



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016-510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

Page: 1  
Finalized Date: 2-AUG-2012  
Account: RANSIL

**CERTIFICATE WH12162406**

Project: KEG (Main - Group 1)  
P.O. No.: Batch 38  
This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 12-JUL-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                        |
|----------|------------------------------------|
| WEI-21   | Received Sample Weight             |
| LOG-22   | Sample login - Rcd w/o BarCode     |
| CRU-31   | Fine crushing - 70% <2mm           |
| CRU-QC   | Crushing QC Test                   |
| SPL-21   | Split sample - riffle splitter     |
| PUL-QC   | Pulverizing QC Test                |
| PUL-31   | Pulverize split to 85% <75 um      |
| LOG-22d  | Sample login - Rcd w/o BarCode dup |
| SPL-21d  | Split sample - duplicate           |
| PUL-31d  | Pulverize Split - duplicate        |
| LOG-23   | Pulp Login - Rcvd with Barcode     |

**ANALYTICAL PROCEDURES**

| ALS CODE | DESCRIPTION                    | INSTRUMENT |
|----------|--------------------------------|------------|
| Au-AA24  | Au 50g FA AA finish            | AAS        |
| ME-OG62  | Ore Grade Elements - Four Acid | ICP-AES    |
| Sn-XRF05 | Sn-Trace Level XRF Analysis    | XRF        |
| ME-MS61  | 48 element four acid ICP-MS    |            |
| Zn-OG62  | Ore Grade Zn - Four Acid       | VARIABLE   |

To: **SILVER RANGE RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 2-AUG-2012  
Account: RANSIL

Project: KEG (Main - Group 1)

