ALS Canada Ltd.

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

To: **OSISKO MINING LTD.**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042671

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 70 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| MIKE FELL | FRANK PLOEGER | ANDREW STOKES |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-02 | Find Sample for Addn Analysis |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP61 | 33 element four acid ICP-AES | ICP-AES |

To: **OSISKO MINING LTD.**
**ATTN: ANDREW STOKES**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**

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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**Finalized Date: 22-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042671

| Sample Description | Method / Analyte / Units / LOR | ME-ICP61 Ag ppm 0.5 | ME-ICP61 Al % 0.01 | ME-ICP61 As ppm 5 | ME-ICP61 Ba ppm 10 | ME-ICP61 Be ppm 0.5 | ME-ICP61 Bi ppm 2 | ME-ICP61 Ca % 0.01 | ME-ICP61 Cd ppm 0.5 | ME-ICP61 Co ppm 1 | ME-ICP61 Cr ppm 1 | ME-ICP61 Cu ppm 1 | ME-ICP61 Fe % 0.01 | ME-ICP61 Ga ppm 10 | ME-ICP61 K % 0.01 | ME-ICP61 La ppm 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174541 | | <0.5 | 6.94 | 106 | 160 | 0.6 | <2 | 3.45 | <0.5 | 45 | 62 | 136 | 9.77 | 20 | 1.62 | 10 |
| L174542 | | <0.5 | 7.05 | 6 | 2130 | 1.6 | <2 | 2.22 | <0.5 | 11 | 62 | 34 | 2.95 | 20 | 2.52 | 30 |
| L174543 | | <0.5 | 7.62 | 17 | 1980 | 2.0 | <2 | 2.98 | <0.5 | 15 | 51 | 62 | 4.79 | 20 | 2.35 | 30 |
| L174544 | | <0.5 | 7.25 | <5 | 2220 | 1.9 | <2 | 4.83 | <0.5 | 24 | 69 | 10 | 5.95 | 20 | 2.24 | 40 |
| L174545 | | <0.5 | 6.60 | 23 | 1310 | 2.5 | 2 | 2.19 | <0.5 | 10 | 61 | 32 | 3.01 | 20 | 2.45 | 30 |
| L174546 | | <0.5 | 6.42 | 22 | 890 | 1.5 | <2 | 4.84 | <0.5 | 34 | 379 | 60 | 5.78 | 20 | 1.50 | 30 |
| L174547 | | <0.5 | 6.89 | 8 | 630 | 1.6 | <2 | 6.63 | <0.5 | 34 | 166 | 24 | 7.21 | 20 | 1.56 | 40 |
| L174548 | | <0.5 | 7.74 | <5 | 2830 | 1.7 | <2 | 2.91 | <0.5 | 16 | 54 | 69 | 3.78 | 20 | 2.03 | 30 |
| L174549 | | <0.5 | 8.03 | 13 | 2030 | 2.1 | <2 | 1.68 | <0.5 | 15 | 69 | 22 | 3.28 | 20 | 2.84 | 40 |
| L174550 | | <0.5 | 8.27 | 5 | 1810 | 2.0 | <2 | 1.34 | <0.5 | 12 | 55 | 11 | 3.16 | 20 | 2.57 | 50 |
| L174451 | | <0.5 | 7.75 | 17 | 1670 | 1.8 | <2 | 2.99 | <0.5 | 13 | 73 | 24 | 2.73 | 20 | 2.38 | 40 |
| L174452 | | <0.5 | 7.75 | <5 | 4390 | 2.2 | <2 | 4.63 | <0.5 | 22 | 113 | 33 | 5.40 | 20 | 1.74 | 60 |
| L174453 | | <0.5 | 8.83 | <5 | 2420 | 2.1 | <2 | 1.98 | <0.5 | 11 | 61 | 8 | 2.48 | 20 | 3.09 | 40 |
| L174454 | | <0.5 | 7.99 | <5 | 2290 | 2.3 | <2 | 2.53 | <0.5 | 17 | 101 | 1 | 3.63 | 20 | 2.63 | 40 |
