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Plus Appendix Pages

Finalized Date: 25-OCT-2017

This copy reported on 2-DEC-2017

Account: TODRIV

CERTIFICATE AD17205417

P.O. No.: SC17-04

This report is for 59 Rock samples submitted to our lab in Adelaide, SA, Australia on 25-SEP-2017.

The following have access to data associated with this certificate:

PAUL BURTON
CATH WETHERBY

KIM GREY

GAVIN OTTO

SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|----------|--------------------------------|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| LOG-24 | Pulp Login - Rcd w/o Barcode |
| LEV-01 | Waste Disposal Levy |
| CRU-21 | Crush entire sample >70% -6 mm |
| PUL-21 | Pulverize entire sample |
| PUL-QC | Pulverizing QC Test |

ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|----------|--------------------------------|------------|
| PGM-MS23 | Pt, Pd, Au 30g FA ICP-MS | ICP-MS |
| ME-MS89L | Super Trace DL Na2O2 by ICP-MS | ICP-MS |

To: TODD RIVER METALS
ATTN: KIM GREY
LEVEL 1
282 ROKEBY ROAD
SUBIACO 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.

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

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | WEI-21 Recvd Wt. kg | PUL-QC Pass75um % | ME-MS89L Ag ppm | ME-MS89L As ppm | ME-MS89L Ba ppm | ME-MS89L Be ppm | ME-MS89L Bi ppm | ME-MS89L Ca % | ME-MS89L Cd ppm | ME-MS89L Ce ppm | ME-MS89L Co ppm | ME-MS89L Cs ppm | ME-MS89L Cu ppm | ME-MS89L Dy ppm | ME-MS89L Er ppm |
|--------------------|--------------------------|---------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 0.02 | 0.01 | 5 | 4 | 2 | 0.4 | 0.1 | 0.1 | 0.8 | 0.2 | 0.5 | 0.1 | 20 | 0.03 | 0.02 |
| SC170251 | | 0.96 | | <5 | <4 | 337 | 1.7 | 0.7 | 0.1 | <0.8 | 14.5 | 3.2 | 14.4 | 110 | 1.21 | 0.72 |
| SC170252 | | 0.90 | | <5 | 6 | 240 | 1.4 | 1.1 | 0.1 | <0.8 | 5.5 | 1.1 | 29.2 | <20 | 0.31 | 0.36 |
| SC170253 | | 1.34 | | <5 | 6 | 195 | 7.4 | 0.3 | <0.1 | <0.8 | 21.5 | 1.1 | 222 | <20 | 2.47 | 1.72 |
| SC170254 | | 1.30 | | <5 | <4 | 151 | 3.7 | 0.3 | <0.1 | <0.8 | 10.8 | 1.1 | 13.7 | <20 | 1.39 | 0.79 |
| SC170255 | | 1.53 | | <5 | 38 | 397 | 4.8 | 0.4 | <0.1 | <0.8 | 83.7 | 1.6 | 88.6 | <20 | 5.93 | 2.67 |
| SC170256 | | 1.38 | | <5 | 52 | 716 | 6.1 | 0.3 | <0.1 | <0.8 | 142.5 | 3.8 | 186.0 | <20 | 6.70 | 3.51 |
| SC170257 | | 1.58 | | <5 | 6 | 333 | 2.1 | 0.3 | <0.1 | <0.8 | 14.5 | 0.7 | 25.2 | <20 | 2.81 | 1.75 |
| SC170258 | | 0.88 | | <5 | 5 | 330 | 1.0 | 0.4 | 0.1 | <0.8 | 7.0 | 1.1 | 12.2 | <20 | 0.50 | 0.40 |
| SC170259 | | 1.75 | | <5 | 10 | 79 | 3.6 | 0.3 | 0.1 | <0.8 | 78.7 | 0.6 | 37.9 | <20 | 3.27 | 1.21 |
| SC170260 | | 1.24 | | 8 | 10 | 68 | 2.9 | 0.8 | 0.1 | 1.0 | 64.8 | 1.0 | 11.6 | <20 | 2.81 | 1.23 |
| SC170261 | | 1.30 | 95.8 | 5 | 19 | 449 | 10.4 | 0.5 | 0.1 | <0.8 | 282 | 1.6 | 115.5 | <20 | 6.16 | 1.88 |
| SC170262 | | 0.98 | | <5 | 10 | 347 | 4.0 | 0.4 | <0.1 | <0.8 | 93.5 | 1.6 | 61.3 | <20 | 3.97 | 1.36 |
| SC170263 | | 1.69 | | <5 | 9 | 324 | 5.9 | 1.7 | <0.1 | <0.8 | 103.0 | 1.5 | 126.5 | <20 | 3.34 | 1.19 |
| SC170264 | | 1.38 | | <5 | 8 | 116 | 9.1 | 0.6 | <0.1 | <0.8 | 46.3 | 1.4 | 154.0 | <20 | 0.86 | 0.34 |
| SC170265 | | 1.53 | | 5 | 5 | 230 | 7.1 | 0.3 | <0.1 | <0.8 | 61.7 | 1.4 | 158.5 | <20 | 1.16 | 0.25 |
| SC170266 | | 1.22 | | <5 | 13 | 403 | 2.4 | 0.6 | <0.1 | <0.8 | 70.4 | 1.2 | 20.2 | <20 | 1.32 | 0.55 |
| SC170267 | | 1.20 | | <5 | 10 | 298 | 4.2 | 1.1 | <0.1 | <0.8 | 73.4 | 2.0 | 18.2 | <20 | 3.22 | 1.44 |
| SC170268 | | 1.89 | | <5 | <4 | 47 | 3.0 | 0.4 | 0.1 | <0.8 | 10.8 | 0.6 | 19.3 | <20 | 0.77 | 0.32 |
| SC170269 | | 1.21 | | 14 | 10 | 90 | 3.6 | 0.6 | 0.1 | <0.8 | 11.2 | 0.9 | 25.5 | <20 | 1.23 | 0.60 |
| SC170270 | | 2.25 | | <5 | 4 | 33 | 4.3 | 0.3 | <0.1 | <0.8 | 10.6 | 1.0 | 21.3 | <20 | 0.40 | 0.24 |
| SC170271 | | 1.58 | | <5 | 9 | 46 | 1.5 | 1.1 | <0.1 | <0.8 | 66.3 | 0.6 | 2.8 | <20 | 1.80 | 0.78 |
| SC170272 | | 1.43 | | <5 | 12 | 66 | 1.4 | 0.3 | <0.1 | <0.8 | 50.2 | 0.7 | 5.9 | <20 | 1.51 | 0.52 |
| SC170273 | | 1.41 | | <5 | 6 | 30 | 2.3 | 0.3 | <0.1 | <0.8 | 58.5 | 1.1 | 5.0 | <20 | 4.15 | 2.31 |
| SC170274 | | 1.46 | | <5 | 10 | 106 | 6.4 | 0.3 | 0.1 | <0.8 | 24.5 | 0.5 | 100.0 | <20 | 1.15 | 0.22 |
| SC170275 | | 0.05 | | <5 | 379 | 254 | 75.5 | 457 | 1.8 | <0.8 | 11.1 | 46.8 | 210 | 290 | 3.24 | 1.44 |
| SC170276 | | 1.33 | | <5 | 16 | 54 | 4.1 | 0.6 | <0.1 | <0.8 | 11.7 | 0.6 | 75.7 | <20 | 0.91 | 0.27 |
| SC170277 | | 1.48 | | <5 | 8 | 76 | 4.2 | 0.6 | 0.1 | <0.8 | 25.0 | 0.6 | 9.6 | <20 | 1.22 | 0.66 |
| SC170278 | | 1.41 | | <5 | 6 | 32 | 2.7 | 0.3 | 0.1 | <0.8 | 5.0 | 0.5 | 24.2 | <20 | 1.36 | 0.30 |
| SC170279 | | 1.40 | | <5 | 11 | 49 | 8.5 | 0.3 | <0.1 | <0.8 | 13.7 | 1.6 | 123.5 | <20 | 1.24 | 0.46 |
| SC170280 | | 1.18 | | <5 | 6 | 47 | 1.8 | 0.2 | 0.1 | <0.8 | 32.3 | 0.8 | 1.8 | <20 | 1.83 | 0.71 |
| SC170281 | | 0.86 | | <5 | 9 | 80 | 1.8 | 0.3 | <0.1 | <0.8 | 60.2 | 0.6 | 2.8 | <20 | 2.28 | 0.74 |
| SC170282 | | 1.09 | | <5 | <4 | 716 | 1.0 | 0.4 | 0.1 | <0.8 | 3.3 | 1.0 | 30.6 | <20 | 0.82 | 0.77 |
| SC170283 | | 1.34 | | <5 | <4 | 194 | 3.7 | 0.9 | 0.1 | <0.8 | 14.3 | 0.8 | 26.6 | <20 | 0.83 | 0.34 |
| SC170284 | | 1.31 | | <5 | 5 | 322 | 2.2 | 0.3 | 0.1 | <0.8 | 12.5 | 0.9 | 48.3 | <20 | 1.64 | 1.32 |
| SC170285 | | 1.19 | 98.6 | 6 | <4 | 44 | 4.7 | 2.0 | 0.1 | <0.8 | 5.0 | 1.2 | 29.3 | <20 | 0.82 | 0.62 |
| SC170286 | | 1.60 | | <5 | <4 | 325 | 0.4 | 0.6 | 0.1 | <0.8 | 4.4 | 0.9 | 14.5 | <20 | 0.35 | 0.11 |
| SC170287 | | 1.31 | | 8 | 35 | 405 | 7.0 | 1.1 | 0.1 | <0.8 | 29.9 | 2.1 | 155.0 | <20 | 1.75 | 0.44 |
| SC170288 | | 1.86 | | 6 | 13 | 623 | 2.0 | 1.2 | <0.1 | <0.8 | 36.3 | 1.7 | 7.6 | <20 | 2.41 | 1.46 |
| SC170289 | | 1.17 | | 12 | 30 | 1010 | 13.3 | 0.7 | <0.1 | <0.8 | 196.0 | 1.4 | 559 | <20 | 5.35 | 2.19 |
| SC170290 | | 1.08 | | 8 | 10 | 592 | 1.1 | 0.8 | 0.1 | <0.8 | 52.0 | 1.5 | 13.9 | <20 | 5.34 | 3.50 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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