**CERTIFICATE OF ANALYSIS WH12162406**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21<br>Recvd Wt.<br>kg | Au-AA24<br>Au<br>ppm | Sn-XRF05<br>Sn<br>ppm | ME-MS61<br>Ag<br>ppm | ME-MS61<br>Al<br>% | ME-MS61<br>As<br>ppm | ME-MS61<br>Ba<br>ppm | ME-MS61<br>Be<br>ppm | ME-MS61<br>Bi<br>ppm | ME-MS61<br>Ca<br>% | ME-MS61<br>Cd<br>ppm | ME-MS61<br>Ce<br>ppm | ME-MS61<br>Co<br>ppm | ME-MS61<br>Cr<br>ppm | ME-MS61<br>Cs<br>ppm |
|--------------------|-----------------------------------|---------------------------|----------------------|-----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                    |                                   | 0.02                      | 0.005                | 5                     | 0.01                 | 0.01               | 0.2                  | 10                   | 0.05                 | 0.01                 | 0.01               | 0.02                 | 0.01                 | 0.1                  | 1                    | 0.05                 |
| K286585            |                                   | 8.43                      | 0.006                | 15                    | 0.55                 | 4.56               | 8.9                  | 690                  | 1.44                 | 15.70                | 4.69               | 10.90                | 48.6                 | 17.2                 | 62                   | 5.27                 |
| K286586            |                                   | 7.69                      | 0.005                | 10                    | 0.37                 | 4.81               | 18.9                 | 1130                 | 1.63                 | 7.84                 | 4.60               | 8.69                 | 72.6                 | 13.3                 | 74                   | 5.04                 |
| K286587            |                                   | 8.43                      | 0.005                | 8                     | 0.28                 | 5.23               | 7.2                  | 1070                 | 1.53                 | 5.36                 | 2.82               | 0.96                 | 52.5                 | 11.6                 | 89                   | 8.37                 |
| K286588            |                                   | 7.76                      | 0.017                | 7                     | 0.20                 | 4.67               | 2.6                  | 970                  | 1.33                 | 8.82                 | 2.86               | 0.49                 | 48.1                 | 9.8                  | 71                   | 6.28                 |
| K286589            |                                   | 0.27                      | 0.005                | 167                   | 13.95                | 4.45               | 121.0                | 1460                 | 1.25                 | 48.7                 | 7.90               | 58.6                 | 43.9                 | 7.0                  | 67                   | 5.45                 |
| K286590            |                                   | 8.22                      | 0.015                | 5                     | 0.28                 | 5.25               | 4.7                  | 1050                 | 1.65                 | 11.75                | 3.10               | 1.80                 | 51.9                 | 10.8                 | 79                   | 7.60                 |
| K286591            |                                   | 7.63                      | 0.009                | 7                     | 0.28                 | 5.32               | 6.1                  | 1270                 | 1.76                 | 11.50                | 3.58               | 1.54                 | 55.4                 | 9.8                  | 97                   | 5.66                 |
| K286593            |                                   | 6.10                      | 0.007                | 11                    | 0.28                 | 5.14               | 5.7                  | 1370                 | 1.57                 | 18.70                | 3.62               | 2.94                 | 57.5                 | 9.7                  | 90                   | 5.32                 |
| K286594            |                                   | 3.05                      | 0.028                | 24                    | 0.72                 | 4.06               | 2.1                  | 210                  | 1.27                 | 60.6                 | 6.59               | 1.35                 | 43.1                 | 11.3                 | 49                   | 2.02                 |
| K286595            |                                   | 2.97                      | <0.005               | <5                    | 0.03                 | 0.08               | <5                   | 20                   | 0.10                 | 0.16                 | 20.1               | 0.07                 | 1.26                 | 0.6                  | <1                   | 0.13                 |
| K286596            |                                   | 7.79                      | 0.013                | 13                    | 0.44                 | 4.49               | 4.6                  | 580                  | 1.38                 | 29.2                 | 5.53               | 1.09                 | 45.7                 | 7.6                  | 83                   | 2.48                 |
| K286597            |                                   | 8.12                      | 0.017                | 17                    | 0.48                 | 4.22               | 2.2                  | 560                  | 1.33                 | 32.0                 | 5.57               | 1.23                 | 42.6                 | 7.2                  | 99                   | 2.26                 |
| K286598            |                                   | 8.31                      | 0.021                | 28                    | 0.51                 | 4.35               | 2.4                  | 420                  | 1.42                 | 46.2                 | 6.17               | 1.27                 | 48.8                 | 7.3                  | 66                   | 2.97                 |
| K286599            |                                   | 3.96                      | 0.014                | 17                    | 0.40                 | 5.88               | 61.3                 | 970                  | 1.72                 | 23.9                 | 5.61               | 0.47                 | 59.4                 | 6.7                  | 83                   | 3.20                 |
| K286600            |                                   | 4.70                      | 0.013                | 31                    | 0.43                 | 4.49               | 4.0                  | 770                  | 1.33                 | 30.0                 | 6.53               | 0.73                 | 48.0                 | 5.4                  | 68                   | 4.11                 |
| K286601            |                                   | 7.95                      | 0.019                | 31                    | 0.34                 | 4.42               | 68.3                 | 1770                 | 1.38                 | 35.2                 | 6.36               | 1.21                 | 52.4                 | 4.5                  | 63                   | 4.04                 |
| K286602            |                                   | 0.27                      | 0.018                | 271                   | 25.7                 | 4.15               | 1210                 | 390                  | 1.17                 | 97.0                 | 7.95               | 290                  | 46.4                 | 13.5                 | 50                   | 4.80                 |