| L174455 | | <0.5 | 6.52 | <5 | 1060 | 1.5 | <2 | 3.50 | <0.5 | 23 | 215 | 44 | 4.28 | 20 | 2.03 | 30 |
| L174456 | | <0.5 | 6.99 | <5 | 990 | 1.7 | <2 | 2.57 | <0.5 | 31 | 238 | 71 | 4.86 | 20 | 1.80 | 30 |
| L174457 | | <0.5 | 5.10 | 139 | 1200 | 1.3 | <2 | 6.81 | <0.5 | 34 | 522 | 53 | 5.25 | 10 | 1.72 | 20 |
| L174458 | | <0.5 | 7.17 | <5 | 2450 | 1.9 | <2 | 3.86 | <0.5 | 13 | 72 | 1 | 3.59 | 20 | 2.46 | 30 |
| L174459 | | <0.5 | 5.86 | 40 | 590 | 0.9 | <2 | 2.87 | <0.5 | 19 | 110 | 37 | 3.19 | 10 | 1.12 | 20 |
| L174460 | | <0.5 | 6.35 | 6 | 200 | 0.8 | 2 | 5.62 | <0.5 | 47 | 10 | 67 | 14.55 | 20 | 0.40 | 10 |
| L174461 | | <0.5 | 7.23 | 15 | 620 | 1.2 | <2 | 1.77 | <0.5 | 17 | 118 | 25 | 3.43 | 20 | 1.72 | 20 |
| L174462 | | <0.5 | 7.29 | 51 | 1060 | 1.3 | <2 | 2.54 | <0.5 | 20 | 91 | 47 | 3.45 | 20 | 1.47 | 20 |
| L174463 | | <0.5 | 6.71 | <5 | 750 | 1.3 | <2 | 3.82 | <0.5 | 22 | 291 | 44 | 3.69 | 20 | 2.02 | 20 |
| L174464 | | <0.5 | 7.73 | 165 | 450 | 1.0 | <2 | 1.46 | <0.5 | 34 | 188 | 74 | 5.71 | 20 | 1.11 | 10 |
| L174465 | | <0.5 | 3.11 | <5 | 210 | <0.5 | <2 | 9.31 | <0.5 | 13 | 55 | 13 | 4.82 | 10 | 0.63 | 10 |
| L174466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174467 | | <0.5 | 5.79 | 8 | 430 | 1.1 | <2 | 5.29 | <0.5 | 23 | 140 | 46 | 3.88 | 10 | 2.10 | 30 |
| L174468 | | <0.5 | 6.61 | 84 | 680 | 1.1 | <2 | 2.21 | <0.5 | 24 | 284 | 51 | 3.65 | 20 | 2.04 | 30 |
| L174469 | | <0.5 | 6.28 | 5 | 420 | 0.5 | <2 | 2.64 | <0.5 | 14 | 77 | 29 | 3.37 | 10 | 1.05 | 10 |
| L174470 | | <0.5 | 7.12 | <5 | 8310 | 4.0 | <2 | 2.55 | <0.5 | 19 | 75 | 96 | 5.95 | 20 | 4.18 | 70 |
| L174471 | | <0.5 | 2.16 | <5 | 40 | <0.5 | <2 | 2.35 | <0.5 | 117 | 2590 | 8 | 8.29 | 10 | 0.09 | <10 |
| L174472 | | <0.5 | 6.23 | 5 | 4280 | 2.0 | <2 | 5.75 | <0.5 | 30 | 94 | 190 | 6.93 | 20 | 4.64 | 90 |
| L174473 | | <0.5 | 8.19 | <5 | 180 | 1.4 | 3 | 9.46 | <0.5 | 46 | 161 | 199 | 7.22 | 20 | 0.92 | 20 |
| L174474 | | <0.5 | 7.95 | <5 | 160 | 1.0 | 2 | 8.14 | <0.5 | 54 | 188 | 103 | 8.74 | 20 | 0.86 | 10 |
| L174475 | | <0.5 | 7.36 | <5 | 110 | 0.5 | 5 | 10.85 | <0.5 | 49 | 65 | 87 | 11.15 | 20 | 0.47 | 10 |
| L174476 | | <0.5 | 10.35 | <5 | 200 | 9.4 | <2 | 0.55 | <0.5 | 4 | 13 | 6 | 1.16 | 40 | 1.60 | 60 |
| L174477 | | <0.5 | 8.56 | <5 | 890 | 2.1 | <2 | 5.76 | <0.5 | 25 | 75 | 26 | 5.65 | 20 | 1.07 | 50 |
| L174478 | | <0.5 | 7.10 | <5 | 80 | <0.5 | 6 | 8.44 | <0.5 | 53 | 78 | 76 | 12.50 | 20 | 0.22 | 10 |
| L174479 | | 2.9 | 7.89 | 12 | 2680 | 1.8 | <2 | 3.40 | <0.5 | 20 | 86 | 963 | 4.86 | 20 | 4.83 | 60 |
| L174480 | | <0.5 | 7.83 | <5 | 3100 | 2.0 | <2 | 2.95 | <0.5 | 18 | 71 | 55 | 5.02 | 20 | 4.34 | 60 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042671