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CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | ME-MS89L Eu ppm 0.03 | ME-MS89L Fe % 0.05 | ME-MS89L Ga ppm 0.5 | ME-MS89L Gd ppm 0.03 | ME-MS89L Ge ppm 0.5 | ME-MS89L Ho ppm 0.01 | ME-MS89L In ppm 0.3 | ME-MS89L K % 0.05 | ME-MS89L La ppm 0.08 | ME-MS89L Li ppm 2 | ME-MS89L Lu ppm 0.05 | ME-MS89L Mn ppm 10 | ME-MS89L Mo ppm 2 | ME-MS89L Nb ppm 0.8 | ME-MS89L Nd ppm 0.07 |
|--------------------|-----------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|-----------------------------|----------------------------|------------------------------|-------------------------------|
| SC170251 | | 0.53 | 1.18 | 19.3 | 1.30 | <0.5 | 0.24 | <0.3 | 6.58 | 7.36 | 15 | 0.07 | 90 | <2 | 5.0 | 5.11 |
| SC170252 | | 0.31 | 1.10 | 26.3 | 0.56 | 0.8 | 0.09 | <0.3 | 4.75 | 3.06 | 24 | 0.05 | 90 | <2 | 6.8 | 1.65 |
| SC170253 | | 0.21 | 1.28 | 31.1 | 2.54 | 3.0 | 0.60 | <0.3 | 3.94 | 9.74 | 89 | 0.29 | 180 | <2 | 54.3 | 7.68 |
| SC170254 | | 0.18 | 1.26 | 18.1 | 1.39 | <0.5 | 0.24 | <0.3 | 3.25 | 5.17 | 38 | 0.10 | 110 | <2 | 4.4 | 3.66 |
| SC170255 | | 0.67 | 2.39 | 19.0 | 6.56 | <0.5 | 1.04 | <0.3 | 3.15 | 40.7 | 45 | 0.34 | 120 | <2 | 12.6 | 32.3 |
| SC170256 | | 0.85 | 4.24 | 42.8 | 8.26 | <0.5 | 1.34 | <0.3 | 5.68 | 68.6 | 46 | 0.51 | 130 | <2 | 35.8 | 55.7 |
| SC170257 | | 0.22 | 1.18 | 19.9 | 1.81 | <0.5 | 0.49 | <0.3 | 3.23 | 7.29 | 15 | 0.28 | 70 | <2 | 4.4 | 5.55 |
| SC170258 | | 0.32 | 1.12 | 21.5 | 0.68 | <0.5 | 0.10 | <0.3 | 5.90 | 3.64 | 8 | 0.05 | 100 | <2 | 1.7 | 2.93 |
| SC170259 | | 0.43 | 1.09 | 18.6 | 3.74 | <0.5 | 0.51 | <0.3 | 2.90 | 35.4 | 50 | 0.16 | 60 | <2 | 14.3 | 29.7 |
| SC170260 | | 0.36 | 1.33 | 11.3 | 4.97 | <0.5 | 0.56 | <0.3 | 1.93 | 28.9 | 55 | 0.11 | 120 | <2 | 14.1 | 25.8 |
| SC170261 | | 1.31 | 1.83 | 25.2 | 12.80 | <0.5 | 0.86 | <0.3 | 3.51 | 117.0 | 430 | 0.16 | 290 | <2 | 19.8 | 98.2 |
| SC170262 | | 0.41 | 2.71 | 21.9 | 5.53 | <0.5 | 0.70 | <0.3 | 5.51 | 43.2 | 46 | 0.15 | 120 | <2 | 16.4 | 36.5 |
| SC170263 | | 0.49 | 2.14 | 24.1 | 5.64 | <0.5 | 0.55 | <0.3 | 4.54 | 46.9 | 129 | 0.15 | 150 | <2 | 26.7 | 39.9 |
| SC170264 | | 0.28 | 1.39 | 25.8 | 1.78 | 2.5 | 0.17 | <0.3 | 3.82 | 23.2 | 101 | 0.05 | 160 | <2 | 30.7 | 16.75 |
| SC170265 | | 0.34 | 1.93 | 29.5 | 2.81 | 1.8 | 0.17 | <0.3 | 4.56 | 27.0 | 125 | <0.05 | 240 | <2 | 44.1 | 24.4 |
| SC170266 | | 0.53 | 1.48 | 19.0 | 2.93 | <0.5 | 0.24 | <0.3 | 6.64 | 40.7 | 15 | 0.05 | 90 | <2 | 9.6 | 23.1 |
| SC170267 | | 0.55 | 2.28 | 25.0 | 4.86 | <0.5 | 0.57 | <0.3 | 5.97 | 34.9 | 17 | 0.14 | 90 | <2 | 19.4 | 28.6 |
| SC170268 | | 0.14 | 1.06 | 20.0 | 1.53 | <0.5 | 0.13 | <0.3 | 2.59 | 4.69 | 39 | 0.07 | 120 | <2 | 23.1 | 5.44 |
| SC170269 | | 0.06 | 1.27 | 16.2 | 1.38 | <0.5 | 0.19 | <0.3 | 1.69 | 5.37 | 26 | 0.14 | 110 | <2 | 18.6 | 5.10 |
| SC170270 | | <0.03 | 1.02 | 26.4 | 0.76 | <0.5 | 0.05 | <0.3 | 3.33 | 4.81 | 51 | <0.05 | 120 | <2 | 39.0 | 4.36 |
| SC170271 | | 0.29 | 0.64 | 8.7 | 3.76 | <0.5 | 0.26 | <0.3 | 2.04 | 31.7 | 64 | <0.05 | 50 | <2 | 8.5 | 28.3 |
| SC170272 | | 0.25 | 0.95 | 9.8 | 3.73 | <0.5 | 0.26 | <0.3 | 1.39 | 24.4 | 63 | <0.05 | 130 | <2 | 12.9 | 18.80 |
| SC170273 | | 0.49 | 1.00 | 9.6 | 5.41 | <0.5 | 0.76 | <0.3 | 1.99 | 28.8 | 12 | 0.27 | 160 | <2 | 8.1 | 24.0 |
| SC170274 | | 0.36 | 1.85 | 25.2 | 2.93 | <0.5 | 0.16 | <0.3 | 4.28 | 10.35 | 153 | <0.05 | 230 | <2 | 38.9 | 14.50 |
