ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **OSISKO MINING LTD.**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042675

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 178 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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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N443655 | | <0.5 | 7.60 | <5 | 340 | 4.0 | <2 | 8.02 | <0.5 | 10 | 102 | 16 | 6.59 | 20 | 1.12 | 10 |
| N443656 | | <0.5 | 9.05 | <5 | 510 | 1.3 | <2 | 0.48 | <0.5 | 2 | 6 | 17 | 1.53 | 30 | 5.09 | 10 |
| N443657 | | <0.5 | 7.95 | <5 | 2580 | 1.1 | <2 | 2.27 | <0.5 | 11 | 51 | 82 | 3.39 | 20 | 4.54 | 50 |
| N443658 | | <0.5 | 8.09 | 9 | 3020 | 1.1 | <2 | 2.29 | <0.5 | 10 | 52 | 41 | 3.49 | 20 | 4.57 | 50 |
| N443659 | | <0.5 | 8.09 | <5 | 1130 | 0.9 | 3 | 4.09 | <0.5 | 35 | 117 | 127 | 5.08 | 20 | 1.20 | 10 |
| N443660 | | <0.5 | 7.41 | <5 | 870 | 0.5 | <2 | 5.08 | <0.5 | 36 | 141 | 32 | 6.73 | 20 | 1.86 | <10 |
| N443661 | | <0.5 | 6.28 | <5 | 270 | <0.5 | <2 | 6.10 | <0.5 | 45 | 415 | 86 | 6.97 | 10 | 1.53 | 10 |
| N443662 | | <0.5 | 6.99 | <5 | 240 | 0.8 | <2 | 4.66 | <0.5 | 49 | 6 | 85 | 8.25 | 20 | 1.18 | 10 |
| N443663 | | <0.5 | 5.93 | 11 | 200 | 0.6 | <2 | 7.30 | <0.5 | 65 | 217 | 298 | 8.97 | 20 | 0.45 | 10 |
| N443664 | | <0.5 | 8.04 | 7 | 2640 | 1.8 | <2 | 1.81 | <0.5 | 8 | 60 | 10 | 2.44 | 20 | 3.81 | 40 |
| N443675 | | <0.5 | 8.29 | <5 | 2780 | 0.8 | <2 | 0.98 | <0.5 | 4 | 20 | 9 | 1.50 | 20 | 4.43 | 20 |
| N443676 | | <0.5 | 8.02 | <5 | 2060 | 1.4 | <2 | 1.47 | <0.5 | 8 | 34 | 19 | 2.78 | 20 | 5.20 | 50 |
| N443677 | | <0.5 | 7.81 | <5 | 2500 | 2.6 | <2 | 2.73 | <0.5 | 13 | 57 | 25 | 3.37 | 20 | 4.68 | 70 |
| N443678 | | <0.5 | 8.36 | <5 | 3390 | 1.5 | <2 | 1.83 | <0.5 | 11 | 46 | 10 | 3.10 | 20 | 4.47 | 40 |
| N443679 | | <0.5 | 8.07 | <5 | 2440 | 2.1 | <2 | 2.22 | <0.5 | 11 | 64 | 17 | 3.19 | 20 | 4.66 | 50 |
| N443680 | | <0.5 | 8.43 | <5 | 2500 | 1.5 | <2 | 1.90 | <0.5 | 10 | 42 | 44 | 3.03 | 20 | 4.77 | 60 |
| N443681 | | <0.5 | 8.18 | <5 | 3210 | 0.9 | <2 | 1.82 | <0.5 | 9 | 37 | 18 | 2.79 | 20 | 4.18 | 40 |
| N443682 | | <0.5 | 8.28 | <5 | 2750 | 1.1 | <2 | 1.73 | <0.5 | 8 | 35 | 33 | 2.62 | 20 | 4.78 | 60 |
| N443683 | | <0.5 | 5.21 | <5 | 1990 | 0.6 | <2 | 7.58 | <0.5 | 61 | 597 | 66 | 8.91 | 20 | 2.98 | 40 |
| N443684 | | <0.5 | 7.93 | <5 | 2410 | 1.4 | <2 | 1.64 | <0.5 | 9 | 39 | 63 | 2.92 | 20 | 4.80 | 60 |
| N443685 | | <0.5 | 7.87 | <5 | 2370 | 1.7 | <2 | 2.20 | <0.5 | 11 | 66 | 8 | 3.59 | 20 | 4.40 | 50 |
| N443686 | | <0.5 | 7.58 | <5 | 1950 | 1.9 | <2 | 1.67 | <0.5 | 8 | 38 | 38 | 2.84 | 20 | 4.41 | 70 |
| N443687 | | <0.5 | 8.38 | <5 | 1610 | 2.2 | <2 | 0.52 | <0.5 | 3 | 12 | 16 | 1.51 | 20 | 5.12 | 20 |
| N443688 | | <0.5 | 8.44 | <5 | 1700 | 1.4 | <2 | 0.92 | <0.5 | 6 | 27 | 14 | 2.11 | 20 | 5.04 | 40 |
| N443689 | | 2.0 | 7.84 | <5 | 710 | 1.9 | <2 | 1.25 | <0.5 | 8 | 48 | 11 | 2.59 | 30 | 1.99 | 50 |
| N443690 | | <0.5 | 8.53 | <5 | 1770 | 1.6 | <2 | 1.29 | <0.5 | 6 | 29 | 24 | 2.43 | 20 | 4.80 | 50 |
| N443691 | | <0.5 | 6.94 | <5 | 2480 | 2.2 | <2 | 5.41 | <0.5 | 45 | 244 | 178 | 6.94 | 20 | 2.25 | 50 |
| N443692 | | <0.5 | 8.30 | <5 | 1700 | 3.2 | <2 | 0.87 | <0.5 | 6 | 30 | 58 | 2.29 | 20 | 4.66 | 40 |
| N443693 | | <0.5 | 8.09 | 5 | 3150 | 1.5 | <2 | 5.40 | <0.5 | 26 | 129 | 112 | 6.17 | 20 | 1.50 | 50 |
| N443694 | | <0.5 | 8.06 | <5 | 2170 | 2.1 | <2 | 1.80 | <0.5 | 9 | 40 | 58 | 2.96 | 20 | 4.72 | 50 |
| N443695 | | <0.5 | 8.08 | <5 | 2020 | 2.0 | <2 | 1.75 | <0.5 | 10 | 42 | 21 | 2.98 | 20 | 4.69 | 60 |