| Sample Description | Method / Analyte / Units / LOR | ME-ICP61 Mg % 0.01 | ME-ICP61 Mn ppm 5 | ME-ICP61 Mo ppm 1 | ME-ICP61 Na % 0.01 | ME-ICP61 Ni ppm 1 | ME-ICP61 P ppm 10 | ME-ICP61 Pb ppm 2 | ME-ICP61 S % 0.01 | ME-ICP61 Sb ppm 5 | ME-ICP61 Sc ppm 1 | ME-ICP61 Sr ppm 1 | ME-ICP61 Th ppm 20 | ME-ICP61 Ti % 0.01 | ME-ICP61 Tl ppm 10 | ME-ICP61 U ppm 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174541 | | 1.49 | 1560 | 4 | 2.65 | 44 | 620 | <2 | 0.64 | <5 | 39 | 120 | <20 | 0.55 | 10 | <10 |
| L174542 | | 1.11 | 548 | <1 | 3.45 | 32 | 1020 | 5 | 0.08 | <5 | 8 | 749 | <20 | 0.22 | <10 | <10 |
| L174543 | | 1.26 | 1235 | <1 | 4.10 | 15 | 1320 | 8 | 0.04 | <5 | 13 | 856 | <20 | 0.33 | <10 | <10 |
| L174544 | | 2.60 | 1220 | <1 | 2.01 | 19 | 1700 | 7 | 0.04 | 12 | 25 | 1065 | <20 | 0.35 | 10 | <10 |
| L174545 | | 1.13 | 729 | <1 | 2.16 | 20 | 870 | 50 | 0.05 | <5 | 8 | 717 | <20 | 0.21 | <10 | <10 |
| L174546 | | 2.72 | 1185 | <1 | 2.42 | 190 | 1090 | 8 | 0.19 | <5 | 23 | 834 | <20 | 0.28 | 10 | <10 |
| L174547 | | 3.68 | 1470 | <1 | 2.51 | 48 | 1540 | 24 | 0.01 | <5 | 32 | 828 | <20 | 0.50 | <10 | <10 |
| L174548 | | 1.14 | 890 | 1 | 3.97 | 17 | 1070 | 94 | 0.07 | <5 | 12 | 1565 | <20 | 0.21 | <10 | <10 |
| L174549 | | 0.90 | 694 | <1 | 3.04 | 29 | 1260 | 10 | 0.13 | <5 | 10 | 975 | <20 | 0.21 | <10 | <10 |
| L174550 | | 0.63 | 566 | <1 | 3.26 | 24 | 1050 | 15 | 0.10 | <5 | 8 | 879 | <20 | 0.19 | 10 | <10 |
| L174451 | | 1.26 | 724 | <1 | 3.77 | 30 | 660 | 9 | 0.27 | <5 | 8 | 1265 | <20 | 0.20 | <10 | <10 |
| L174452 | | 2.73 | 1110 | <1 | 3.35 | 41 | 1560 | 23 | 0.11 | 6 | 21 | 1835 | <20 | 0.31 | <10 | <10 |
| L174453 | | 0.98 | 507 | <1 | 3.52 | 26 | 840 | 39 | 0.13 | 6 | 7 | 809 | <20 | 0.20 | <10 | <10 |
| L174454 | | 1.83 | 648 | <1 | 3.44 | 45 | 1310 | 10 | 0.04 | <5 | 11 | 858 | <20 | 0.31 | <10 | <10 |
| L174455 | | 1.81 | 809 | 1 | 2.13 | 92 | 970 | 10 | 0.07 | 8 | 17 | 532 | <20 | 0.18 | <10 | <10 |
| L174456 | | 2.91 | 694 | <1 | 2.46 | 115 | 1020 | 2 | 0.02 | 11 | 18 | 401 | <20 | 0.36 | <10 | <10 |
| L174457 | | 2.69 | 2050 | 2 | 1.63 | 274 | 680 | 40 | 0.17 | 49 | 17 | 1165 | <20 | 0.19 | <10 | <10 |
| L174458 | | 1.14 | 867 | <1 | 1.54 | 27 | 800 | 17 | 0.03 | <5 | 9 | 1185 | <20 | 0.23 | <10 | <10 |