| SC170275 | | 0.43 | 4.34 | 75.6 | 3.74 | 6.9 | 0.51 | <0.3 | 0.74 | 5.90 | 14050 | 0.19 | 8590 | 16 | 2650 | 6.37 |
| SC170276 | | 0.22 | 1.06 | 22.7 | 2.00 | <0.5 | 0.13 | <0.3 | 3.48 | 5.93 | 110 | <0.05 | 240 | <2 | 72.6 | 6.04 |
| SC170277 | | 0.18 | 0.86 | 7.7 | 1.92 | <0.5 | 0.24 | <0.3 | 1.35 | 12.20 | 45 | 0.07 | 80 | <2 | 6.5 | 10.35 |
| SC170278 | | 0.06 | 0.89 | 13.2 | 1.51 | <0.5 | 0.16 | <0.3 | 2.81 | 2.81 | 54 | 0.08 | 90 | <2 | 51.0 | 2.90 |
| SC170279 | | 0.16 | 1.57 | 33.0 | 1.75 | <0.5 | 0.22 | <0.3 | 3.46 | 5.74 | 240 | <0.05 | 380 | <2 | 91.9 | 5.75 |
| SC170280 | | 0.23 | 0.85 | 6.6 | 2.68 | <0.5 | 0.24 | <0.3 | 1.30 | 16.00 | 31 | 0.09 | 100 | <2 | 8.4 | 13.25 |
| SC170281 | | 0.40 | 0.89 | 10.0 | 3.87 | <0.5 | 0.40 | <0.3 | 1.81 | 28.1 | 41 | 0.09 | 60 | <2 | 11.3 | 24.2 |
| SC170282 | | 0.35 | 0.73 | 16.9 | 0.64 | <0.5 | 0.25 | <0.3 | 7.13 | 1.95 | 12 | 0.09 | 110 | <2 | 0.9 | 1.05 |
| SC170283 | | 0.49 | 0.60 | 19.2 | 1.24 | <0.5 | 0.18 | <0.3 | 8.53 | 8.28 | 20 | 0.06 | 100 | <2 | 9.7 | 6.58 |
| SC170284 | | 0.65 | 1.00 | 16.6 | 1.47 | <0.5 | 0.39 | <0.3 | 7.23 | 6.54 | 28 | 0.18 | 130 | <2 | 2.0 | 4.40 |
| SC170285 | | 0.04 | 1.26 | 17.3 | 0.49 | 4.2 | 0.11 | <0.3 | 5.84 | 2.75 | 15 | 0.12 | 220 | <2 | 5.5 | 1.78 |
| SC170286 | | 0.59 | 0.59 | 15.9 | 0.30 | 2.8 | 0.03 | <0.3 | 8.07 | 3.25 | 5 | <0.05 | 70 | <2 | 1.0 | 1.42 |
| SC170287 | | 0.38 | 1.77 | 32.7 | 2.75 | 5.5 | 0.22 | <0.3 | 4.91 | 11.80 | 95 | <0.05 | 260 | <2 | 114.5 | 15.90 |
| SC170288 | | 0.77 | 1.22 | 15.9 | 3.00 | 1.9 | 0.51 | <0.3 | 6.17 | 19.00 | 14 | 0.11 | 80 | <2 | 7.9 | 15.75 |
| SC170289 | | 1.52 | 2.02 | 27.0 | 11.65 | 3.2 | 0.76 | <0.3 | 4.29 | 97.6 | 220 | 0.22 | 490 | <2 | 34.8 | 92.3 |
| SC170290 | | 0.50 | 1.55 | 16.4 | 4.41 | 1.5 | 1.05 | <0.3 | 6.22 | 25.8 | 22 | 0.39 | 110 | <2 | 9.3 | 18.30 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | ME-MS89L Ni ppm 10 | ME-MS89L Pb ppm 0.5 | ME-MS89L Pr ppm 0.03 | ME-MS89L Rb ppm 0.5 | ME-MS89L Re ppm 0.01 | ME-MS89L Sb ppm 0.3 | ME-MS89L Se ppm 3 | ME-MS89L Sm ppm 0.04 | ME-MS89L Sn ppm 3 | ME-MS89L Sr ppm 20 | ME-MS89L Ta ppm 0.04 | ME-MS89L Tb ppm 0.01 | ME-MS89L Te ppm 0.5 | ME-MS89L Th ppm 0.1 | ME-MS89L Ti % 0.005 |
|--------------------|-----------------------------------|-----------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|
| SC170251 | | <10 | 40.1 | 1.44 | 380 | <0.01 | 0.3 | <3 | 1.27 | 28 | 50 | 0.90 | 0.15 | <0.5 | 3.0 | 0.049 |
| SC170252 | | <10 | 26.3 | 0.60 | 302 | <0.01 | <0.3 | <3 | 0.86 | 25 | 30 | 0.97 | 0.09 | <0.5 | 1.5 | 0.056 |
| SC170253 | | <10 | 4.2 | 2.24 | 613 | <0.01 | <0.3 | 3 | 2.34 | 429 | <20 | 57.7 | 0.42 | <0.5 | 9.3 | 0.112 |
| SC170254 | | <10 | 1.8 | 0.97 | 331 | <0.01 | 0.4 | 12 | 0.67 | 8 | <20 | 0.58 | 0.23 | 0.6 | 1.0 | 0.035 |
| SC170255 | | <10 | 8.8 | 9.33 | 254 | <0.01 | 1.3 | <3 | 6.76 | 62 | 20 | 1.87 | 0.87 | 0.6 | 19.1 | 0.217 |
| SC170256 | | <10 | 19.2 | 16.05 | 478 | <0.01 | 3.7 | <3 | 10.55 | 31 | 50 | 2.83 | 1.07 | <0.5 | 32.2 | 0.428 |
| SC170257 | | <10 | 5.2 | 1.51 | 198.5 | <0.01 | 0.5 | <3 | 1.34 | 8 | <20 | 0.35 | 0.37 | <0.5 | 5.7 | 0.036 |
| SC170258 | | <10 | 37.2 | 0.82 | 290 | <0.01 | 0.3 | <3 | 0.91 | 10 | 40 | 0.14 | 0.08 | <0.5 | 1.4 | 0.013 |
| SC170259 | | <10 | 4.6 | 8.69 | 274 | 0.01 | 0.5 | 3 | 5.10 | 48 | <20 | 2.55 | 0.64 | <0.5 | 23.7 | 0.108 |
| SC170260 | | <10 | 3.6 | 7.39 | 243 | <0.01 | 0.3 | <3 | 5.55 | 10 | <20 | 0.79 | 0.45 | <0.5 | 23.3 | 0.099 |