| K286603            |                                   | 8.07                      | 0.020                | 19                    | 0.38                 | 5.43               | 6.8                  | 1070                 | 1.58                 | 32.0                 | 4.84               | 0.42                 | 56.4                 | 5.6                  | 107                  | 3.55                 |
| K286604            |                                   | 8.59                      | 0.033                | 27                    | 0.75                 | 4.55               | 2.6                  | 320                  | 1.43                 | 56.0                 | 6.52               | 1.26                 | 51.4                 | 8.8                  | 63                   | 4.73                 |
| K286605            |                                   | 6.36                      | 0.017                | 14                    | 0.60                 | 4.94               | 92.0                 | 450                  | 1.45                 | 24.4                 | 6.58               | 1.19                 | 50.4                 | 9.0                  | 69                   | 5.50                 |
| K286606            |                                   | 2.97                      | 0.047                | 41                    | 1.06                 | 3.60               | 1.9                  | 220                  | 1.18                 | 83.6                 | 5.35               | 11.35                | 37.9                 | 12.0                 | 53                   | 2.29                 |
| K286607            |                                   | 3.04                      | <0.005               | <5                    | 0.03                 | 0.09               | <5                   | 20                   | 0.06                 | 0.23                 | 19.95              | 0.08                 | 1.49                 | 0.7                  | 4                    | 0.22                 |
| K286608            |                                   | 6.67                      | 0.021                | 20                    | 0.53                 | 4.30               | 4.3                  | 410                  | 1.23                 | 30.2                 | 5.70               | 7.79                 | 50.9                 | 8.0                  | 68                   | 3.30                 |
| K286609            |                                   | 7.98                      | 0.019                | 15                    | 0.49                 | 4.27               | 5.2                  | 430                  | 1.23                 | 33.9                 | 6.06               | 8.12                 | 44.7                 | 7.9                  | 78                   | 4.05                 |
| K286610            |                                   | 7.81                      | 0.016                | 19                    | 0.67                 | 4.56               | 11.8                 | 250                  | 1.59                 | 33.8                 | 5.79               | 4.02                 | 51.6                 | 11.4                 | 77                   | 2.25                 |
| K286611            |                                   | 7.87                      | 0.013                | 10                    | 0.28                 | 5.08               | 10.7                 | 720                  | 1.44                 | 10.35                | 3.14               | 0.59                 | 49.7                 | 10.6                 | 83                   | 7.10                 |
| K286612            |                                   | 7.58                      | 0.014                | 6                     | 0.26                 | 5.12               | 9.7                  | 1400                 | 1.38                 | 6.83                 | 3.16               | 0.16                 | 53.1                 | 11.0                 | 69                   | 7.01                 |
| K286613            |                                   | 3.17                      | 0.017                | 7                     | 0.32                 | 5.07               | 11.0                 | 1260                 | 1.54                 | 8.36                 | 3.19               | 0.16                 | 58.4                 | 12.2                 | 67                   | 7.31                 |
| K286614            |                                   | 8.02                      | 0.011                | 6                     | 0.24                 | 5.17               | 8.1                  | 1590                 | 1.27                 | 9.64                 | 2.43               | 0.12                 | 53.7                 | 9.7                  | 67                   | 8.25                 |
| K286615            |                                   | 7.82                      | 0.026                | 10                    | 0.33                 | 5.07               | 9.1                  | 920                  | 1.51                 | 18.60                | 2.83               | 0.29                 | 55.2                 | 12.2                 | 78                   | 9.27                 |
| K286616            |                                   | 7.13                      | 0.019                | 5                     | 0.27                 | 4.71               | 7.5                  | 1290                 | 1.37                 | 5.41                 | 3.43               | 0.25                 | 54.5                 | 11.0                 | 61                   | 6.56                 |
| K286617            |                                   | 8.61                      | 0.022                | 10                    | 0.28                 | 5.10               | 15.5                 | 1520                 | 1.49                 | 7.58                 | 2.97               | 0.32                 | 47.9                 | 13.5                 | 83                   | 7.81                 |
| K286618            |                                   | 8.25                      | 0.021                | 7                     | 0.33                 | 4.90               | 15.2                 | 1080                 | 1.54                 | 24.3                 | 3.45               | 0.26                 | 58.0                 | 17.5                 | 71                   | 7.27                 |
| K286619            |                                   | <0.02                     | 0.016                | 5                     | 0.32                 | 4.84               | 13.1                 | 1190                 | 1.53                 | 13.75                | 3.43               | 0.27                 | 55.8                 | 16.9                 | 70                   | 7.04                 |
| K286620            |                                   | 7.91                      | 0.019                | 5                     | 0.21                 | 4.62               | 4.6                  | 1180                 | 1.37                 | 3.04                 | 2.61               | 0.22                 | 52.4                 | 10.0                 | 61                   | 7.35                 |
| K286621            |                                   | 7.99                      | 0.011                | 6                     | 0.27                 | 5.38               | 5.1                  | 1270                 | 1.63                 | 9.14                 | 2.78               | 0.37                 | 54.9                 | 13.5                 | 87                   | 8.67                 |