| L174459 | | 1.16 | 603 | <1 | 3.14 | 42 | 770 | 17 | 0.41 | <5 | 13 | 573 | <20 | 0.20 | <10 | <10 |
| L174460 | | 2.90 | 2110 | 5 | 2.91 | 8 | 1010 | 7 | 1.36 | 8 | 48 | 436 | <20 | 1.24 | <10 | <10 |
| L174461 | | 1.43 | 413 | <1 | 3.01 | 64 | 560 | 3 | 0.14 | <5 | 11 | 328 | <20 | 0.26 | <10 | <10 |
| L174462 | | 1.32 | 602 | <1 | 3.21 | 49 | 760 | 2 | 0.12 | <5 | 17 | 527 | <20 | 0.39 | <10 | <10 |
| L174463 | | 2.34 | 853 | <1 | 2.59 | 135 | 670 | 3 | 0.16 | <5 | 13 | 582 | <20 | 0.27 | <10 | <10 |
| L174464 | | 2.27 | 556 | <1 | 2.18 | 89 | 650 | <2 | 0.25 | <5 | 23 | 204 | <20 | 0.36 | <10 | <10 |
| L174465 | | 3.76 | 1265 | 1 | 1.06 | 54 | 200 | 10 | 0.02 | <5 | 7 | 604 | <20 | 0.08 | <10 | <10 |
| L174466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174467 | | 2.39 | 897 | <1 | 1.91 | 67 | 1430 | 7 | 0.24 | 10 | 20 | 574 | <20 | 0.26 | <10 | <10 |
| L174468 | | 1.75 | 440 | 1 | 2.28 | 141 | 620 | 8 | 0.23 | <5 | 14 | 323 | <20 | 0.28 | <10 | <10 |
| L174469 | | 0.92 | 739 | 1 | 2.82 | 39 | 370 | 3 | 0.08 | <5 | 10 | 393 | <20 | 0.19 | <10 | <10 |
| L174470 | | 1.04 | 1950 | 1 | 1.65 | 35 | 1870 | 31 | 0.25 | <5 | 13 | 1155 | 20 | 0.23 | <10 | <10 |
| L174471 | | 18.50 | 1435 | <1 | 0.10 | 1225 | 100 | <2 | 0.05 | <5 | 14 | 20 | <20 | 0.12 | <10 | <10 |
| L174472 | | 3.42 | 1260 | <1 | 2.45 | 40 | 4260 | 18 | 0.03 | <5 | 22 | 2030 | 20 | 0.52 | <10 | <10 |
| L174473 | | 2.86 | 1805 | <1 | 2.68 | 89 | 450 | 10 | 0.15 | 8 | 43 | 646 | <20 | 0.64 | <10 | <10 |
| L174474 | | 3.51 | 1525 | 1 | 2.53 | 134 | 390 | 12 | 0.20 | <5 | 41 | 509 | <20 | 0.60 | <10 | <10 |
| L174475 | | 2.76 | 4170 | <1 | 0.71 | 87 | 610 | 6 | 0.12 | <5 | 42 | 134 | <20 | 0.68 | 10 | <10 |
| L174476 | | 0.50 | 366 | <1 | 6.63 | 17 | 120 | 150 | 0.02 | <5 | 1 | 177 | 120 | 0.12 | <10 | 30 |
| L174477 | | 2.50 | 1050 | <1 | 3.36 | 37 | 2110 | 11 | 0.01 | 5 | 15 | 688 | <20 | 0.36 | <10 | <10 |
| L174478 | | 3.74 | 1965 | 1 | 1.75 | 84 | 450 | 2 | 0.14 | 7 | 44 | 188 | <20 | 0.71 | <10 | <10 |
| L174479 | | 2.10 | 944 | 1 | 3.38 | 39 | 2410 | 49 | 0.02 | <5 | 14 | 1295 | <20 | 0.38 | <10 | <10 |
| L174480 | | 2.07 | 1055 | <1 | 3.87 | 28 | 2520 | 34 | 0.01 | <5 | 14 | 1395 | <20 | 0.39 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042671