| SC170261 | | <10 | 15.9 | 28.9 | 804 | 0.02 | 0.3 | <3 | 18.85 | 255 | 20 | 3.08 | 1.51 | <0.5 | 29.5 | 0.130 |
| SC170262 | | <10 | 29.2 | 10.85 | 415 | <0.01 | <0.3 | 8 | 7.65 | 18 | 20 | 1.51 | 0.74 | <0.5 | 32.5 | 0.138 |
| SC170263 | | <10 | 31.5 | 11.85 | 529 | 0.01 | <0.3 | 8 | 8.29 | 114 | 20 | 22.4 | 0.69 | <0.5 | 32.9 | 0.134 |
| SC170264 | | <10 | 13.6 | 5.00 | 1065 | 0.01 | 0.3 | <3 | 2.32 | 271 | <20 | 9.63 | 0.19 | <0.5 | 9.5 | 0.058 |
| SC170265 | | <10 | 14.6 | 7.08 | 1120 | 0.01 | <0.3 | <3 | 4.38 | 226 | <20 | 8.46 | 0.26 | <0.5 | 3.4 | 0.014 |
| SC170266 | | <10 | 40.4 | 6.78 | 419 | 0.01 | 0.3 | 3 | 3.69 | 10 | 30 | 1.39 | 0.29 | <0.5 | 10.2 | 0.063 |
| SC170267 | | <10 | 33.8 | 8.69 | 417 | <0.01 | 0.4 | 4 | 6.19 | 14 | 30 | 1.65 | 0.59 | <0.5 | 30.5 | 0.133 |
| SC170268 | | <10 | 2.4 | 1.40 | 241 | 0.01 | <0.3 | 8 | 1.69 | 119 | 20 | 11.30 | 0.17 | <0.5 | 1.7 | 0.022 |
| SC170269 | | 10 | 9.5 | 1.17 | 192.5 | <0.01 | 0.3 | <3 | 1.31 | 113 | 490 | 6.94 | 0.24 | 0.5 | 3.0 | 0.018 |
| SC170270 | | <10 | 1.5 | 1.27 | 399 | <0.01 | <0.3 | <3 | 1.11 | 176 | 20 | 9.69 | 0.08 | <0.5 | 3.8 | 0.021 |
| SC170271 | | <10 | 5.9 | 7.61 | 150.0 | <0.01 | 0.4 | 6 | 5.11 | 4 | 20 | 0.71 | 0.43 | <0.5 | 22.5 | 0.062 |
| SC170272 | | <10 | 4.0 | 6.48 | 95.2 | <0.01 | 0.9 | 9 | 4.33 | 22 | 210 | 1.35 | 0.41 | 0.8 | 18.5 | 0.077 |
| SC170273 | | <10 | 4.2 | 6.70 | 201 | <0.01 | 0.5 | <3 | 4.58 | 6 | <20 | 1.26 | 0.67 | <0.5 | 21.4 | 0.165 |
| SC170274 | | <10 | 2.8 | 3.51 | 824 | <0.01 | 0.4 | 13 | 2.87 | 201 | <20 | 9.20 | 0.30 | 0.6 | 1.5 | 0.007 |
| SC170275 | | 90 | 112.5 | 1.45 | 885 | 0.01 | 134.0 | 8 | 2.72 | 1400 | 60 | 14300 | 0.69 | <0.5 | 53.2 | 0.280 |
| SC170276 | | <10 | 3.5 | 1.50 | 634 | 0.01 | <0.3 | 5 | 1.80 | 801 | 510 | 24.9 | 0.25 | <0.5 | 1.3 | <0.005 |
| SC170277 | | <10 | 6.3 | 3.25 | 118.0 | <0.01 | 0.3 | <3 | 1.98 | 11 | 20 | 2.94 | 0.23 | <0.5 | 9.3 | 0.043 |
| SC170278 | | <10 | 7.1 | 0.64 | 325 | 0.01 | 0.3 | <3 | 1.08 | 371 | 20 | 29.9 | 0.24 | <0.5 | 0.9 | <0.005 |
| SC170279 | | <10 | 1.8 | 1.50 | 873 | <0.01 | 0.7 | <3 | 1.81 | 452 | <20 | 21.1 | 0.28 | <0.5 | 0.7 | 0.005 |
| SC170280 | | <10 | 3.8 | 3.53 | 99.6 | <0.01 | 0.7 | <3 | 3.01 | 6 | 20 | 0.92 | 0.35 | <0.5 | 13.7 | 0.058 |
| SC170281 | | <10 | 2.9 | 6.51 | 110.0 | <0.01 | 0.3 | <3 | 4.95 | 6 | 20 | 1.17 | 0.44 | <0.5 | 21.4 | 0.092 |
| SC170282 | | <10 | 34.6 | 0.38 | 371 | 0.01 | <0.3 | 3 | 0.49 | 9 | 60 | 0.34 | 0.14 | <0.5 | 1.4 | 0.005 |
| SC170283 | | <10 | 35.2 | 2.03 | 531 | <0.01 | <0.3 | 4 | 1.52 | 44 | 40 | 4.82 | 0.13 | <0.5 | 0.5 | 0.006 |
| SC170284 | | <10 | 38.6 | 1.44 | 452 | 0.01 | <0.3 | 3 | 1.13 | 34 | 60 | 0.63 | 0.24 | <0.5 | 3.9 | 0.011 |
| SC170285 | | <10 | 22.6 | 0.50 | 725 | 0.01 | <0.3 | 3 | 0.54 | 53 | <20 | 2.97 | 0.12 | 1.0 | 2.2 | 0.011 |
| SC170286 | | <10 | 45.0 | 0.43 | 506 | <0.01 | <0.3 | 10 | 0.57 | 7 | 60 | 0.23 | 0.04 | 0.8 | 0.5 | 0.011 |
| SC170287 | | <10 | 45.5 | 3.77 | 886 | 0.01 | 1.1 | 3 | 3.10 | 649 | 30 | 85.7 | 0.38 | <0.5 | 2.6 | 0.023 |
| SC170288 | | <10 | 41.0 | 4.27 | 376 | <0.01 | 0.6 | 11 | 2.55 | 3 | 60 | 0.90 | 0.41 | <0.5 | 6.6 | 0.051 |
| SC170289 | | 10 | 21.1 | 24.2 | 845 | <0.01 | 0.4 | 4 | 14.55 | 261 | 100 | 18.40 | 1.25 | 1.1 | 28.4 | 0.099 |
| SC170290 | | <10 | 41.9 | 5.69 | 407 | <0.01 | <0.3 | 3 | 4.62 | 8 | 50 | 1.16 | 0.76 | 1.4 | 13.7 | 0.065 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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Plus Appendix Pages