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**CERTIFICATE OF ANALYSIS WH12162406**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS61<br>Cu<br>ppm<br>0.2 | ME-MS61<br>Fe<br>%<br>0.01 | ME-MS61<br>Ga<br>ppm<br>0.05 | ME-MS61<br>Ge<br>ppm<br>0.05 | ME-MS61<br>Hf<br>ppm<br>0.1 | ME-MS61<br>In<br>ppm<br>0.005 | ME-MS61<br>K<br>%<br>0.01 | ME-MS61<br>La<br>ppm<br>0.5 | ME-MS61<br>Li<br>ppm<br>0.2 | ME-MS61<br>Mg<br>%<br>0.01 | ME-MS61<br>Mn<br>ppm<br>5 | ME-MS61<br>Mo<br>ppm<br>0.05 | ME-MS61<br>Na<br>%<br>0.01 | ME-MS61<br>Nb<br>ppm<br>0.1 | ME-MS61<br>Ni<br>ppm<br>0.2 |
|--------------------|-----------------------------------|-----------------------------|----------------------------|------------------------------|------------------------------|-----------------------------|-------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|
| K286585            |                                   | 498                         | 4.97                       | 13.20                        | 0.18                         | 1.6                         | 0.280                         | 1.59                      | 28.9                        | 11.6                        | 3.36                       | 531                       | 43.3                         | 0.36                       | 8.7                         | 80.5                        |
| K286586            |                                   | 339                         | 3.64                       | 14.20                        | 0.22                         | 1.9                         | 0.207                         | 1.99                      | 53.4                        | 10.8                        | 2.45                       | 374                       | 62.3                         | 0.37                       | 9.5                         | 106.0                       |
| K286587            |                                   | 227                         | 2.97                       | 14.10                        | 0.14                         | 2.0                         | 0.032                         | 2.34                      | 27.7                        | 16.8                        | 1.86                       | 228                       | 34.8                         | 0.46                       | 10.2                        | 84.7                        |
| K286588            |                                   | 204                         | 2.62                       | 12.25                        | 0.13                         | 1.7                         | 0.044                         | 2.15                      | 25.0                        | 14.7                        | 1.98                       | 267                       | 1.09                         | 0.36                       | 9.6                         | 60.6                        |
| K286589            |                                   | 752                         | 3.34                       | 11.50                        | 0.18                         | 1.4                         | 2.35                          | 1.84                      | 23.5                        | 36.8                        | 2.12                       | 1730                      | 13.60                        | 0.23                       | 9.4                         | 49.2                        |
| K286590            |                                   | 271                         | 2.81                       | 15.50                        | 0.16                         | 1.9                         | 0.067                         | 2.33                      | 27.1                        | 17.8                        | 2.21                       | 249                       | 3.21                         | 0.37                       | 8.9                         | 86.5                        |
| K286591            |                                   | 267                         | 2.80                       | 14.80                        | 0.17                         | 2.3                         | 0.060                         | 2.22                      | 31.2                        | 19.6                        | 2.26                       | 244                       | 10.30                        | 0.33                       | 8.9                         | 91.8                        |
| K286593            |                                   | 261                         | 2.79                       | 14.00                        | 0.17                         | 1.9                         | 0.089                         | 2.31                      | 30.5                        | 16.8                        | 2.23                       | 259                       | 11.75                        | 0.30                       | 9.2                         | 76.4                        |
| K286594            |                                   | 881                         | 5.57                       | 11.40                        | 0.18                         | 1.6                         | 0.073                         | 1.69                      | 20.9                        | 10.7                        | 4.63                       | 539                       | 2.28                         | 0.16                       | 7.9                         | 41.3                        |
| K286595            |                                   | 4.3                         | 0.42                       | 0.23                         | 0.08                         | <0.1                        | <0.005                        | 0.03                      | 0.6                         | 1.3                         | 12.40                      | 175                       | 0.29                         | 0.01                       | 0.2                         | 1.9                         |
| K286596            |                                   | 498                         | 3.65                       | 11.55                        | 0.16                         | 1.7                         | 0.046                         | 1.62                      | 26.2                        | 9.6                         | 2.75                       | 370                       | 9.20                         | 0.20                       | 7.6                         | 45.5                        |
| K286597            |                                   | 611                         | 3.92                       | 10.50                        | 0.17                         | 1.6                         | 0.066                         | 1.25                      | 24.4                        | 8.9                         | 2.07                       | 329                       | 16.55                        | 0.19                       | 7.0                         | 46.0                        |
| K286598            |                                   | 598                         | 4.10                       | 11.70                        | 0.18                         | 1.7                         | 0.065                         | 1.55                      | 27.9                        | 12.7                        | 2.46                       | 459                       | 8.60                         | 0.19                       | 8.4                         | 33.3                        |
| K286599            |                                   | 376                         | 2.90                       | 14.40                        | 0.19                         | 2.2                         | 0.042                         | 2.83                      | 35.7                        | 16.2                        | 2.23                       | 361                       | 10.05                        | 0.25                       | 9.3                         | 50.4                        |
| K286600            |                                   | 454                         | 3.22                       | 11.65                        | 0.18                         | 1.7                         | 0.093                         | 3.64                      | 24.4                        | 16.5                        | 3.19                       | 647                       | 6.73                         | 0.18                       | 8.6                         | 35.9                        |
| K286601            |                                   | 288                         | 2.43                       | 11.15                        | 0.17                         | 1.7                         | 0.097                         | 3.53                      | 28.4                        | 13.0                        | 3.07                       | 608                       | 8.85                         | 0.18                       | 9.0                         | 34.1                        |
| K286602            |                                   | 1840                        | 5.73                       | 12.45                        | 0.25                         | 1.3                         | 22.3                          | 1.38                      | 23.3                        | 33.6                        | 2.09                       | 2550                      | 16.00                        | 0.17                       | 8.0                         | 52.4                        |