| N443696 | | <0.5 | 8.10 | <5 | 2280 | 2.0 | <2 | 1.87 | <0.5 | 9 | 42 | 38 | 3.04 | 20 | 4.73 | 60 |
| N443697 | | <0.5 | 8.00 | <5 | 2430 | 1.3 | <2 | 1.87 | <0.5 | 10 | 44 | 22 | 3.10 | 20 | 4.68 | 40 |
| N443698 | | <0.5 | 8.08 | <5 | 2390 | 1.7 | <2 | 1.95 | <0.5 | 9 | 43 | 34 | 2.95 | 20 | 4.57 | 40 |
| N443699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443700 | | <0.5 | 7.73 | <5 | 2160 | 2.2 | <2 | 1.74 | <0.5 | 10 | 41 | 90 | 3.01 | 20 | 4.42 | 60 |
| N443701 | | <0.5 | 8.02 | <5 | 2030 | 2.0 | <2 | 1.36 | <0.5 | 7 | 36 | 50 | 2.21 | 20 | 4.60 | 60 |
| N443702 | | <0.5 | 7.35 | <5 | 1560 | 2.9 | <2 | 1.14 | <0.5 | 6 | 30 | 4 | 2.11 | 20 | 4.25 | 40 |
| N443703 | | <0.5 | 8.31 | <5 | 1290 | 4.2 | <2 | 1.26 | <0.5 | 3 | 27 | 57 | 2.49 | 20 | 4.40 | 40 |
| N443704 | | <0.5 | 7.95 | <5 | 1680 | 1.7 | <2 | 1.06 | <0.5 | 7 | 32 | 20 | 2.36 | 20 | 4.52 | 50 |

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**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
| N443655 | | 2.45 | 1430 | <1 | 2.82 | 70 | 520 | 6 | 0.06 | 5 | 51 | 1385 | <20 | 0.86 | <10 | <10 |
| N443656 | | 0.09 | 170 | <1 | 4.98 | 3 | 80 | 28 | 0.02 | <5 | 1 | 301 | <20 | 0.14 | <10 | <10 |
| N443657 | | 1.21 | 747 | <1 | 4.00 | 22 | 1270 | 22 | 0.01 | 6 | 7 | 1840 | <20 | 0.30 | <10 | <10 |
| N443658 | | 1.25 | 685 | <1 | 4.03 | 26 | 1330 | 22 | 0.01 | 5 | 7 | 2010 | <20 | 0.31 | <10 | <10 |
| N443659 | | 2.48 | 967 | <1 | 4.18 | 91 | 600 | 12 | 0.64 | <5 | 38 | 998 | <20 | 0.67 | <10 | <10 |
| N443660 | | 3.76 | 1665 | <1 | 2.43 | 83 | 140 | 5 | 0.14 | <5 | 55 | 885 | <20 | 0.65 | <10 | <10 |
| N443661 | | 5.17 | 1220 | <1 | 1.34 | 157 | 260 | 5 | 0.03 | <5 | 32 | 313 | <20 | 0.39 | <10 | <10 |
| N443662 | | 2.01 | 1650 | <1 | 3.95 | 38 | 720 | 14 | 0.10 | 5 | 57 | 631 | <20 | 1.37 | <10 | <10 |
| N443663 | | 4.20 | 1575 | <1 | 2.51 | 155 | 910 | 3 | 1.49 | <5 | 44 | 441 | <20 | 0.65 | <10 | <10 |
| N443664 | | 0.97 | 542 | <1 | 4.47 | 28 | 820 | 32 | 0.01 | <5 | 5 | 1975 | <20 | 0.20 | <10 | <10 |
| N443675 | | 0.41 | 260 | <1 | 4.80 | 9 | 410 | 23 | 0.01 | 5 | 2 | 2140 | <20 | 0.13 | 10 | <10 |
| N443676 | | 0.81 | 584 | <1 | 4.02 | 12 | 830 | 26 | 0.01 | <5 | 5 | 1345 | <20 | 0.27 | <10 | <10 |
| N443677 | | 1.46 | 819 | 1 | 4.12 | 22 | 1710 | 21 | 0.01 | <5 | 9 | 1485 | <20 | 0.27 | <10 | <10 |
| N443678 | | 1.07 | 602 | <1 | 4.56 | 19 | 1070 | 29 | 0.01 | <5 | 6 | 2180 | <20 | 0.27 | <10 | <10 |
| N443679 | | 1.34 | 724 | <1 | 4.17 | 23 | 1330 | 29 | 0.01 | <5 | 8 | 1750 | <20 | 0.26 | <10 | <10 |
| N443680 | | 1.03 | 632 | <1 | 4.47 | 16 | 1100 | 28 | 0.01 | <5 | 6 | 1735 | <20 | 0.33 | <10 | <10 |
| N443681 | | 0.88 | 561 | <1 | 4.57 | 16 | 970 | 24 | <0.01 | <5 | 5 | 1980 | <20 | 0.27 | <10 | <10 |
| N443682 | | 0.81 | 592 | <1 | 4.34 | 14 | 910 | 23 | <0.01 | <5 | 5 | 1900 | <20 | 0.34 | <10 | <10 |
| N443683 | | 9.16 | 2130 | <1 | 0.53 | 211 | 3350 | 16 | 0.03 | <5 | 35 | 572 | <20 | 0.53 | <10 | <10 |
| N443684 | | 0.96 | 611 | <1 | 4.23 | 17 | 1010 | 23 | 0.01 | <5 | 6 | 1500 | <20 | 0.33 | <10 | <10 |
| N443685 | | 1.33 | 686 | <1 | 4.11 | 23 | 1390 | 12 | <0.01 | <5 | 9 | 1385 | <20 | 0.30 | <10 | <10 |
| N443686 | | 0.86 | 597 | <1 | 4.23 | 16 | 900 | 25 | <0.01 | <5 | 5 | 1325 | 20 | 0.41 | <10 | <10 |
| N443687 | | 0.22 | 200 | <1 | 4.59 | 6 | 220 | 40 | 0.01 | <5 | 1 | 1090 | 20 | 0.18 | <10 | <10 |
| N443688 | | 0.54 | 419 | <1 | 4.87 | 11 | 570 | 19 | 0.01 | <5 | 3 | 1175 | <20 | 0.21 | <10 | <10 |
| N443689 | | 1.11 | 561 | <1 | 6.37 | 18 | 820 | 12 | <0.01 | <5 | 6 | 723 | <20 | 0.27 | <10 | <10 |