Finalized Date: 25-OCT-2017

Account: TODRIV

CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | PGM-MS23 | PGM-MS23 | PGM-MS23 |
|--------------------|-----------------------------------|-------------|-------------|------------|----------|------------|------------|-------------|-----------|--------------|---------------|--------------|
| | | Tl | Tm | U | V | W | Y | Yb | Zn | Au | Pt | Pd |
| | | ppm 0.02 | ppm 0.01 | ppm 0.2 | ppm 1 | ppm 0.3 | ppm 0.2 | ppm 0.02 | ppm 10 | ppm 0.001 | ppm 0.0005 | ppm 0.001 |
| SC170251 | | 2.06 | 0.08 | 2.0 | 9 | 1.0 | 8.2 | 0.69 | 20 | 0.002 | <0.0005 | <0.001 |
| SC170252 | | 1.63 | 0.03 | 2.8 | 11 | 2.6 | 3.4 | 0.26 | 20 | 0.001 | <0.0005 | 0.001 |
| SC170253 | | 2.90 | 0.24 | 3.3 | 4 | 34.8 | 19.5 | 1.71 | 60 | 0.001 | <0.0005 | <0.001 |
| SC170254 | | 2.07 | 0.11 | 1.7 | 3 | 3.8 | 8.9 | 1.03 | 10 | 0.001 | <0.0005 | 0.001 |
| SC170255 | | 1.17 | 0.46 | 4.9 | 34 | 16.8 | 31.0 | 2.61 | 30 | 0.001 | <0.0005 | <0.001 |
| SC170256 | | 2.38 | 0.42 | 6.2 | 73 | 7.6 | 38.2 | 3.18 | 40 | 0.001 | <0.0005 | <0.001 |
| SC170257 | | 0.85 | 0.28 | 1.9 | 6 | 4.5 | 18.1 | 2.14 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170258 | | 1.47 | 0.04 | 1.3 | 6 | 2.6 | 3.4 | 0.37 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170259 | | 1.32 | 0.22 | 4.0 | 10 | 7.5 | 17.6 | 1.33 | 30 | 0.001 | <0.0005 | <0.001 |
| SC170260 | | 1.12 | 0.20 | 4.7 | 9 | 2.0 | 15.8 | 1.27 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170261 | | 3.45 | 0.19 | 11.8 | 13 | 26.2 | 21.1 | 1.03 | 80 | 0.001 | <0.0005 | <0.001 |
| SC170262 | | 2.60 | 0.27 | 8.2 | 18 | 5.3 | 19.3 | 1.45 | 20 | 0.001 | <0.0005 | <0.001 |
| SC170263 | | 2.77 | 0.14 | 12.6 | 16 | 16.7 | 13.4 | 0.78 | 60 | 0.001 | <0.0005 | <0.001 |
| SC170264 | | 6.24 | 0.06 | 5.8 | 10 | 7.9 | 4.3 | 0.43 | 50 | 0.001 | <0.0005 | <0.001 |
| SC170265 | | 5.66 | 0.01 | 3.3 | 4 | 10.4 | 3.3 | 0.17 | 50 | 0.001 | <0.0005 | 0.001 |
| SC170266 | | 2.30 | 0.04 | 4.7 | 9 | 3.4 | 5.7 | 0.36 | 20 | 0.001 | <0.0005 | 0.001 |
| SC170267 | | 2.14 | 0.18 | 7.7 | 18 | 2.7 | 15.8 | 1.11 | 30 | 0.001 | <0.0005 | 0.001 |
| SC170268 | | 1.19 | 0.04 | 1.8 | 2 | 10.7 | 4.5 | 0.49 | 60 | 0.001 | <0.0005 | 0.001 |
| SC170269 | | 0.95 | 0.11 | 7.6 | 2 | 11.2 | 8.0 | 0.71 | 20 | 0.001 | <0.0005 | <0.001 |
| SC170270 | | 2.05 | 0.03 | 1.4 | 1 | 16.4 | 2.7 | 0.12 | 40 | 0.001 | <0.0005 | <0.001 |
| SC170271 | | 0.65 | 0.06 | 3.5 | 4 | 1.1 | 9.5 | 0.46 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170272 | | 0.60 | 0.09 | 3.4 | 5 | 4.1 | 8.0 | 0.48 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170273 | | 1.26 | 0.34 | 5.8 | 18 | 3.6 | 24.2 | 2.51 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170274 | | 3.67 | 0.01 | 2.2 | 1 | 10.8 | 3.8 | 0.21 | 60 | 0.001 | <0.0005 | 0.001 |
| SC170275 | | 7.28 | 0.24 | 147.5 | 59 | 68.6 | 20.2 | 1.48 | 350 | 0.025 | 0.0033 | 0.003 |
| SC170276 | | 2.68 | 0.02 | 2.7 | <1 | 11.9 | 2.9 | 0.03 | 70 | 0.001 | <0.0005 | <0.001 |
| SC170277 | | 0.61 | 0.11 | 2.7 | 4 | 2.9 | 7.7 | 0.78 | 10 | 0.001 | <0.0005 | 0.001 |
| SC170278 | | 1.28 | 0.04 | 4.0 | <1 | 7.6 | 5.0 | 0.27 | 20 | 0.001 | <0.0005 | 0.001 |
| SC170279 | | 4.02 | 0.02 | 4.0 | <1 | 15.4 | 6.7 | 0.49 | 90 | 0.001 | <0.0005 | 0.001 |
| SC170280 | | 0.45 | 0.05 | 2.9 | 1 | 2.6 | 9.1 | 0.56 | <10 | 0.003 | <0.0005 | 0.001 |
| SC170281 | | 0.70 | 0.07 | 4.4 | 3 | 2.0 | 10.5 | 0.77 | <10 | 0.001 | 0.0005 | 0.001 |