| K286603            |                                   | 357                         | 2.56                       | 13.65                        | 0.17                         | 2.1                         | 0.043                         | 2.70                      | 29.7                        | 9.8                         | 1.90                       | 336                       | 17.20                        | 0.22                       | 10.2                        | 53.1                        |
| K286604            |                                   | 829                         | 4.63                       | 11.70                        | 0.18                         | 1.7                         | 0.062                         | 2.45                      | 24.2                        | 18.9                        | 3.32                       | 547                       | 8.17                         | 0.19                       | 8.6                         | 50.0                        |
| K286605            |                                   | 664                         | 4.01                       | 12.55                        | 0.21                         | 1.8                         | 0.076                         | 1.97                      | 28.3                        | 23.3                        | 2.39                       | 449                       | 8.83                         | 0.20                       | 8.6                         | 48.4                        |
| K286606            |                                   | 1300                        | 7.06                       | 10.50                        | 0.18                         | 1.4                         | 0.567                         | 2.61                      | 17.0                        | 17.6                        | 2.73                       | 603                       | 7.80                         | 0.12                       | 7.1                         | 46.6                        |
| K286607            |                                   | 5.8                         | 0.44                       | 0.25                         | 0.08                         | <0.1                        | <0.005                        | 0.03                      | 0.7                         | 1.3                         | 12.30                      | 177                       | 0.19                         | 0.01                       | 0.2                         | 2.1                         |
| K286608            |                                   | 579                         | 3.87                       | 11.20                        | 0.18                         | 1.8                         | 0.259                         | 2.40                      | 27.8                        | 15.0                        | 2.42                       | 438                       | 9.96                         | 0.16                       | 8.0                         | 40.3                        |
| K286609            |                                   | 562                         | 3.83                       | 10.95                        | 0.17                         | 1.7                         | 0.319                         | 1.71                      | 24.7                        | 13.6                        | 2.33                       | 410                       | 11.50                        | 0.17                       | 7.6                         | 49.5                        |
| K286610            |                                   | 743                         | 4.63                       | 12.80                        | 0.19                         | 1.6                         | 0.155                         | 1.39                      | 26.1                        | 9.6                         | 3.27                       | 359                       | 11.50                        | 0.15                       | 8.1                         | 53.7                        |
| K286611            |                                   | 355                         | 2.79                       | 13.95                        | 0.18                         | 1.7                         | 0.023                         | 2.10                      | 26.5                        | 21.3                        | 2.04                       | 182                       | 7.38                         | 0.19                       | 8.7                         | 74.9                        |
| K286612            |                                   | 357                         | 2.76                       | 14.10                        | 0.17                         | 2.1                         | 0.016                         | 1.81                      | 28.3                        | 20.5                        | 2.17                       | 191                       | 0.49                         | 0.18                       | 9.0                         | 64.5                        |
| K286613            |                                   | 373                         | 2.79                       | 14.80                        | 0.18                         | 1.8                         | 0.020                         | 1.77                      | 30.0                        | 21.5                        | 2.29                       | 195                       | 0.53                         | 0.18                       | 9.0                         | 64.9                        |
| K286614            |                                   | 272                         | 2.42                       | 13.90                        | 0.16                         | 2.1                         | 0.014                         | 2.40                      | 26.9                        | 24.6                        | 1.81                       | 181                       | 0.67                         | 0.22                       | 9.4                         | 51.4                        |
| K286615            |                                   | 347                         | 2.96                       | 14.50                        | 0.16                         | 2.5                         | 0.016                         | 1.85                      | 27.2                        | 29.8                        | 2.10                       | 185                       | 0.95                         | 0.19                       | 9.3                         | 72.3                        |
| K286616            |                                   | 332                         | 2.84                       | 13.40                        | 0.13                         | 2.1                         | 0.032                         | 1.88                      | 27.4                        | 23.3                        | 2.21                       | 256                       | 0.62                         | 0.19                       | 8.5                         | 55.7                        |
| K286617            |                                   | 352                         | 2.78                       | 14.35                        | 0.17                         | 1.8                         | 0.026                         | 2.50                      | 25.3                        | 25.5                        | 1.95                       | 152                       | 0.90                         | 0.17                       | 9.4                         | 101.5                       |
| K286618            |                                   | 381                         | 3.47                       | 14.15                        | 0.19                         | 1.8                         | 0.021                         | 2.02                      | 30.8                        | 23.4                        | 2.21                       | 206                       | 1.08                         | 0.19                       | 9.8                         | 98.8                        |
| K286619            |                                   | 368                         | 3.42                       | 13.55                        | 0.20                         | 1.9                         | 0.022                         | 1.96                      | 29.8                        | 22.3                        | 2.20                       | 206                       | 1.04                         | 0.19                       | 9.8                         | 95.7                        |
| K286620            |                                   | 257                         | 2.50                       | 12.80                        | 0.17                         | 1.7                         | 0.025                         | 2.03                      | 27.8                        | 23.0                        | 1.81                       | 172                       | 0.27                         | 0.21                       | 9.0                         | 46.6                        |
| K286621            |                                   | 343                         | 3.46                       | 13.70                        | 0.19                         | 1.7                         | 0.024                         | 2.41                      | 28.6                        | 22.8                        | 2.02                       | 200                       | 3.59                         | 0.27                       | 9.9                         | 56.4                        |