| N443690 | | 0.66 | 486 | <1 | 4.83 | 11 | 670 | 27 | <0.01 | <5 | 4 | 1275 | <20 | 0.27 | <10 | <10 |
| N443691 | | 4.21 | 1590 | <1 | 3.06 | 60 | 2910 | 11 | 0.09 | <5 | 23 | 1595 | <20 | 0.54 | <10 | <10 |
| N443692 | | 0.64 | 460 | <1 | 4.80 | 10 | 580 | 24 | 0.01 | <5 | 4 | 1030 | <20 | 0.22 | <10 | <10 |
| N443693 | | 3.10 | 1200 | <1 | 4.62 | 48 | 2610 | 9 | 0.19 | <5 | 17 | 1345 | <20 | 0.48 | <10 | <10 |
| N443694 | | 1.04 | 691 | 1 | 4.36 | 17 | 1080 | 27 | 0.01 | <5 | 6 | 1510 | <20 | 0.24 | <10 | <10 |
| N443695 | | 0.97 | 689 | 1 | 4.41 | 16 | 1000 | 21 | <0.01 | 5 | 6 | 1285 | <20 | 0.33 | 10 | <10 |
| N443696 | | 1.05 | 645 | <1 | 4.45 | 18 | 1120 | 26 | 0.01 | <5 | 6 | 1565 | <20 | 0.25 | <10 | <10 |
| N443697 | | 1.00 | 628 | <1 | 4.24 | 17 | 1130 | 25 | <0.01 | <5 | 6 | 1725 | <20 | 0.21 | <10 | <10 |
| N443698 | | 1.08 | 777 | <1 | 4.35 | 16 | 1150 | 24 | <0.01 | <5 | 6 | 1670 | <20 | 0.19 | <10 | <10 |
| N443699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443700 | | 0.97 | 677 | <1 | 4.21 | 17 | 1060 | 27 | 0.01 | <5 | 6 | 1460 | <20 | 0.31 | <10 | <10 |
| N443701 | | 0.89 | 451 | <1 | 4.30 | 17 | 830 | 25 | 0.01 | <5 | 5 | 1310 | <20 | 0.31 | <10 | <10 |
| N443702 | | 0.63 | 485 | 1 | 4.45 | 12 | 600 | 25 | 0.01 | <5 | 3 | 1045 | <20 | 0.21 | <10 | <10 |
| N443703 | | 0.58 | 499 | 3 | 4.96 | 9 | 440 | 34 | 0.10 | <5 | 3 | 1000 | <20 | 0.33 | <10 | <10 |
| N443704 | | 0.66 | 493 | <1 | 4.75 | 12 | 720 | 23 | <0.01 | <5 | 4 | 1115 | <20 | 0.24 | <10 | <10 |

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**Finalized Date: 27-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|
| N443655 | | 352 | <10 | 72 |
| N443656 | | 37 | <10 | 15 |
| N443657 | | 90 | <10 | 76 |
| N443658 | | 91 | <10 | 84 |
| N443659 | | 295 | <10 | 78 |
| N443660 | | 261 | <10 | 135 |
| N443661 | | 209 | <10 | 89 |
| N443662 | | 596 | <10 | 123 |
| N443663 | | 315 | <10 | 70 |
| N443664 | | 60 | <10 | 56 |
| N443675 | | 41 | <10 | 33 |
| N443676 | | 77 | <10 | 60 |
| N443677 | | 88 | <10 | 90 |
| N443678 | | 83 | <10 | 71 |
| N443679 | | 80 | <10 | 94 |
| N443680 | | 82 | <10 | 72 |
| N443681 | | 78 | <10 | 69 |
| N443682 | | 72 | <10 | 62 |
| N443683 | | 224 | <10 | 249 |
| N443684 | | 78 | <10 | 72 |
| N443685 | | 95 | <10 | 55 |
| N443686 | | 76 | <10 | 66 |
| N443687 | | 40 | <10 | 23 |
| N443688 | | 50 | <10 | 44 |
| N443689 | | 96 | <10 | 67 |
| N443690 | | 65 | <10 | 52 |
| N443691 | | 205 | <10 | 152 |
| N443692 | | 56 | <10 | 50 |
| N443693 | | 188 | <10 | 111 |
| N443694 | | 73 | <10 | 89 |
| N443695 | | 79 | <10 | 75 |
| N443696 | | 79 | <10 | 79 |
| N443697 | | 83 | <10 | 70 |
| N443698 | | 75 | <10 | 80 |
| N443699 | | NSS | NSS | NSS |
| N443700 | | 78 | <10 | 81 |
| N443701 | | 56 | <10 | 61 |
| N443702 | | 55 | <10 | 49 |
| N443703 | | 64 | <10 | 45 |
| N443704 | | 61 | <10 | 56 |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N443705 | | <0.5 | 7.10 | <5 | 1780 | 1.8 | <2 | 1.15 | <0.5 | 7 | 37 | 24 | 2.30 | 20 | 4.43 | 40 |
| N443706 | | <0.5 | 7.59 | <5 | 1860 | 1.9 | <2 | 1.27 | <0.5 | 9 | 42 | 43 | 2.49 | 20 | 4.36 | 40 |
| N443707 | | <0.5 | 7.94 | <5 | 2470 | 2.4 | <2 | 1.74 | <0.5 | 10 | 47 | 38 | 3.30 | 20 | 4.70 | 40 |
| N443708 | | <0.5 | 7.11 | <5 | 1190 | 3.5 | <2 | 4.33 | <0.5 | 27 | 155 | 75 | 5.67 | 20 | 2.17 | 50 |
| N443709 | | <0.5 | 7.47 | <5 | 2740 | 3.2 | <2 | 2.24 | <0.5 | 11 | 48 | 12 | 2.83 | 20 | 4.18 | 40 |
| N443710 | | <0.5 | 6.98 | <5 | 3090 | 2.8 | <2 | 2.59 | <0.5 | 13 | 80 | 14 | 3.56 | 20 | 4.76 | 60 |