| SC170282 | | 2.23 | 0.12 | 2.5 | <1 | 0.5 | 8.6 | 0.79 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170283 | | 2.97 | 0.03 | 1.2 | <1 | 5.3 | 3.7 | 0.37 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170284 | | 2.90 | 0.22 | 1.9 | <1 | 5.5 | 13.9 | 1.28 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170285 | | 4.38 | 0.09 | 3.9 | 2 | 2.3 | 5.8 | 0.62 | 80 | 0.001 | <0.0005 | <0.001 |
| SC170286 | | 2.81 | 0.02 | 0.7 | <1 | 0.7 | 2.0 | 0.25 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170287 | | 4.57 | 0.07 | 7.0 | 2 | 25.0 | 6.5 | 0.52 | 90 | 0.001 | <0.0005 | <0.001 |
| SC170288 | | 1.98 | 0.22 | 2.3 | 6 | 2.0 | 14.9 | 1.19 | 20 | 0.001 | <0.0005 | <0.001 |
| SC170289 | | 4.43 | 0.20 | 7.8 | 12 | 19.9 | 21.8 | 1.69 | 70 | 0.001 | <0.0005 | <0.001 |
| SC170290 | | 2.01 | 0.43 | 5.2 | 8 | 2.2 | 33.9 | 3.28 | 30 | 0.001 | <0.0005 | <0.001 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | WEI-21 Recvd Wt. kg 0.02 | PUL-QC Pass75um % 0.01 | ME-MS89L Ag ppm 5 | ME-MS89L As ppm 4 | ME-MS89L Ba ppm 2 | ME-MS89L Be ppm 0.4 | ME-MS89L Bi ppm 0.1 | ME-MS89L Ca % 0.1 | ME-MS89L Cd ppm 0.8 | ME-MS89L Ce ppm 0.2 | ME-MS89L Co ppm 0.5 | ME-MS89L Cs ppm 0.1 | ME-MS89L Cu ppm 20 | ME-MS89L Dy ppm 0.03 | ME-MS89L Er ppm 0.02 |
|--------------------|-----------------------------------|-----------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-------------------------------|-------------------------------|
| SC170291 | | 1.20 | | <5 | 18 | 283 | 7.9 | 0.7 | 0.3 | <0.8 | 10.1 | 1.1 | 216 | <20 | 1.20 | 0.46 |
| SC170292 | | 1.65 | | 9 | 5 | 228 | 4.6 | 0.7 | 0.1 | <0.8 | 28.4 | 1.5 | 78.9 | <20 | 0.95 | 0.29 |
| SC170293 | | 1.26 | | 7 | 4 | 520 | 0.7 | 0.8 | <0.1 | <0.8 | 9.8 | 1.2 | 11.2 | <20 | 1.97 | 0.99 |
| SC170294 | | 1.13 | | 9 | 11 | 36 | 2.9 | 0.6 | 0.1 | <0.8 | 10.9 | 0.7 | 98.9 | <20 | 0.58 | 0.11 |
| SC170295 | | 0.55 | | 8 | <4 | 17 | 0.8 | 0.5 | 0.1 | <0.8 | 2.0 | 0.7 | 1.7 | <20 | 0.12 | <0.02 |
| SC170296 | | 0.80 | | 9 | 9 | 187 | 3.6 | 0.9 | <0.1 | <0.8 | 70.7 | 1.7 | 30.0 | 20 | 1.71 | 0.96 |
| SC170297 | | 0.78 | | 13 | 8 | 147 | 3.4 | 0.8 | <0.1 | 1.0 | 12.8 | 1.4 | 12.3 | <20 | 0.67 | 0.32 |
| SC170298 | | 1.12 | | 7 | 4 | 166 | 1.6 | 0.7 | 0.1 | <0.8 | 31.7 | 3.5 | 23.1 | <20 | 1.87 | 0.65 |
| SC170299 | | 1.21 | 99.4 | 10 | <4 | 145 | 2.4 | 0.7 | <0.1 | <0.8 | 16.5 | 2.4 | 19.8 | <20 | 1.28 | 0.58 |
| SC170300 | | 0.05 | | <5 | 397 | 255 | 83.0 | 439 | 1.6 | <0.8 | 10.9 | 48.5 | 219 | 330 | 3.36 | 1.77 |
| SC170301 | | 1.55 | | 6 | 5 | 140 | 2.9 | 1.3 | <0.1 | <0.8 | 29.8 | 3.8 | 16.0 | <20 | 2.05 | 0.90 |
| SC170302 | | 0.84 | | <5 | <4 | 367 | 7.3 | 0.8 | <0.1 | <0.8 | 20.6 | 1.2 | 98.4 | 30 | 1.71 | 0.61 |
| SC170303 | | 1.80 | | 10 | 6 | 304 | 2.7 | 0.9 | <0.1 | <0.8 | 27.3 | 1.2 | 9.5 | 20 | 1.87 | 0.71 |
| SC170304 | | 1.05 | | 9 | 8 | 216 | 131.5 | 1.4 | 0.1 | <0.8 | 29.1 | 4.9 | 652 | <20 | 2.64 | 1.00 |
| SC170305 | | 1.36 | | <5 | <4 | 55 | 6.3 | 0.3 | <0.1 | <0.8 | 2.8 | 0.7 | 69.2 | <20 | 0.18 | 0.10 |
| SC170306 | | 1.22 | | 8 | 7 | 437 | 0.4 | 2.3 | <0.1 | <0.8 | 6.2 | 1.0 | 17.1 | <20 | 0.49 | 0.26 |
| SC170307 | | 1.40 | | 8 | 5 | 209 | 8.0 | 0.7 | <0.1 | <0.8 | 13.6 | 1.4 | 62.9 | <20 | 0.89 | 0.48 |
| SC170308 | | 1.04 | | <5 | 7 | 167 | 2.9 | 0.4 | <0.1 | <0.8 | 28.5 | 0.9 | 4.2 | 50 | 0.69 | 0.13 |
| SC170309 | | 1.13 | | <5 | 4 | 318 | 1.6 | 0.6 | <0.1 | <0.8 | 11.6 | 1.2 | 41.4 | <20 | 1.30 | 0.77 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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Finalized Date: 25-OCT-2017