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP61<br>V<br>ppm<br>1 | ME-ICP61<br>W<br>ppm<br>10 | ME-ICP61<br>Zn<br>ppm<br>2 |
|---|---|---|---|---|
| L174541 | | 348 | 20 | 101 |
| L174542 | | 83 | 10 | 55 |
| L174543 | | 150 | <10 | 75 |
| L174544 | | 179 | 10 | 133 |
| L174545 | | 82 | <10 | 90 |
| L174546 | | 164 | <10 | 75 |
| L174547 | | 236 | <10 | 128 |
| L174548 | | 134 | <10 | 92 |
| L174549 | | 87 | <10 | 65 |
| L174550 | | 66 | <10 | 77 |
| L174451 | | 73 | <10 | 70 |
| L174452 | | 148 | <10 | 106 |
| L174453 | | 66 | <10 | 88 |
| L174454 | | 97 | 10 | 98 |
| L174455 | | 115 | <10 | 101 |
| L174456 | | 151 | <10 | 106 |
| L174457 | | 139 | <10 | 88 |
| L174458 | | 106 | 10 | 84 |
| L174459 | | 95 | <10 | 36 |
| L174460 | | 344 | <10 | 222 |
| L174461 | | 93 | 10 | 59 |
| L174462 | | 135 | <10 | 76 |
| L174463 | | 98 | <10 | 57 |
| L174464 | | 178 | 10 | 146 |
| L174465 | | 63 | <10 | 71 |
| L174466 | | NSS | NSS | NSS |
| L174467 | | 139 | <10 | 41 |
| L174468 | | 97 | <10 | 72 |
| L174469 | | 69 | <10 | 58 |
| L174470 | | 173 | <10 | 126 |
| L174471 | | 85 | <10 | 90 |
| L174472 | | 178 | <10 | 121 |
| L174473 | | 288 | <10 | 105 |
| L174474 | | 275 | 10 | 141 |
| L174475 | | 297 | <10 | 128 |
| L174476 | | 35 | <10 | 50 |
| L174477 | | 143 | 10 | 108 |
| L174478 | | 351 | 20 | 133 |
| L174479 | | 135 | <10 | 165 |
| L174480 | | 142 | <10 | 119 |

