | <0.5    | 2.9     | 22.1    | <1      | 359     |     |
| Upper Bound                |                                   | 35         | 30      | 124.5   | 0.4     | 252     | 2       | 18.8    | 3       | 57.9    | 266     | 1.0     | 3.4     | 24.6    | 2       | 396     |     |
| REX1558                    |                                   | 18         | 28      | 117.5   | <0.2    | 334     | <1      | 14.1    | 2       | 58.3    | 127     | 0.6     | 2.2     | 36.3    | <1      | 209     |     |
| DUP                        |                                   | 17         | 24      | 101.0   | <0.2    | 309     | <1      | 12.2    | 3       | 51.4    | 120     | 0.6     | 2.2     | 31.5    | <1      | 187.5   |     |
| Target Range - Lower Bound |                                   | 16         | 23      | 103.5   | <0.2    | 304     | <1      | 12.4    | <1      | 52.1    | 112     | <0.5    | 2.0     | 32.1    | <1      | 188.0   |     |
| Upper Bound                |                                   | 19         | 29      | 115.0   | 0.4     | 339     | 2       | 13.9    | 4       | 57.6    | 135     | 1.0     | 2.4     | 35.7    | 2       | 208     |     |
| REX1568                    |                                   | 31         | 20      | 130.5   | <0.2    | 295     | <1      | 18.5    | 1       | 66.0    | 210     | 0.6     | 2.8     | 23.7    | <1      | 374     |     |
| DUP                        |                                   | 36         | 29      | 148.5   | <0.2    | 342     | <1      | 22.1    | 1       | 70.7    | 351     | 0.7     | 3.5     | 26.3    | <1      | 402     |     |
| Target Range - Lower Bound |                                   | 31         | 21      | 132.5   | <0.2    | 302     | <1      | 19.2    | <1      | 64.9    | 261     | <0.5    | 2.9     | 23.7    | <1      | 369     |     |
| Upper Bound                |                                   | 36         | 28      | 146.5   | 0.4     | 335     | 2       | 21.4    | 2       | 71.8    | 300     | 1.0     | 3.4     | 26.4    | 2       | 408     |     |
| REX1592                    |                                   | 11         | <2      | 23.1    | <0.2    | 161     | <1      | 2.7     | 1       | 39.4    | 81      | 0.5     | 0.6     | 10.6    | <1      | 53.1    |     |
| DUP                        |                                   | 13         | <2      | 30.9    | 0.2     | 161     | <1      | 3.7     | <1      | 51.3    | 76      | 0.6     | 0.8     | 14.5    | <1      | 72.0    |     |
| Target Range - Lower Bound |                                   | 10         | <2      | 25.6    | <0.2    | 152     | <1      | 2.9     | <1      | 43.1    | 70      | <0.5    | 0.6     | 11.8    | <1      | 59.3    |     |
| Upper Bound                |                                   | 14         | 4       | 28.5    | 0.4     | 170     | 2       | 3.5     | 2       | 47.6    | 87      | 1.0     | 0.8     | 13.3    | 2       | 65.8    |     |
| REX1602                    |                                   | 16         | 7       | 22.6    | <0.2    | 394     | <1      | 3.8     | 1       | 29.0    | 107     | 1.0     | 1.2     | 9.1     | <1      | 98.0    |     |
| DUP                        |                                   | 14         | 16      | 16.7    | <0.2    | 332     | <1      | 2.6     | 1       | 32.3    | 88      | 1.0     | 0.8     | 8.6     | <1      | 64.4    |     |
| Target Range - Lower Bound |                                   | 13         | 9       | 18.6    | <0.2    | 344     | <1      | 2.9     | <1      | 29.1    | 88      | <0.5    | 0.9     | 8.3     | <1      | 77.0    |     |
| Upper Bound                |                                   | 17         | 14      | 20.7    | 0.4     | 382     | 2       | 3.5     | 2       | 32.2    | 107     | 1.6     | 1.2     | 9.4     | 2       | 85.4    |     |
| REX1612                    |                                   | 84         | 48      | 321     | 0.4     | 282     | <1      | 33.9    | <1      | 174.5   | 233     | 1.6     | 6.3     | 40.4    | 1       | 539     |     |
| DUP                        |                                   | 93         | 25      | 313     | 0.5     | 277     | <1      | 33.9    | 1       | 184.0   | 284     | 1.7     | 6.4     | 42.9    | 1       | 527     |     |
| Target Range - Lower Bound |                                   | 83         | 33      | 301     | <0.2    | 265     | <1      | 32.1    | <1      | 170.5   | 241     | 1.1     | 5.9     | 39.5    | <1      | 506     |     |
| Upper Bound                |                                   | 94         | 40      | 333     | 0.7     | 294     | 2       | 35.7    | 2       | 188.0   | 276     | 2.2     | 6.8     | 43.8    | 2       | 560     |     |
|                            |                                   |            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Yb<br>ppb<br>0.1 | ME-MS23<br>Zn<br>ppb<br>10 | ME-MS23<br>Zr<br>ppb<br>0.1 |
|----------------------------|-----------------------------------|-----------------------------|----------------------------|-----------------------------|
| DUPLICATES                 |                                   |                             |                            |                             |
| REX1524                    |                                   | 50.0                        | 430                        | 13.3                        |
| DUP                        |                                   | 36.9                        | 460                        | 13.5                        |
| Target Range - Lower Bound |                                   | 41.2                        | 410                        | 12.6                        |
| Upper Bound                |                                   | 45.7                        | 480                        | 14.2                        |
| REX1548                    |                                   | 18.6                        | 50                         | 20.9                        |
| DUP                        |                                   | 17.8                        | 40                         | 14.9                        |
| Target Range - Lower Bound |                                   | 17.2                        | 30                         | 16.9                        |
| Upper Bound                |                                   | 19.2                        | 60                         | 18.9                        |
| REX1558                    |                                   | 13.5                        | 20                         | 22.6                        |
| DUP                        |                                   | 12.7                        | 20                         | 18.2                        |
| Target Range - Lower Bound |                                   | 12.3                        | <10                        | 19.3                        |
| Upper Bound                |                                   | 13.9                        | 30                         | 21.5                        |
| REX1568                    |                                   | 16.0                        | 20                         | 16.1                        |
| DUP                        |                                   | 19.8                        | 20                         | 19.1                        |
| Target Range - Lower Bound |                                   | 16.9                        | <10                        | 16.6                        |
| Upper Bound                |                                   | 18.9                        | 30                         | 18.6                        |
| REX1592                    |                                   | 3.2                         | 40                         | 14.6                        |
| DUP                        |                                   | 4.4                         | 30                         | 17.6                        |
| Target Range - Lower Bound |                                   | 3.5                         | 20                         | 15.2                        |
| Upper Bound                |                                   | 4.1                         | 50                         | 17.0                        |
| REX1602                    |                                   | 6.7                         | 90                         | 22.1                        |
| DUP                        |                                   | 4.5                         | 70                         | 21.3                        |
| Target Range - Lower Bound |                                   | 5.2                         | 70                         | 20.5                        |
| Upper Bound                |                                   | 6.0                         | 90                         | 22.9                        |
| REX1612                    |                                   | 37.9                        | 40                         | 45.7                        |
| DUP                        |                                   | 38.5                        | 50                         | 47.3                        |
| Target Range - Lower Bound |                                   | 36.2                        | 30                         | 44.1                        |
| Upper Bound                |                                   | 40.2                        | 60                         | 48.9                        |
|                            |                                   |                             |                            |                             |