Account: TODRIV

CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | ME-MS89L Eu ppm 0.03 | ME-MS89L Fe % 0.05 | ME-MS89L Ga ppm 0.5 | ME-MS89L Gd ppm 0.03 | ME-MS89L Ge ppm 0.5 | ME-MS89L Ho ppm 0.01 | ME-MS89L In ppm 0.3 | ME-MS89L K % 0.05 | ME-MS89L La ppm 0.08 | ME-MS89L Li ppm 2 | ME-MS89L Lu ppm 0.05 | ME-MS89L Mn ppm 10 | ME-MS89L Mo ppm 2 | ME-MS89L Nb ppm 0.8 | ME-MS89L Nd ppm 0.07 |
|--------------------|-----------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|-----------------------------|----------------------------|------------------------------|-------------------------------|
| SC170291 | | 0.27 | 1.44 | 28.8 | 2.73 | 6.5 | 0.13 | <0.3 | 6.07 | 3.98 | 41 | <0.05 | 310 | <2 | 78.7 | 5.58 |
| SC170292 | | 0.27 | 1.04 | 17.1 | 1.49 | 4.3 | 0.09 | <0.3 | 6.02 | 12.45 | 40 | <0.05 | 100 | <2 | 30.2 | 9.13 |
| SC170293 | | 0.57 | 0.71 | 21.2 | 1.00 | 2.5 | 0.42 | <0.3 | 8.33 | 5.40 | 15 | 0.11 | 40 | <2 | 4.3 | 3.97 |
| SC170294 | | 0.16 | 1.02 | 9.7 | 0.94 | 2.4 | 0.09 | <0.3 | 1.07 | 8.11 | 162 | <0.05 | 230 | <2 | 25.1 | 6.27 |
| SC170295 | | <0.03 | 0.67 | 2.3 | 0.14 | 2.4 | 0.02 | <0.3 | 0.11 | 0.98 | 82 | <0.05 | 100 | <2 | 1.5 | 0.64 |
| SC170296 | | 0.33 | 1.52 | 15.2 | 2.21 | 1.1 | 0.33 | <0.3 | 4.24 | 35.5 | 27 | 0.07 | 90 | 2 | 23.6 | 27.3 |
| SC170297 | | 0.09 | 1.42 | 4.8 | 0.57 | 0.7 | 0.15 | <0.3 | 0.86 | 6.09 | 94 | <0.05 | 140 | 2 | 3.7 | 5.62 |
| SC170298 | | 0.43 | 1.94 | 9.5 | 1.71 | <0.5 | 0.24 | <0.3 | 1.69 | 14.35 | 23 | 0.09 | 150 | <2 | 5.5 | 13.25 |
| SC170299 | | 0.29 | 1.35 | 10.0 | 1.48 | 0.9 | 0.21 | <0.3 | 1.79 | 7.98 | 22 | 0.08 | 160 | <2 | 5.9 | 7.53 |
| SC170300 | | 0.46 | 4.28 | 77.0 | 3.00 | 9.2 | 0.54 | <0.3 | 0.71 | 5.62 | 13600 | 0.11 | 8520 | 15 | 2600 | 5.62 |
| SC170301 | | 0.40 | 1.67 | 10.1 | 3.09 | 0.9 | 0.31 | <0.3 | 1.82 | 12.05 | 42 | 0.17 | 160 | <2 | 7.3 | 15.00 |
| SC170302 | | 0.77 | 1.62 | 26.6 | 2.48 | 7.3 | 0.22 | <0.3 | 3.52 | 10.05 | 35 | <0.05 | 190 | <2 | 75.6 | 10.70 |
| SC170303 | | 0.37 | 3.52 | 8.4 | 2.60 | <0.5 | 0.25 | <0.3 | 1.34 | 14.65 | 39 | <0.05 | 70 | <2 | 6.0 | 14.55 |
| SC170304 | | 0.39 | 1.63 | 74.0 | 3.72 | 8.1 | 0.43 | <0.3 | 6.14 | 11.45 | 710 | <0.05 | 1260 | <2 | 133.0 | 18.80 |
| SC170305 | | 0.03 | 1.01 | 26.0 | 0.30 | 1.9 | 0.01 | <0.3 | 3.18 | 1.61 | 95 | <0.05 | 160 | <2 | 38.5 | 1.51 |
| SC170306 | | 0.68 | 0.92 | 15.2 | 0.55 | 1.2 | 0.08 | <0.3 | 8.62 | 3.68 | 8 | <0.05 | 100 | <2 | 2.0 | 2.41 |
| SC170307 | | 0.36 | 1.28 | 24.4 | 1.96 | 4.5 | 0.14 | <0.3 | 3.34 | 5.55 | 57 | <0.05 | 180 | <2 | 52.5 | 6.76 |
| SC170308 | | 0.45 | 1.49 | 7.8 | 1.59 | 0.5 | 0.08 | <0.3 | 0.70 | 14.50 | 60 | <0.05 | 90 | <2 | 2.7 | 12.25 |
| SC170309 | | 0.39 | 1.26 | 19.1 | 1.01 | 0.8 | 0.23 | <0.3 | 6.26 | 5.72 | 24 | 0.10 | 80 | <2 | 11.5 | 3.94 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L |
|--------------------|-----------------------------------|-----------|------------|-------------|------------|-------------|------------|----------|-------------|----------|-----------|-------------|-------------|------------|------------|------------|
| | | Ni | Pb | Pr | Rb | Re | Sb | Se | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti |
| | | ppm 10 | ppm 0.5 | ppm 0.03 | ppm 0.5 | ppm 0.01 | ppm 0.3 | ppm 3 | ppm 0.04 | ppm 3 | ppm 20 | ppm 0.04 | ppm 0.01 | ppm 0.5 | ppm 0.1 | % 0.005 |
| SC170291 | | <10 | 10.6 | 1.30 | 1255 | 0.01 | 0.6 | 7 | 2.77 | 1260 | 20 | 81.9 | 0.30 | 0.7 | 0.9 | 0.011 |
| SC170292 | | <10 | 16.7 | 3.00 | 804 | 0.03 | <0.3 | 18 | 1.75 | 154 | 30 | 17.15 | 0.15 | 0.5 | 0.9 | 0.006 |
| SC170293 | | <10 | 46.1 | 1.14 | 558 | <0.01 | <0.3 | 8 | 0.92 | 4 | 70 | 0.48 | 0.31 | <0.5 | 3.5 | 0.030 |
| SC170294 | | <10 | 5.9 | 1.97 | 398 | <0.01 | 0.5 | <3 | 1.08 | 447 | <20 | 11.35 | 0.14 | <0.5 | 0.6 | <0.005 |
| SC170295 | | <10 | 2.5 | 0.30 | 10.6 | <0.01 | 2.1 | 14 | 0.30 | <3 | <20 | 0.54 | 0.01 | <0.5 | 0.5 | <0.005 |
| SC170296 | | <10 | 24.5 | 8.03 | 282 | <0.01 | 0.5 | 12 | 3.09 | <3 | 30 | 3.11 | 0.39 | 1.4 | 15.6 | 0.081 |
| SC170297 | | <10 | 10.7 | 1.38 | 53.4 | <0.01 | 1.7 | 9 | 0.55 | <3 | <20 | 1.54 | 0.08 | <0.5 | 2.6 | 0.016 |
| SC170298 | | <10 | 3.2 | 3.76 | 157.5 | <0.01 | 0.5 | <3 | 1.91 | <3 | 20 | 0.76 | 0.31 | <0.5 | 7.4 | 0.142 |
| SC170299 | | <10 | 2.3 | 2.01 | 145.5 | <0.01 | <0.3 | <3 | 1.63 | <3 | <20 | 1.33 | 0.16 | 0.7 | 7.8 | 0.142 |
| SC170300 | | 90 | 113.0 | 1.47 | 903 | 0.04 | 129.5 | 3 | 2.69 | 1350 | 60 | 13450 | 0.69 | <0.5 | 50.6 | 0.282 |
| SC170301 | | <10 | 2.7 | 3.84 | 159.5 | <0.01 | 0.3 | 10 | 3.38 | <3 | 20 | 8.48 | 0.32 | 0.6 | 8.1 | 0.168 |
| SC170302 | | <10 | 4.9 | 2.63 | 593 | <0.01 | 0.5 | 7 | 2.47 | 703 | 20 | 94.5 | 0.32 | 0.8 | 3.4 | 0.056 |
| SC170303 | | 10 | 14.1 | 3.65 | 95.9 | 0.01 | 0.7 | 5 | 3.19 | 3 | <20 | 1.16 | 0.31 | <0.5 | 9.1 | 0.080 |
| SC170304 | | <10 | 9.0 | 4.72 | 2760 | <0.01 | <0.3 | <3 | 3.85 | 440 | 20 | 65.0 | 0.50 | 0.9 | 1.2 | 0.022 |
| SC170305 | | <10 | 3.4 | 0.35 | 717 | 0.01 | 0.5 | 8 | 0.21 | 228 | <20 | 15.10 | 0.02 | 0.9 | 1.1 | 0.005 |
| SC170306 | | <10 | 51.8 | 0.73 | 531 | 0.01 | <0.3 | 3 | 0.63 | 4 | 50 | 0.30 | 0.07 | 1.1 | 1.4 | 0.010 |
| SC170307 | | <10 | 7.3 | 1.83 | 607 | <0.01 | <0.3 | 15 | 1.86 | 344 | 20 | 19.25 | 0.25 | 0.6 | 1.2 | 0.015 |
| SC170308 | | <10 | 70.1 | 3.47 | 60.3 | <0.01 | 1.3 | 16 | 1.92 | <3 | 20 | 0.49 | 0.16 | 1.1 | 4.2 | 0.020 |
| SC170309 | | <10 | 45.1 | 1.31 | 412 | <0.01 | 0.3 | <3 | 1.18 | 4 | 40 | 1.23 | 0.18 | <0.5 | 5.5 | 0.095 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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