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| Sample Description | Method / Analyte / Units / LOR | ME-ICP61 Ag ppm 0.5 | ME-ICP61 Al % 0.01 | ME-ICP61 As ppm 5 | ME-ICP61 Ba ppm 10 | ME-ICP61 Be ppm 0.5 | ME-ICP61 Bi ppm 2 | ME-ICP61 Ca % 0.01 | ME-ICP61 Cd ppm 0.5 | ME-ICP61 Co ppm 1 | ME-ICP61 Cr ppm 1 | ME-ICP61 Cu ppm 1 | ME-ICP61 Fe % 0.01 | ME-ICP61 Ga ppm 10 | ME-ICP61 K % 0.01 | ME-ICP61 La ppm 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174481 | | <0.5 | 7.97 | <5 | 3360 | 1.2 | <2 | 3.51 | <0.5 | 17 | 58 | 48 | 4.58 | 20 | 4.88 | 50 |
| L174482 | | <0.5 | 8.51 | <5 | 700 | 23.1 | <2 | 1.13 | <0.5 | 8 | 44 | 7 | 1.00 | 30 | 3.61 | 40 |
| L174483 | | <0.5 | 8.83 | <5 | 1810 | 1.8 | <2 | 0.91 | <0.5 | 4 | 44 | 24 | 2.53 | 20 | 3.92 | 50 |
| L174484 | | <0.5 | 8.98 | <5 | 2250 | 1.3 | <2 | 1.37 | <0.5 | 8 | 53 | 40 | 2.71 | 20 | 4.56 | 50 |
| L174485 | | <0.5 | 8.64 | <5 | 1990 | 0.7 | <2 | 1.86 | <0.5 | 15 | 41 | 43 | 2.71 | 20 | 4.77 | 40 |
| L174486 | | <0.5 | 8.50 | <5 | 2240 | 2.1 | <2 | 2.26 | <0.5 | 12 | 58 | 40 | 3.32 | 20 | 4.36 | 60 |
| L174487 | | <0.5 | 8.79 | <5 | 2320 | 2.0 | <2 | 1.85 | <0.5 | 9 | 47 | 36 | 2.57 | 20 | 4.81 | 50 |
| L174488 | | <0.5 | 8.85 | <5 | 1690 | 2.0 | <2 | 1.53 | <0.5 | 10 | 47 | 29 | 2.57 | 20 | 3.35 | 50 |
| L174489 | | <0.5 | 8.12 | <5 | 370 | 0.6 | <2 | 2.60 | <0.5 | 7 | 27 | 3 | 1.99 | 20 | 0.86 | 10 |
| L174490 | | <0.5 | 8.68 | <5 | 2190 | 2.0 | <2 | 1.13 | <0.5 | 8 | 48 | 29 | 2.71 | 20 | 4.60 | 40 |
| L174491 | | <0.5 | 8.06 | <5 | 1980 | 2.8 | <2 | 3.12 | <0.5 | 12 | 84 | 69 | 4.43 | 20 | 4.21 | 90 |
| L174492 | | <0.5 | 8.38 | <5 | 2350 | 1.9 | <2 | 1.62 | <0.5 | 10 | 54 | 32 | 2.88 | 20 | 4.59 | 50 |
| L174493 | | <0.5 | 8.02 | 6 | 1100 | 1.4 | <2 | 2.26 | <0.5 | 12 | 43 | 11 | 2.44 | 20 | 3.04 | 40 |
| L174494 | | <0.5 | 7.68 | 17 | 280 | 1.3 | 3 | 1.39 | <0.5 | 33 | 168 | 10 | 5.22 | 20 | 1.13 | 10 |
| L174495 | | <0.5 | 8.36 | <5 | 1580 | 1.7 | <2 | 1.71 | <0.5 | 10 | 53 | 27 | 3.02 | 20 | 3.16 | 50 |
| L174496 | | <0.5 | 7.33 | <5 | 1130 | 3.2 | <2 | 4.23 | <0.5 | 20 | 69 | 94 | 4.77 | 20 | 1.69 | 80 |
| L174497 | | <0.5 | 7.71 | <5 | 3400 | 2.3 | <2 | 3.01 | <0.5 | 15 | 62 | 35 | 4.16 | 20 | 5.05 | 60 |
| L174498 | | <0.5 | 7.43 | <5 | 3040 | 1.9 | <2 | 3.06 | <0.5 | 16 | 68 | 69 | 4.30 | 20 | 4.35 | 60 |
| L174499 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174500 | | <0.5 | 7.09 | <5 | 930 | 0.5 | <2 | 7.91 | <0.5 | 48 | 234 | 26 | 7.74 | 20 | 0.98 | 20 |
| N459001 | | <0.5 | 8.53 | <5 | 90 | 0.8 | 4 | 1.16 | <0.5 | 3 | 52 | 1 | 2.22 | 20 | 0.22 | 60 |
| N459002 | | <0.5 | 7.54 | <5 | 3390 | 1.2 | 3 | 4.56 | <0.5 | 23 | 53 | 71 | 4.98 | 20 | 5.13 | 60 |
| N459003 | | <0.5 | 6.68 | <5 | 3620 | 1.7 | 2 | 3.35 | <0.5 | 19 | 69 | 44 | 4.52 | 10 | 4.27 | 70 |
| N459004 | | <0.5 | 6.60 | 6 | 2510 | 2.7 | 3 | 3.43 | <0.5 | 21 | 86 | 10 | 5.83 | 20 | 4.29 | 70 |
| N459005 | | <0.5 | 7.74 | 5 | 3160 | 2.4 | 3 | 2.48 | <0.5 | 16 | 70 | 30 | 3.77 | 20 | 4.83 | 70 |
| N459006 | | <0.5 | 2.58 | 8 | 460 | 2.4 | <2 | 12.15 | <0.5 | 34 | 148 | 12 | 4.70 | 10 | 0.91 | 120 |
| N459007 | | <0.5 | 4.16 | <5 | 220 | 0.6 | 6 | 4.50 | 0.5 | 25 | 114 | 30 | 21.3 | 10 | 0.67 | 10 |
| N459008 | | <0.5 | 6.55 | 8 | 2660 | 3.9 | <2 | 3.96 | <0.5 | 20 | 67 | 41 | 4.90 | 20 | 4.47 | 70 |
| N459009 | | <0.5 | 6.74 | 9 | 1070 | 2.0 | 3 | 3.13 | <0.5 | 22 | 85 | 54 | 4.29 | 20 | 2.27 | 40 |
| N459010 | | <0.5 | 8.16 | 8 | 3730 | 2.1 | <2 | 0.75 | <0.5 | 13 | 40 | 10 | 3.96 | 20 | 3.17 | 30 |