| N443711 | | <0.5 | 7.80 | <5 | 2260 | 2.4 | <2 | 1.59 | <0.5 | 8 | 44 | 20 | 2.56 | 20 | 4.33 | 50 |
| N443712 | | <0.5 | 7.98 | <5 | 1910 | 2.5 | <2 | 1.68 | <0.5 | 8 | 43 | 21 | 2.76 | 20 | 4.44 | 50 |
| N443713 | | <0.5 | 7.99 | <5 | 1810 | 5.5 | <2 | 1.47 | <0.5 | 7 | 36 | 12 | 2.78 | 20 | 4.55 | 60 |
| N443714 | | <0.5 | 8.08 | <5 | 1860 | 2.3 | <2 | 1.29 | <0.5 | 6 | 34 | 16 | 2.28 | 20 | 4.59 | 50 |
| L179493 | | <0.5 | 7.09 | 12 | 1570 | 1.7 | <2 | 3.37 | <0.5 | 25 | 175 | 56 | 5.03 | 20 | 2.21 | 40 |
| L179494 | | <0.5 | 7.05 | 6 | 590 | 1.3 | <2 | 2.96 | <0.5 | 26 | 146 | 54 | 5.39 | 20 | 1.06 | 20 |
| L179495 | | <0.5 | 7.10 | 5 | 1320 | 0.8 | <2 | 2.24 | <0.5 | 21 | 266 | 43 | 5.19 | 20 | 1.81 | 30 |
| L179496 | | <0.5 | 7.15 | <5 | 60 | <0.5 | <2 | 5.16 | <0.5 | 43 | 212 | 120 | 7.98 | 20 | 0.20 | <10 |
| L179497 | | <0.5 | 7.19 | 5 | 80 | <0.5 | <2 | 5.31 | <0.5 | 46 | 130 | 105 | 7.15 | 20 | 0.15 | 10 |
| L179498 | | <0.5 | 7.16 | <5 | 990 | 1.3 | <2 | 1.07 | <0.5 | 23 | 193 | 13 | 3.72 | 20 | 2.04 | 30 |
| L179499 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L179500 | | <0.5 | 7.28 | 5 | 790 | 1.7 | <2 | 1.62 | <0.5 | 36 | 216 | 66 | 7.79 | 20 | 2.46 | 10 |
| L179501 | | <0.5 | 7.53 | <5 | 540 | 1.4 | <2 | 1.33 | <0.5 | 32 | 175 | 38 | 6.51 | 20 | 0.82 | 10 |
| L179502 | | <0.5 | 6.21 | <5 | 1340 | 1.6 | <2 | 3.66 | <0.5 | 37 | 364 | 17 | 5.49 | 20 | 2.08 | 50 |
| L179503 | | <0.5 | 6.92 | <5 | 1290 | 1.6 | <2 | 1.48 | <0.5 | 15 | 108 | 20 | 3.59 | 20 | 2.52 | 20 |
| L179504 | | <0.5 | 7.58 | <5 | 150 | 0.6 | <2 | 2.94 | <0.5 | 27 | 90 | 3 | 5.38 | 20 | 0.49 | 10 |
| L179505 | | <0.5 | 7.69 | <5 | 50 | <0.5 | <2 | 7.92 | <0.5 | 39 | 215 | 105 | 5.04 | 20 | 0.15 | <10 |
| L179506 | | <0.5 | 6.40 | <5 | 1900 | 1.7 | <2 | 3.95 | <0.5 | 30 | 354 | 26 | 5.75 | 20 | 2.91 | 30 |
| L179507 | | <0.5 | 6.77 | 5 | 910 | 1.0 | <2 | 2.62 | <0.5 | 27 | 236 | 40 | 4.97 | 20 | 1.56 | 30 |
| L179508 | | <0.5 | 6.34 | 10 | 630 | 1.1 | <2 | 2.28 | <0.5 | 30 | 359 | 42 | 5.04 | 20 | 1.47 | 20 |
| L179509 | | <0.5 | 7.30 | 9 | 750 | 1.3 | <2 | 2.36 | <0.5 | 27 | 238 | 44 | 4.86 | 20 | 1.45 | 30 |
| L179510 | | <0.5 | 6.83 | <5 | 380 | 1.5 | <2 | 4.59 | <0.5 | 31 | 238 | 37 | 6.14 | 20 | 1.19 | 40 |
| L179511 | | <0.5 | 4.93 | 5 | 860 | 2.2 | <2 | 6.29 | <0.5 | 50 | 725 | 25 | 6.22 | 10 | 2.14 | 70 |
| L179512 | | <0.5 | 5.77 | <5 | 930 | 1.7 | <2 | 4.84 | <0.5 | 39 | 379 | 51 | 6.64 | 20 | 2.21 | 20 |
| L179513 | | <0.5 | 6.52 | 12 | 650 | 1.0 | <2 | 2.42 | <0.5 | 29 | 260 | 42 | 4.92 | 20 | 1.36 | 20 |
| L179514 | | <0.5 | 6.44 | 6 | 800 | 1.0 | <2 | 1.61 | <0.5 | 21 | 147 | 38 | 3.49 | 20 | 1.51 | 20 |
| L179515 | | <0.5 | 6.57 | 6 | 530 | 1.2 | <2 | 2.76 | <0.5 | 30 | 178 | 46 | 5.27 | 20 | 0.95 | 20 |
| L179516 | | <0.5 | 6.79 | <5 | 600 | 1.0 | <2 | 2.12 | <0.5 | 16 | 78 | 27 | 3.51 | 20 | 1.27 | 10 |
| L179517 | | <0.5 | 7.33 | 14 | 850 | 1.8 | <2 | 3.51 | <0.5 | 23 | 156 | 33 | 4.77 | 20 | 1.25 | 40 |
| L179518 | | <0.5 | 7.04 | 20 | 1620 | 1.7 | <2 | 2.35 | <0.5 | 24 | 173 | 61 | 4.88 | 20 | 2.23 | 20 |
| L179519 | | <0.5 | 6.28 | 31 | 330 | 1.4 | <2 | 4.25 | <0.5 | 40 | 1025 | 57 | 9.66 | 20 | 0.76 | 70 |
| L179520 | | <0.5 | 7.48 | <5 | 1780 | 1.8 | <2 | 1.84 | <0.5 | 14 | 80 | 27 | 3.34 | 20 | 1.02 | 30 |
| L174411 | | <0.5 | 8.16 | 5 | 2160 | 2.6 | <2 | 1.49 | <0.5 | 13 | 93 | 172 | 3.62 | 20 | 4.05 | 40 |
| L174412 | | <0.5 | 7.96 | 12 | 1050 | 2.7 | 2 | 1.41 | <0.5 | 22 | 60 | 18 | 6.20 | 20 | 3.31 | 40 |

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

ALS Canada Ltd.