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Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 25-OCT-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17205417

| Sample Description | Method Analyte Units LOR | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | ME-MS89L | PGM-MS23 | PGM-MS23 | PGM-MS23 |
|--------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Tl | Tm | U | V | W | Y | Yb | Zn | Au | Pt | Pd |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.01 | 0.2 | 1 | 0.3 | 0.2 | 0.02 | 10 | 0.001 | 0.0005 | 0.001 |
| SC170291 | | 6.75 | 0.02 | 5.6 | 1 | 29.0 | 5.7 | 0.42 | 60 | 0.001 | <0.0005 | <0.001 |
| SC170292 | | 5.00 | 0.02 | 2.6 | 3 | 6.1 | 3.6 | 0.29 | 20 | 0.001 | <0.0005 | <0.001 |
| SC170293 | | 3.02 | 0.14 | 1.9 | 5 | 1.0 | 11.9 | 1.08 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170294 | | 1.82 | 0.01 | 9.2 | 3 | 6.5 | 3.0 | 0.09 | 40 | 0.001 | <0.0005 | <0.001 |
| SC170295 | | 0.05 | <0.01 | 0.6 | 2 | 0.4 | 0.7 | <0.02 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170296 | | 1.69 | 0.12 | 3.4 | 5 | 9.5 | 8.2 | 0.82 | 30 | 0.001 | <0.0005 | <0.001 |
| SC170297 | | 0.26 | 0.02 | 3.8 | 11 | 5.1 | 3.4 | 0.16 | 10 | 0.003 | <0.0005 | <0.001 |
| SC170298 | | 0.58 | 0.08 | 3.3 | 26 | 7.8 | 7.1 | 0.63 | 20 | 0.001 | <0.0005 | 0.001 |
| SC170299 | | 0.54 | 0.05 | 2.8 | 35 | 3.7 | 6.3 | 0.63 | 20 | 0.001 | <0.0005 | <0.001 |
| SC170300 | | 7.21 | 0.16 | 143.0 | 62 | 66.5 | 19.0 | 1.52 | 340 | 0.021 | 0.0030 | 0.003 |
| SC170301 | | 0.57 | 0.13 | 3.4 | 35 | 6.4 | 9.6 | 1.19 | 30 | 0.004 | 0.0005 | 0.001 |
| SC170302 | | 2.47 | 0.07 | 8.8 | 16 | 34.4 | 7.6 | 0.47 | 60 | 0.001 | <0.0005 | <0.001 |
| SC170303 | | 0.35 | 0.07 | 4.5 | 22 | 33.8 | 6.6 | 0.44 | 30 | 0.002 | <0.0005 | 0.001 |
| SC170304 | | 12.90 | 0.10 | 8.7 | 3 | 37.3 | 10.7 | 0.38 | 300 | 0.001 | <0.0005 | 0.001 |
| SC170305 | | 2.78 | <0.01 | 1.1 | 3 | 14.0 | 0.7 | <0.02 | 50 | 0.001 | <0.0005 | <0.001 |
| SC170306 | | 3.12 | 0.05 | 1.3 | 2 | 1.3 | 2.6 | 0.29 | 10 | 0.001 | <0.0005 | <0.001 |
| SC170307 | | 3.53 | 0.03 | 1.9 | 2 | 16.5 | 3.6 | 0.21 | 70 | 0.001 | <0.0005 | 0.001 |
| SC170308 | | 0.34 | 0.01 | 2.8 | 26 | 19.0 | 1.9 | 0.14 | 20 | 0.001 | <0.0005 | <0.001 |
| SC170309 | | 2.31 | 0.12 | 1.2 | 10 | 4.0 | 8.1 | 0.73 | 20 | 0.001 | <0.0005 | 0.001 |

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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CERTIFICATE OF ANALYSIS AD17205417

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia
PGM-MS23

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.

CRU-21

LEV-01

LOG-22

LOG-24

PUL-21

PUL-QC

WEI-21

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

ME-MS89L