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Account: RANSIL

Project: KEG (Main - Group 1)

**CERTIFICATE OF ANALYSIS WH12162406**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS61   | ME-MS61    | ME-MS61    | ME-MS61      | ME-MS61   | ME-MS61     | ME-MS61    | ME-MS61  | ME-MS61    | ME-MS61    | ME-MS61     | ME-MS61     | ME-MS61    | ME-MS61    | ME-MS61     |
|--------------------|-----------------------------------|-----------|------------|------------|--------------|-----------|-------------|------------|----------|------------|------------|-------------|-------------|------------|------------|-------------|
|                    |                                   | P         | Pb         | Rb         | Re           | S         | Sb          | Sc         | Se       | Sn         | Sr         | Ta          | Te          | Th         | Ti         | Tl          |
|                    |                                   | ppm<br>10 | ppm<br>0.5 | ppm<br>0.1 | ppm<br>0.002 | %<br>0.01 | ppm<br>0.05 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.2 | ppm<br>0.2 | ppm<br>0.05 | ppm<br>0.05 | ppm<br>0.2 | %<br>0.005 | ppm<br>0.02 |
| K286585            |                                   | 1140      | 11.6       | 88.9       | 0.078        | 2.56      | 1.75        | 12.4       | 18       | 10.5       | 210        | 0.58        | 0.26        | 6.5        | 0.258      | 0.97        |
| K286586            |                                   | 4590      | 10.0       | 105.0      | 0.086        | 1.94      | 1.65        | 13.6       | 15       | 6.9        | 256        | 0.64        | 0.16        | 7.0        | 0.276      | 1.02        |
| K286587            |                                   | 1220      | 6.8        | 137.0      | 0.048        | 1.43      | 1.03        | 13.9       | 11       | 4.2        | 190.5      | 0.74        | 0.17        | 7.9        | 0.312      | 1.39        |
| K286588            |                                   | 590       | 7.1        | 122.5      | 0.006        | 1.10      | 1.04        | 12.7       | 8        | 4.6        | 198.5      | 0.65        | 0.21        | 7.4        | 0.292      | 1.25        |
| K286589            |                                   | 1130      | 1005       | 97.5       | 0.016        | 1.02      | 7.83        | 9.7        | 29       | 139.5      | 213        | 0.63        | 0.24        | 6.8        | 0.287      | 0.86        |
| K286590            |                                   | 870       | 8.4        | 140.5      | 0.012        | 1.27      | 0.87        | 11.4       | 14       | 4.7        | 196.5      | 0.61        | 0.28        | 7.7        | 0.289      | 1.58        |
| K286591            |                                   | 2090      | 6.3        | 120.0      | 0.023        | 1.32      | 0.97        | 11.4       | 15       | 5.0        | 212        | 0.65        | 0.24        | 8.0        | 0.290      | 1.46        |
| K286593            |                                   | 1740      | 5.9        | 124.0      | 0.020        | 1.35      | 0.91        | 10.2       | 15       | 5.4        | 287        | 0.66        | 0.33        | 7.7        | 0.293      | 1.30        |
| K286594            |                                   | 1250      | 8.7        | 64.4       | 0.003        | 3.04      | 3.15        | 7.6        | 24       | 21.1       | 188.0      | 0.57        | 1.10        | 5.5        | 0.258      | 0.74        |
| K286595            |                                   | 210       | 1.4        | 1.2        | <0.002       | 0.01      | 0.10        | 0.2        | 1        | <0.2       | 48.2       | <0.05       | <0.05       | <0.2       | <0.005     | 0.02        |
| K286596            |                                   | 3490      | 5.9        | 66.0       | 0.015        | 1.91      | 1.00        | 7.9        | 17       | 10.3       | 241        | 0.57        | 0.52        | 6.4        | 0.263      | 0.61        |
| K286597            |                                   | 4280      | 4.6        | 47.2       | 0.022        | 2.09      | 0.66        | 7.4        | 19       | 11.4       | 251        | 0.53        | 0.57        | 6.0        | 0.253      | 0.42        |
| K286598            |                                   | 2860      | 5.0        | 67.6       | 0.006        | 2.15      | 1.05        | 7.9        | 18       | 18.3       | 245        | 0.59        | 0.83        | 6.4        | 0.279      | 0.61        |
| K286599            |                                   | 4080      | 7.0        | 122.5      | 0.018        | 1.45      | 1.88        | 10.0       | 14       | 12.5       | 327        | 0.72        | 0.48        | 8.6        | 0.316      | 1.03        |
| K286600            |                                   | 3550      | 7.3        | 157.5      | 0.008        | 1.41      | 1.57        | 8.1        | 12       | 26.1       | 216        | 0.60        | 0.81        | 6.3        | 0.283      | 1.36        |
| K286601            |                                   | 2900      | 5.3        | 148.0      | 0.013        | 0.86      | 2.32        | 8.1        | 8        | 24.7       | 194.0      | 0.64        | 0.80        | 6.5        | 0.289      | 1.38        |