2103 Dollarton Hwy
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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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N443705 | | 0.71 | 534 | <1 | 4.44 | 13 | 660 | 23 | <0.01 | <5 | 4 | 1190 | <20 | 0.23 | <10 | <10 |
| N443706 | | 0.83 | 609 | <1 | 4.39 | 15 | 820 | 23 | <0.01 | <5 | 5 | 1200 | <20 | 0.24 | <10 | <10 |
| N443707 | | 0.97 | 680 | 1 | 4.03 | 17 | 1180 | 25 | 0.02 | <5 | 6 | 1565 | <20 | 0.30 | <10 | <10 |
| N443708 | | 3.03 | 1205 | <1 | 3.92 | 76 | 1640 | 52 | 0.16 | <5 | 17 | 1110 | <20 | 0.41 | <10 | <10 |
| N443709 | | 1.11 | 697 | <1 | 4.24 | 21 | 990 | 25 | 0.02 | <5 | 7 | 1580 | 20 | 0.23 | <10 | <10 |
| N443710 | | 1.59 | 916 | <1 | 3.47 | 27 | 1570 | 22 | 0.01 | 6 | 9 | 1970 | 20 | 0.29 | <10 | <10 |
| N443711 | | 0.88 | 588 | <1 | 4.50 | 18 | 860 | 25 | <0.01 | <5 | 5 | 1580 | <20 | 0.23 | <10 | <10 |
| N443712 | | 0.89 | 679 | <1 | 4.54 | 16 | 860 | 28 | <0.01 | <5 | 5 | 1405 | <20 | 0.26 | <10 | <10 |
| N443713 | | 0.84 | 684 | 1 | 4.62 | 13 | 840 | 35 | 0.01 | <5 | 5 | 1215 | 20 | 0.29 | <10 | <10 |
| N443714 | | 0.69 | 498 | <1 | 4.70 | 13 | 630 | 21 | <0.01 | <5 | 4 | 1285 | <20 | 0.24 | <10 | <10 |
| L179493 | | 1.81 | 1030 | 3 | 2.26 | 93 | 830 | 21 | 0.15 | <5 | 13 | 1005 | <20 | 0.36 | <10 | <10 |
| L179494 | | 2.25 | 1110 | <1 | 2.94 | 100 | 700 | 9 | 0.09 | <5 | 20 | 725 | <20 | 0.42 | 10 | <10 |
| L179495 | | 1.89 | 904 | <1 | 3.71 | 127 | 1380 | 10 | 0.05 | <5 | 13 | 436 | <20 | 0.33 | <10 | <10 |
| L179496 | | 4.18 | 1995 | <1 | 0.94 | 79 | 200 | 3 | 0.33 | <5 | 39 | 80 | <20 | 0.47 | <10 | <10 |
| L179497 | | 4.75 | 1335 | 1 | 2.14 | 69 | 300 | 4 | 0.14 | <5 | 36 | 137 | <20 | 0.61 | <10 | <10 |
| L179498 | | 2.47 | 572 | <1 | 3.27 | 120 | 980 | 9 | 0.01 | <5 | 13 | 515 | <20 | 0.31 | <10 | <10 |
| L179499 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L179500 | | 2.82 | 752 | 1 | 1.88 | 148 | 720 | 9 | 0.09 | <5 | 30 | 237 | <20 | 0.59 | <10 | <10 |
| L179501 | | 3.05 | 1400 | <1 | 3.14 | 138 | 590 | 4 | 0.02 | <5 | 21 | 543 | <20 | 0.43 | <10 | <10 |
| L179502 | | 4.54 | 919 | <1 | 2.64 | 211 | 1500 | 15 | <0.01 | <5 | 22 | 838 | <20 | 0.41 | <10 | <10 |
| L179503 | | 1.99 | 586 | <1 | 3.40 | 34 | 1440 | 15 | 0.01 | <5 | 11 | 415 | <20 | 0.28 | <10 | <10 |
| L179504 | | 3.92 | 1230 | <1 | 2.86 | 74 | 790 | <2 | <0.01 | <5 | 18 | 203 | <20 | 0.53 | <10 | <10 |
| L179505 | | 2.31 | 1385 | <1 | 1.44 | 84 | 200 | <2 | 0.14 | <5 | 42 | 183 | <20 | 0.50 | <10 | <10 |
| L179506 | | 3.96 | 1010 | <1 | 2.21 | 151 | 1320 | 5 | 0.03 | <5 | 19 | 540 | <20 | 0.44 | <10 | <10 |
| L179507 | | 2.78 | 1130 | <1 | 2.52 | 112 | 870 | 9 | 0.11 | <5 | 18 | 600 | <20 | 0.40 | 10 | <10 |
| L179508 | | 2.70 | 791 | 1 | 3.10 | 132 | 780 | 5 | 0.25 | <5 | 20 | 469 | <20 | 0.39 | <10 | <10 |
| L179509 | | 3.47 | 1030 | <1 | 3.32 | 104 | 1090 | 4 | <0.01 | <5 | 17 | 489 | <20 | 0.46 | <10 | <10 |
| L179510 | | 4.29 | 992 | <1 | 3.74 | 75 | 1820 | 3 | 0.01 | <5 | 20 | 768 | <20 | 0.53 | <10 | <10 |
| L179511 | | 8.61 | 1150 | <1 | 0.96 | 411 | 2820 | 5 | 0.01 | <5 | 21 | 915 | 20 | 0.45 | <10 | <10 |
| L179512 | | 5.04 | 1135 | <1 | 2.29 | 133 | 1580 | 2 | <0.01 | <5 | 25 | 310 | <20 | 0.49 | <10 | <10 |
| L179513 | | 2.39 | 905 | <1 | 2.67 | 116 | 790 | 6 | 0.26 | 7 | 19 | 572 | <20 | 0.41 | <10 | <10 |
| L179514 | | 1.68 | 590 | 1 | 2.90 | 86 | 680 | 5 | 0.11 | 5 | 13 | 454 | <20 | 0.35 | <10 | <10 |
| L179515 | | 2.68 | 1215 | 1 | 2.41 | 141 | 620 | 11 | 0.07 | <5 | 16 | 470 | <20 | 0.33 | <10 | <10 |
| L179516 | | 1.47 | 758 | <1 | 2.86 | 47 | 490 | 4 | 0.08 | <5 | 10 | 695 | <20 | 0.28 | <10 | <10 |
| L179517 | | 1.73 | 1035 | 1 | 3.33 | 98 | 1280 | 12 | 0.23 | <5 | 17 | 943 | <20 | 0.40 | <10 | <10 |
| L179518 | | 1.93 | 996 | <1 | 2.30 | 115 | 910 | 9 | 0.06 | <5 | 15 | 682 | <20 | 0.39 | <10 | <10 |
| L179519 | | 3.11 | 1230 | 2 | 1.53 | 171 | 1330 | 13 | 1.19 | <5 | 38 | 388 | <20 | 0.96 | <10 | <10 |
| L179520 | | 1.74 | 472 | <1 | 4.21 | 28 | 1460 | 2 | 0.08 | <5 | 11 | 235 | <20 | 0.29 | <10 | <10 |
| L174411 | | 1.11 | 1100 | 1 | 2.39 | 24 | 1110 | 15 | 0.08 | 5 | 12 | 519 | <20 | 0.26 | <10 | <10 |