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

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

To: **OSISKO MINING LTD.**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042671

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti | Tl | U |
| | Units | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | LOR | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 5 | 1 | 1 | 20 | 0.01 | 10 | 10 |
| L174481 | | 1.72 | 950 | <1 | 3.60 | 23 | 2310 | 23 | 0.02 | <5 | 11 | 2030 | <20 | 0.33 | <10 | <10 |
| L174482 | | 0.54 | 274 | 1 | 5.23 | 18 | 260 | 21 | 0.18 | <5 | 2 | 358 | 60 | 0.06 | <10 | <10 |
| L174483 | | 0.59 | 532 | <1 | 4.99 | 19 | 890 | 15 | 0.01 | <5 | 5 | 692 | <20 | 0.18 | <10 | <10 |
| L174484 | | 0.70 | 521 | <1 | 4.75 | 20 | 990 | 6 | 0.03 | <5 | 5 | 1350 | <20 | 0.21 | <10 | <10 |
| L174485 | | 0.64 | 760 | <1 | 4.58 | 18 | 920 | 26 | 0.08 | <5 | 5 | 1175 | <20 | 0.13 | <10 | <10 |
| L174486 | | 1.30 | 749 | <1 | 4.48 | 23 | 1280 | 28 | <0.01 | <5 | 8 | 1560 | <20 | 0.28 | <10 | <10 |
| L174487 | | 0.89 | 580 | <1 | 4.63 | 19 | 940 | 23 | 0.01 | <5 | 5 | 1290 | <20 | 0.21 | <10 | <10 |
| L174488 | | 0.91 | 474 | <1 | 5.30 | 20 | 970 | 18 | 0.01 | <5 | 5 | 1260 | <20 | 0.22 | <10 | <10 |
| L174489 | | 0.63 | 274 | <1 | 3.86 | 9 | 350 | <2 | 0.01 | <5 | 4 | 453 | <20 | 0.20 | <10 | <10 |
| L174490 | | 0.89 | 526 | <1 | 4.62 | 17 | 950 | 26 | <0.01 | <5 | 6 | 1195 | <20 | 0.22 | <10 | <10 |
| L174491 | | 1.67 | 1075 | <1 | 4.34 | 31 | 1540 | 30 | <0.01 | 5 | 11 | 1420 | <20 | 0.37 | <10 | <10 |
| L174492 | | 1.01 | 572 | <1 | 4.22 | 20 | 1000 | 27 | <0.01 | <5 | 6 | 1555 | <20 | 0.24 | <10 | <10 |
| L174493 | | 0.76 | 247 | <1 | 4.86 | 15 | 840 | 7 | 0.17 | <5 | 5 | 797 | <20 | 0.15 | <10 | <10 |
| L174494 | | 2.02 | 536 | <1 | 3.08 | 106 | 590 | <2 | 0.37 | 11 | 22 | 107 | <20 | 0.32 | <10 | <10 |
| L174495 | | 1.02 | 331 | <1 | 4.61 | 21 | 1130 | 19 | 0.04 | <5 | 6 | 1050 | <20 | 0.16 | <10 | <10 |
| L174496 | | 2.36 | 899 | <1 | 4.51 | 28 | 2690 | 16 | 0.01 | <5 | 15 | 1110 | <20 | 0.38 | <10 | <10 |
| L174497 | | 1.74 | 804 | <1 | 3.19 | 23 | 2020 | 29 | 0.01 | <5 | 12 | 1825 | <20 | 0.34 | 10 | <10 |
| L174498 | | 1.93 | 905 | <1 | 3.52 | 24 | 2280 | 21 | 0.01 | <5 | 12 | 1785 | <20 | 0.35 | <10 | <10 |
| L174499 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174500 | | 6.49 | 1195 | <1 | 2.58 | 281 | 2210 | 6 | 0.20 | <5 | 31 | 1160 | <20 | 0.65 | <10 | <10 |
| N459001 | | 0.59 | 322 | 1 | 7.28 | 18 | 1010 | 7 | <0.01 | 13 | 6 | 511 | <20 | 0.18 | <10 | <10 |
| N459002 | | 2.35 | 1025 | 1 | 2.42 | 24 | 3180 | 27 | 0.01 | 7 | 17 | 2570 | 20 | 0.41 | <10 | <10 |
| N459003 | | 2.15 | 948 | <1 | 3.09 | 27 | 2520 | 17 | 0.03 | <5 | 14 | 1400 | <20 | 0.40 | 10 | <10 |
| N459004 | | 2.72 | 997 | 1 | 2.65 | 29 | 2840 | 26 | 0.01 | <5 | 18 | 1315 | 20 | 0.45 | <10 | <10 |
| N459005 | | 1.70 | 872 | <1 | 3.54 | 25 | 1810 | 32 | 0.02 | 8 | 10 | 1695 | 20 | 0.32 | <10 | <10 |
| N459006 | | 6.89 | 1465 | 1 | 1.38 | 50 | 9450 | 16 | <0.01 | <5 | 56 | 789 | 20 | 0.35 | <10 | <10 |
| N459007 | | 3.37 | 1630 | 3 | 1.34 | 63 | 970 | 8 | 0.10 | <5 | 24 | 192 | <20 | 0.60 | 10 | <10 |
| N459008 | | 2.19 | 1130 | 1 | 2.82 | 27 | 2660 | 28 | 0.01 | <5 | 14 | 1615 | 20 | 0.42 | <10 | <10 |
| N459009 | | 1.64 | 1070 | 1 | 2.63 | 51 | 990 | 7 | 0.18 | 6 | 11 | 686 | <20 | 0.27 | <10 | <10 |
| N459010 | | 1.26 | 599 | <1 | 3.53 | 14 | 1010 | 11 | 0.08 | 9 | 12 | 671 | <20 | 0.27 | <10 | <10 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042671