| K286602            |                                   | 830       | 1430       | 69.9       | 0.018        | 2.84      | 8.94        | 6.7        | 56       | 227        | 163.5      | 0.55        | 0.53        | 5.8        | 0.255      | 0.74        |
| K286603            |                                   | 2400      | 6.8        | 111.5      | 0.015        | 1.23      | 1.32        | 9.0        | 12       | 15.7       | 337        | 0.77        | 0.62        | 8.5        | 0.350      | 1.00        |
| K286604            |                                   | 3100      | 7.2        | 112.5      | 0.014        | 2.38      | 1.22        | 8.3        | 20       | 18.4       | 240        | 0.62        | 1.46        | 6.4        | 0.284      | 1.01        |
| K286605            |                                   | 3450      | 6.2        | 91.8       | 0.013        | 2.08      | 2.47        | 8.7        | 17       | 14.7       | 290        | 0.63        | 0.79        | 6.8        | 0.286      | 0.83        |
| K286606            |                                   | 2480      | 6.9        | 104.0      | 0.006        | 3.78      | 1.68        | 6.0        | 30       | 35.3       | 132.5      | 0.52        | 2.17        | 5.2        | 0.245      | 0.94        |
| K286607            |                                   | 200       | 1.5        | 1.5        | <0.002       | 0.02      | 0.07        | 0.2        | 1        | 0.2        | 45.9       | <0.05       | <0.05       | <0.2       | <0.005     | <0.02       |
| K286608            |                                   | 3000      | 5.4        | 104.0      | 0.010        | 2.11      | 3.78        | 7.7        | 16       | 16.5       | 216        | 0.59        | 0.70        | 6.2        | 0.275      | 0.82        |
| K286609            |                                   | 3330      | 4.9        | 70.6       | 0.017        | 2.10      | 1.22        | 7.7        | 17       | 10.9       | 229        | 0.57        | 0.68        | 5.9        | 0.260      | 0.60        |
| K286610            |                                   | 3640      | 8.5        | 57.2       | 0.016        | 2.46      | 1.62        | 8.7        | 23       | 11.6       | 225        | 0.59        | 1.05        | 6.1        | 0.264      | 0.53        |
| K286611            |                                   | 1200      | 5.0        | 137.0      | 0.013        | 1.36      | 0.61        | 10.6       | 12       | 5.0        | 237        | 0.65        | 0.34        | 7.0        | 0.286      | 1.39        |
| K286612            |                                   | 590       | 4.5        | 128.0      | <0.002       | 1.38      | 0.58        | 11.4       | 10       | 4.8        | 214        | 0.65        | 0.27        | 7.7        | 0.293      | 1.45        |
| K286613            |                                   | 580       | 4.7        | 131.5      | 0.002        | 1.42      | 0.65        | 11.8       | 10       | 5.6        | 214        | 0.63        | 0.38        | 7.5        | 0.287      | 1.49        |
| K286614            |                                   | 510       | 5.4        | 147.5      | 0.002        | 1.21      | 0.70        | 10.8       | 8        | 4.2        | 229        | 0.68        | 0.22        | 8.1        | 0.316      | 1.75        |
| K286615            |                                   | 530       | 4.8        | 134.5      | 0.008        | 1.48      | 0.83        | 11.8       | 12       | 3.9        | 198.5      | 0.65        | 0.68        | 7.7        | 0.302      | 1.59        |
| K286616            |                                   | 570       | 5.6        | 119.0      | <0.002       | 1.31      | 1.38        | 10.9       | 10       | 3.5        | 213        | 0.56        | 0.25        | 7.0        | 0.271      | 1.22        |
| K286617            |                                   | 640       | 7.7        | 154.5      | 0.008        | 1.43      | 1.56        | 12.8       | 13       | 4.1        | 260        | 0.65        | 0.23        | 7.6        | 0.292      | 1.50        |
| K286618            |                                   | 870       | 5.5        | 127.5      | 0.008        | 1.90      | 1.36        | 13.1       | 13       | 3.2        | 247        | 0.67        | 0.29        | 8.1        | 0.309      | 1.40        |
| K286619            |                                   | 780       | 5.4        | 126.5      | 0.010        | 1.89      | 1.22        | 12.5       | 12       | 3.1        | 243        | 0.68        | 0.29        | 7.9        | 0.304      | 1.33        |
| K286620            |                                   | 490       | 4.5        | 129.0      | 0.002        | 1.12      | 0.53        | 12.3       | 7        | 3.2        | 196.0      | 0.64        | 0.15        | 7.4        | 0.289      | 1.38        |
| K286621            |                                   | 670       | 5.2        | 155.5      | 0.012        | 1.60      | 0.57        | 12.2       | 11       | 3.9        | 214        | 0.69        | 0.25        | 8.0        | 0.323      | 1.67        |