| L174412 | | 2.08 | 1520 | <1 | 1.97 | 21 | 1880 | <2 | 0.11 | <5 | 21 | 288 | <20 | 0.34 | <10 | <10 |

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

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


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|
| N443705 | | 59 | <10 | 64 |
| N443706 | | 66 | <10 | 56 |
| N443707 | | 84 | <10 | 67 |
| N443708 | | 151 | <10 | 118 |
| N443709 | | 75 | <10 | 63 |
| N443710 | | 93 | <10 | 109 |
| N443711 | | 65 | <10 | 69 |
| N443712 | | 70 | <10 | 70 |
| N443713 | | 73 | <10 | 79 |
| N443714 | | 57 | <10 | 61 |
| L179493 | | 141 | <10 | 88 |
| L179494 | | 154 | <10 | 88 |
| L179495 | | 120 | <10 | 82 |
| L179496 | | 279 | <10 | 116 |
| L179497 | | 323 | <10 | 73 |
| L179498 | | 103 | <10 | 92 |
| L179499 | | NSS | NSS | NSS |
| L179500 | | 267 | <10 | 96 |
| L179501 | | 159 | <10 | 118 |
| L179502 | | 146 | <10 | 106 |
| L179503 | | 88 | <10 | 69 |
| L179504 | | 164 | <10 | 98 |
| L179505 | | 295 | <10 | 49 |
| L179506 | | 148 | <10 | 95 |
| L179507 | | 138 | <10 | 98 |
| L179508 | | 135 | <10 | 91 |
| L179509 | | 139 | <10 | 98 |
| L179510 | | 173 | <10 | 91 |
| L179511 | | 153 | <10 | 128 |
| L179512 | | 180 | <10 | 103 |
| L179513 | | 141 | <10 | 90 |
| L179514 | | 109 | <10 | 71 |
| L179515 | | 122 | <10 | 100 |
| L179516 | | 80 | <10 | 64 |
| L179517 | | 119 | <10 | 76 |
| L179518 | | 136 | <10 | 92 |
| L179519 | | 323 | <10 | 146 |
| L179520 | | 100 | <10 | 70 |
| L174411 | | 113 | <10 | 92 |
| L174412 | | 204 | <10 | 138 |

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174413 | | <0.5 | 7.35 | 21 | 1440 | 2.0 | <2 | 3.48 | <0.5 | 20 | 110 | 22 | 6.29 | 20 | 2.97 | 40 |
| L174414 | | <0.5 | 6.62 | 21 | 1010 | 1.4 | <2 | 5.46 | <0.5 | 30 | 91 | 85 | 6.64 | 20 | 1.76 | 40 |
| L174415 | | <0.5 | 7.61 | 41 | 1770 | 3.5 | <2 | 2.66 | <0.5 | 26 | 46 | 86 | 7.14 | 20 | 3.30 | 50 |
| L174416 | | <0.5 | 7.95 | 19 | 1560 | 2.2 | <2 | 4.02 | <0.5 | 23 | 41 | 95 | 6.21 | 20 | 3.41 | 50 |
| L174417 | | <0.5 | 7.55 | 20 | 3140 | 2.6 | <2 | 4.12 | <0.5 | 17 | 46 | 106 | 5.40 | 20 | 2.34 | 50 |
| L174418 | | <0.5 | 8.70 | 8 | 1670 | 2.1 | <2 | 1.46 | <0.5 | 1 | 9 | 15 | 2.62 | 20 | 3.69 | 30 |
| L174419 | | <0.5 | 6.53 | 108 | 1300 | 1.7 | 2 | 3.38 | <0.5 | 22 | 87 | 33 | 4.57 | 20 | 3.60 | 30 |
| L174420 | | 3.6 | 8.29 | 156 | 210 | 1.2 | 3 | 1.31 | 0.8 | 17 | 36 | 193 | 4.24 | 20 | 4.46 | 30 |
| L178651 | | <0.5 | 6.04 | 7 | 1490 | 0.9 | <2 | 3.24 | <0.5 | 29 | 208 | 52 | 5.55 | 10 | 1.00 | 20 |
| L178652 | | <0.5 | 7.47 | <5 | 3210 | 1.7 | <2 | 2.32 | <0.5 | 11 | 60 | 15 | 3.08 | 20 | 2.23 | 30 |
| L178653 | | <0.5 | 7.84 | <5 | 2160 | 2.1 | <2 | 2.23 | <0.5 | 8 | 55 | 20 | 2.81 | 20 | 2.80 | 30 |
| L178654 | | <0.5 | 6.82 | 8 | 1930 | 1.9 | <2 | 5.18 | <0.5 | 24 | 127 | 53 | 6.21 | 20 | 1.86 | 50 |
| L178655 | | <0.5 | 7.69 | 10 | 2200 | 2.3 | <2 | 1.72 | <0.5 | 12 | 66 | 35 | 3.14 | 20 | 2.48 | 40 |
| L178656 | | <0.5 | 6.47 | 10 | 2060 | 1.8 | <2 | 2.82 | <0.5 | 13 | 61 | 29 | 3.29 | 20 | 2.21 | 30 |
| L178657 | | <0.5 | 8.09 | 5 | 2810 | 2.2 | <2 | 1.43 | <0.5 | 6 | 41 | 9 | 2.08 | 20 | 2.98 | 30 |
| L178658 | | <0.5 | 7.44 | 9 | 2300 | 2.2 | <2 | 2.31 | <0.5 | 11 | 61 | 24 | 3.42 | 20 | 2.84 | 30 |
| L178659 | | <0.5 | 7.38 | 16 | 1240 | 2.2 | <2 | 1.98 | <0.5 | 27 | 170 | 39 | 3.53 | 20 | 3.70 | 40 |
| L178660 | | <0.5 | 5.89 | 8 | 840 | 1.2 | <2 | 3.37 | <0.5 | 18 | 212 | 49 | 3.47 | 20 | 2.07 | 20 |
| L178661 | | <0.5 | 5.68 | 86 | 600 | 1.0 | <2 | 3.05 | <0.5 | 23 | 226 | 44 | 4.57 | 10 | 1.57 | 20 |
| L178662 | | <0.5 | 7.00 | 11 | 1220 | 1.2 | <2 | 2.23 | <0.5 | 39 | 309 | 55 | 6.01 | 20 | 1.45 | 20 |
| L178663 | | <0.5 | 6.75 | 5 | 2020 | 1.7 | <2 | 2.55 | <0.5 | 11 | 48 | 16 | 3.11 | 20 | 2.25 | 30 |
| L178664 | | <0.5 | 6.75 | 5 | 1570 | 1.5 | <2 | 3.18 | <0.5 | 15 | 86 | 23 | 3.41 | 20 | 2.17 | 40 |
| L178665 | | <0.5 | 6.12 | <5 | 1230 | 1.4 | <2 | 4.92 | <0.5 | 24 | 229 | 52 | 4.19 | 20 | 1.59 | 20 |
| L178666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178667 | | <0.5 | 8.23 | <5 | 1260 | 1.5 | <2 | 1.62 | <0.5 | 29 | 112 | 371 | 6.31 | 20 | 3.76 | 80 |
| L178668 | | <0.5 | 7.52 | 15 | 2160 | 2.5 | <2 | 4.41 | <0.5 | 31 | 99 | 73 | 6.29 | 20 | 4.71 | 70 |