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP61<br>V<br>ppm<br>1 | ME-ICP61<br>W<br>ppm<br>10 | ME-ICP61<br>Zn<br>ppm<br>2 |
|---|---|---|---|---|
| L174481 | | 122 | <10 | 97 |
| L174482 | | 20 | <10 | 8 |
| L174483 | | 68 | <10 | 19 |
| L174484 | | 79 | 20 | 32 |
| L174485 | | 58 | <10 | 18 |
| L174486 | | 88 | <10 | 122 |
| L174487 | | 68 | <10 | 61 |
| L174488 | | 72 | <10 | 42 |
| L174489 | | 37 | <10 | 46 |
| L174490 | | 68 | <10 | 66 |
| L174491 | | 119 | <10 | 140 |
| L174492 | | 76 | <10 | 72 |
| L174493 | | 68 | <10 | 8 |
| L174494 | | 174 | <10 | 108 |
| L174495 | | 83 | <10 | 32 |
| L174496 | | 140 | <10 | 85 |
| L174497 | | 115 | <10 | 88 |
| L174498 | | 124 | <10 | 95 |
| L174499 | | NSS | NSS | NSS |
| L174500 | | 263 | <10 | 100 |
| N459001 | | 93 | <10 | 7 |
| N459002 | | 164 | <10 | 102 |
| N459003 | | 137 | <10 | 89 |
| N459004 | | 152 | <10 | 124 |
| N459005 | | 104 | <10 | 124 |
| N459006 | | 104 | <10 | 113 |
| N459007 | | 200 | <10 | 193 |
| N459008 | | 149 | <10 | 110 |
| N459009 | | 104 | <10 | 102 |
| N459010 | | 135 | <10 | 85 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042671

## CERTIFICATE COMMENTS

### ANALYTICAL COMMENTS

NSS is non-sufficient sample.
Applies to Method: ALL METHODS

### LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
Applies to Method: FND-02

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Applies to Method: ME-ICP61