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 Plus Appendix Pages  
 Finalized Date: 2-AUG-2012  
 Account: RANSIL

Project: KEG (Main - Group 1)

**CERTIFICATE OF ANALYSIS WH12162406**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS61<br>U<br>ppm<br>0.1 | ME-MS61<br>V<br>ppm<br>1 | ME-MS61<br>W<br>ppm<br>0.1 | ME-MS61<br>Y<br>ppm<br>0.1 | ME-MS61<br>Zn<br>ppm<br>2 | ME-MS61<br>Zr<br>ppm<br>0.5 | Zn-OG62<br>Zn<br>%<br>0.001 |
|--------------------|-----------------------------------|----------------------------|--------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|-----------------------------|
| K286585            |                                   | 9.7                        | 329                      | 4.8                        | 39.5                       | 639                       | 66.9                        |                             |
| K286586            |                                   | 24.0                       | 792                      | 9.2                        | 77.6                       | 581                       | 87.1                        |                             |
| K286587            |                                   | 9.0                        | 605                      | 1.8                        | 37.2                       | 109                       | 85.9                        |                             |
| K286588            |                                   | 2.2                        | 80                       | 2.0                        | 29.0                       | 63                        | 65.5                        |                             |
| K286589            |                                   | 3.7                        | 133                      | 2.8                        | 27.8                       | 3130                      | 51.5                        |                             |
| K286590            |                                   | 3.2                        | 138                      | 1.8                        | 32.1                       | 153                       | 72.5                        |                             |
| K286591            |                                   | 4.5                        | 207                      | 1.7                        | 41.9                       | 141                       | 79.0                        |                             |
| K286593            |                                   | 4.5                        | 192                      | 2.6                        | 36.7                       | 212                       | 76.8                        |                             |
| K286594            |                                   | 2.4                        | 89                       | 23.6                       | 30.2                       | 113                       | 57.5                        |                             |
| K286595            |                                   | 0.7                        | 1                        | 0.1                        | 0.8                        | 17                        | 0.5                         |                             |
| K286596            |                                   | 3.9                        | 154                      | 15.1                       | 32.5                       | 84                        | 61.4                        |                             |
| K286597            |                                   | 5.1                        | 179                      | 18.6                       | 29.3                       | 91                        | 59.7                        |                             |
| K286598            |                                   | 3.8                        | 121                      | 23.2                       | 31.7                       | 92                        | 61.3                        |                             |
| K286599            |                                   | 5.5                        | 160                      | 12.8                       | 48.9                       | 47                        | 76.3                        |                             |
| K286600            |                                   | 3.7                        | 115                      | 9.2                        | 36.1                       | 66                        | 67.1                        |                             |
| K286601            |                                   | 3.3                        | 143                      | 6.4                        | 34.1                       | 84                        | 66.9                        |                             |
| K286602            |                                   | 3.4                        | 102                      | 5.0                        | 24.3                       | >10000                    | 43.6                        | 1.395                       |
| K286603            |                                   | 4.3                        | 174                      | 12.3                       | 32.5                       | 37                        | 76.1                        |                             |
| K286604            |                                   | 3.9                        | 124                      | 26.9                       | 33.7                       | 90                        | 68.4                        |                             |
| K286605            |                                   | 4.3                        | 133                      | 16.9                       | 37.6                       | 82                        | 71.3                        |                             |
| K286606            |                                   | 3.0                        | 110                      | 11.5                       | 25.8                       | 585                       | 51.3                        |                             |
| K286607            |                                   | 0.6                        | 1                        | 0.2                        | 0.9                        | 15                        | <0.5                        |                             |
| K286608            |                                   | 4.2                        | 136                      | 4.0                        | 31.3                       | 414                       | 66.6                        |                             |
| K286609            |                                   | 4.6                        | 151                      | 12.5                       | 32.1                       | 446                       | 62.9                        |                             |
| K286610            |                                   | 4.1                        | 158                      | 8.4                        | 35.6                       | 238                       | 64.8                        |                             |
| K286611            |                                   | 3.3                        | 160                      | 2.5                        | 32.3                       | 69                        | 71.6                        |                             |
| K286612            |                                   | 2.1                        | 80                       | 5.4                        | 29.5                       | 34                        | 68.2                        |                             |
| K286613            |                                   | 2.1                        | 77                       | 8.6                        | 30.6                       | 34                        | 73.1                        |                             |
| K286614            |                                   | 2.3                        | 86                       | 2.9                        | 27.0                       | 33                        | 72.8                        |                             |
| K286615            |                                   | 2.5                        | 94                       | 4.6                        | 30.3                       | 45                        | 72.3                        |                             |
| K286616            |                                   | 1.9                        | 67                       | 3.3                        | 28.5                       | 40                        | 71.1                        |                             |
| K286617            |                                   | 2.4                        | 131                      | 2.7                        | 28.8                       | 61                        | 71.0                        |                             |
| K286618            |                                   | 2.9                        | 101                      | 4.1                        | 38.7                       | 51                        | 70.4                        |                             |
| K286619            |                                   | 2.8                        | 98                       | 4.3                        | 37.8                       | 49                        | 69.6                        |                             |
| K286620            |                                   | 1.9                        | 70                       | 1.8                        | 28.8                       | 44                        | 67.3                        |                             |
| K286621            |                                   | 2.6                        | 152                      | 2.1                        | 33.3                       | 67                        | 66.3                        |                             |



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**CERTIFICATE OF ANALYSIS WH12162406**

| Method  | CERTIFICATE COMMENTS                                     |
|---------|--|
| ME-MS61 | Interference: Ca>10% on ICP-MS As,ICP-AES results shown. |
| ME-MS61 | REE's may not be totally soluble in this method.         |