| L178669 | | <0.5 | 9.12 | 11 | 4110 | 4.2 | <2 | 1.94 | <0.5 | 19 | 29 | 126 | 5.03 | 20 | 5.60 | 80 |
| L178670 | | <0.5 | 9.91 | 9 | 3510 | 5.4 | <2 | 1.11 | <0.5 | 9 | 3 | 45 | 3.44 | 20 | 4.79 | 90 |
| L178671 | | <0.5 | 6.48 | 34 | 1620 | 3.4 | <2 | 4.84 | <0.5 | 27 | 151 | 107 | 5.69 | 20 | 3.74 | 40 |
| L178672 | | <0.5 | 8.14 | 72 | 1490 | 2.3 | <2 | 0.53 | <0.5 | 20 | 130 | 59 | 4.78 | 20 | 3.01 | 50 |
| L178673 | | <0.5 | 7.62 | 16 | >10000 | 15.5 | <2 | 3.33 | <0.5 | 13 | 5 | 142 | 5.65 | 30 | 5.73 | 150 |
| L178674 | | <0.5 | 7.63 | 5 | 1430 | 2.7 | <2 | 5.65 | <0.5 | 14 | 24 | 53 | 4.38 | 10 | 3.88 | 70 |
| L178675 | | <0.5 | 7.12 | 19 | 1380 | 2.1 | <2 | 3.87 | <0.5 | 20 | 93 | 73 | 4.57 | 20 | 2.28 | 40 |
| L178676 | | <0.5 | 7.03 | 5 | 1560 | 1.8 | <2 | 2.81 | <0.5 | 16 | 139 | 6 | 3.03 | 20 | 2.92 | 20 |
| L178677 | | <0.5 | 7.78 | 12 | 2280 | 2.4 | <2 | 3.33 | <0.5 | 23 | 94 | 70 | 5.22 | 20 | 2.60 | 40 |
| L178678 | | <0.5 | 7.25 | 26 | 1440 | 1.9 | <2 | 3.71 | <0.5 | 27 | 237 | 39 | 5.16 | 20 | 2.47 | 30 |
| L178679 | | <0.5 | 7.88 | 16 | 2290 | 1.8 | <2 | 1.39 | <0.5 | 16 | 74 | 28 | 3.69 | 20 | 2.66 | 40 |
| L178680 | | <0.5 | 8.70 | 8 | 2900 | 2.0 | <2 | 1.60 | <0.5 | 11 | 60 | 23 | 2.63 | 20 | 2.72 | 40 |
| L178681 | | <0.5 | 7.45 | 6 | 1720 | 1.7 | <2 | 2.18 | <0.5 | 16 | 70 | 16 | 2.91 | 20 | 1.93 | 40 |
| L178682 | | <0.5 | 7.17 | 38 | 1180 | 1.3 | <2 | 3.08 | <0.5 | 26 | 264 | 44 | 4.24 | 20 | 1.73 | 30 |

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**Finalized Date: 27-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174413 | | 3.08 | 1180 | <1 | 3.20 | 24 | 2120 | <2 | 0.14 | 5 | 23 | 857 | <20 | 0.55 | <10 | <10 |
| L174414 | | 3.19 | 1445 | <1 | 2.09 | 26 | 1910 | 8 | 0.68 | 6 | 31 | 519 | <20 | 0.51 | <10 | <10 |
| L174415 | | 1.67 | 1960 | <1 | 2.72 | 18 | 2490 | 3 | <0.01 | <5 | 24 | 640 | <20 | 0.48 | <10 | <10 |
| L174416 | | 2.49 | 1670 | <1 | 2.63 | 15 | 2340 | 16 | 0.19 | 5 | 22 | 508 | <20 | 0.43 | <10 | <10 |
| L174417 | | 1.84 | 1845 | <1 | 3.44 | 18 | 1990 | 30 | 0.27 | <5 | 18 | 1055 | 20 | 0.36 | <10 | <10 |
| L174418 | | 0.49 | 1115 | <1 | 4.75 | 4 | 620 | 8 | 0.05 | <5 | 4 | 602 | <20 | 0.17 | 10 | <10 |
| L174419 | | 1.49 | 1290 | 15 | 1.94 | 18 | 1230 | 28 | 1.96 | <5 | 15 | 621 | <20 | 0.21 | <10 | <10 |
| L174420 | | 0.51 | 749 | 10 | 4.15 | 9 | 750 | 181 | 4.10 | 52 | 6 | 393 | <20 | 0.14 | <10 | <10 |
| L178651 | | 2.22 | 1360 | <1 | 2.03 | 119 | 770 | 5 | 0.13 | <5 | 18 | 425 | <20 | 0.26 | <10 | <10 |
| L178652 | | 0.95 | 624 | <1 | 3.89 | 26 | 880 | 8 | 0.08 | <5 | 8 | 1165 | <20 | 0.24 | <10 | <10 |
| L178653 | | 0.94 | 677 | <1 | 3.36 | 25 | 880 | 52 | 0.05 | <5 | 7 | 1080 | <20 | 0.20 | <10 | <10 |
| L178654 | | 2.69 | 1520 | <1 | 2.28 | 41 | 1430 | 16 | 0.10 | 6 | 26 | 1090 | <20 | 0.40 | <10 | <10 |
| L178655 | | 0.81 | 877 | <1 | 3.34 | 26 | 1250 | 34 | 0.12 | <5 | 10 | 1140 | <20 | 0.19 | <10 | <10 |
| L178656 | | 1.28 | 1055 | <1 | 3.34 | 24 | 1180 | 22 | 0.10 | <5 | 8 | 1485 | <20 | 0.19 | <10 | <10 |
| L178657 | | 0.78 | 508 | <1 | 3.83 | 17 | 570 | 33 | 0.01 | <5 | 6 | 1040 | <20 | 0.17 | <10 | <10 |
| L178658 | | 1.35 | 649 | <1 | 3.17 | 26 | 1100 | 12 | 0.03 | <5 | 9 | 873 | <20 | 0.27 | <10 | <10 |
| L178659 | | 1.62 | 512 | 2 | 1.54 | 83 | 1060 | 15 | 0.16 | <5 | 12 | 338 | <20 | 0.29 | <10 | <10 |
| L178660 | | 1.82 | 685 | <1 | 1.82 | 84 | 830 | 7 | 0.05 | <5 | 14 | 647 | <20 | 0.19 | <10 | <10 |
| L178661 | | 1.85 | 1120 | <1 | 1.90 | 97 | 760 | 11 | 0.15 | <5 | 16 | 693 | <20 | 0.20 | <10 | <10 |
| L178662 | | 2.43 | 819 | <1 | 2.26 | 193 | 890 | 2 | 0.15 | <5 | 22 | 418 | <20 | 0.25 | <10 | <10 |
| L178663 | | 1.08 | 557 | <1 | 3.11 | 36 | 1090 | 15 | 0.03 | <5 | 7 | 1155 | <20 | 0.25 | <10 | <10 |
| L178664 | | 1.54 | 689 | <1 | 2.72 | 44 | 1110 | 12 | 0.02 | <5 | 10 | 1150 | <20 | 0.24 | <10 | <10 |
| L178665 | | 2.56 | 903 | <1 | 2.25 | 101 | 990 | 12 | 0.02 | <5 | 19 | 697 | <20 | 0.16 | <10 | <10 |
| L178666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178667 | | 2.17 | 594 | <1 | 3.32 | 36 | 2830 | 4 | 0.03 | <5 | 18 | 444 | 20 | 0.37 | <10 | <10 |
| L178668 | | 2.34 | 1205 | <1 | 2.47 | 34 | 2910 | 37 | 0.01 | <5 | 22 | 1265 | 20 | 0.40 | <10 | <10 |
| L178669 | | 0.92 | 1005 | <1 | 2.77 | 13 | 2500 | 80 | 0.05 | <5 | 8 | 1545 | 30 | 0.24 | <10 | <10 |
| L178670 | | 0.42 | 1030 | <1 | 2.62 | 5 | 1140 | 70 | 0.04 | <5 | 3 | 1005 | 30 | 0.21 | <10 | <10 |
| L178671 | | 2.73 | 1175 | <1 | 1.47 | 43 | 2680 | 10 | 0.01 | 6 | 20 | 1475 | 20 | 0.34 | <10 | <10 |
| L178672 | | 0.42 | 773 | 1 | 0.34 | 61 | 1330 | 12 | 0.12 | <5 | 15 | 214 | <20 | 0.11 | <10 | <10 |
| L178673 | | 1.02 | 2060 | <1 | 1.50 | 8 | 1110 | 51 | 0.31 | 7 | 3 | 1855 | 50 | 0.51 | <10 | <10 |
| L178674 | | 2.14 | 1320 | <1 | 2.88 | 12 | 2020 | 18 | 0.02 | 5 | 6 | 1735 | 30 | 0.19 | <10 | <10 |
| L178675 | | 1.78 | 965 | 2 | 2.64 | 34 | 1400 | 7 | 0.04 | <5 | 16 | 1240 | <20 | 0.25 | <10 | <10 |
| L178676 | | 1.29 | 569 | <1 | 2.96 | 54 | 1020 | 10 | 0.03 | 9 | 11 | 696 | <20 | 0.16 | <10 | <10 |
| L178677 | | 2.31 | 973 | <1 | 2.79 | 32 | 1790 | 9 | 0.06 | <5 | 19 | 409 | <20 | 0.40 | <10 | <10 |
| L178678 | | 3.05 | 986 | <1 | 3.14 | 83 | 1410 | 14 | 0.26 | <5 | 22 | 1060 | <20 | 0.33 | <10 | <10 |
| L178679 | | 1.53 | 568 | <1 | 3.62 | 31 | 1320 | 25 | 0.14 | <5 | 11 | 1025 | <20 | 0.26 | <10 | <10 |
| L178680 | | 0.83 | 429 | <1 | 3.61 | 26 | 930 | 29 | 0.08 | <5 | 9 | 1040 | <20 | 0.21 | <10 | <10 |
| L178681 | | 1.03 | 645 | <1 | 3.31 | 33 | 1170 | 22 | 0.05 | <5 | 9 | 963 | <20 | 0.25 | <10 | <10 |
| L178682 | | 2.64 | 903 | <1 | 3.07 | 114 | 1120 | 18 | 0.09 | <5 | 19 | 883 | <20 | 0.33 | <10 | <10 |

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

ALS Canada Ltd.
2103 Dollarton Hwy
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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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|
| L174413 | | 193 | <10 | 85 |
| L174414 | | 235 | <10 | 129 |
| L174415 | | 249 | <10 | 141 |
| L174416 | | 207 | <10 | 160 |
| L174417 | | 168 | <10 | 189 |
| L174418 | | 92 | 10 | 51 |
| L174419 | | 152 | <10 | 41 |
| L174420 | | 94 | 10 | 150 |
| L178651 | | 125 | <10 | 100 |
| L178652 | | 70 | <10 | 67 |
| L178653 | | 66 | <10 | 70 |
| L178654 | | 191 | <10 | 120 |
| L178655 | | 90 | <10 | 76 |
| L178656 | | 83 | <10 | 76 |
| L178657 | | 47 | <10 | 52 |
| L178658 | | 84 | <10 | 100 |
| L178659 | | 100 | <10 | 64 |
| L178660 | | 102 | <10 | 60 |
| L178661 | | 119 | <10 | 76 |
| L178662 | | 149 | <10 | 108 |
| L178663 | | 70 | <10 | 68 |
| L178664 | | 84 | <10 | 68 |
| L178665 | | 113 | <10 | 78 |
| L178666 | | NSS | NSS | NSS |
| L178667 | | 204 | <10 | 127 |
| L178668 | | 209 | 10 | 204 |
| L178669 | | 139 | <10 | 124 |
| L178670 | | 88 | <10 | 150 |
| L178671 | | 177 | <10 | 71 |
| L178672 | | 152 | <10 | 91 |
| L178673 | | 224 | <10 | 134 |
| L178674 | | 102 | 10 | 95 |
| L178675 | | 151 | <10 | 76 |
| L178676 | | 83 | <10 | 55 |
| L178677 | | 185 | <10 | 81 |
| L178678 | | 136 | <10 | 98 |
| L178679 | | 101 | <10 | 94 |
| L178680 | | 79 | <10 | 64 |
| L178681 | | 79 | <10 | 76 |
| L178682 | | 120 | <10 | 81 |

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**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L178683 | | <0.5 | 4.68 | 39 | 830 | 2.9 | <2 | 5.44 | <0.5 | 32 | 248 | 68 | 5.26 | 10 | 2.66 | 30 |
| L178684 | | <0.5 | 4.91 | 7 | 520 | 1.7 | <2 | 7.97 | <0.5 | 29 | 198 | 23 | 5.42 | 20 | 2.17 | 20 |
| L178685 | | <0.5 | 6.85 | 15 | 1060 | 2.3 | <2 | 3.20 | <0.5 | 34 | 223 | 47 | 4.23 | 20 | 3.17 | 40 |
| L178686 | | <0.5 | 6.38 | 8 | 1830 | 1.5 | <2 | 4.26 | <0.5 | 34 | 235 | 137 | 5.83 | 20 | 3.11 | 40 |
| L178687 | | <0.5 | 7.12 | 6 | 850 | 1.9 | <2 | 3.50 | <0.5 | 23 | 94 | 62 | 5.95 | 20 | 2.03 | 40 |
| L178688 | | <0.5 | 6.68 | 11 | 1460 | 1.2 | <2 | 2.32 | <0.5 | 35 | 354 | 56 | 5.70 | 20 | 0.25 | 30 |
| L178689 | | <0.5 | 6.57 | 10 | 1110 | 1.3 | <2 | 2.61 | <0.5 | 22 | 194 | 45 | 4.34 | 20 | 1.87 | 20 |
| L178690 | | <0.5 | 6.87 | 10 | 1880 | 1.9 | <2 | 4.28 | <0.5 | 26 | 205 | 52 | 5.13 | 20 | 2.98 | 40 |
| L178691 | | <0.5 | 7.83 | 39 | 2690 | 4.7 | <2 | 2.89 | <0.5 | 29 | 146 | 119 | 6.22 | 20 | 3.00 | 50 |
| L178692 | | <0.5 | 5.99 | 11 | 3700 | 7.4 | <2 | 5.19 | <0.5 | 21 | 74 | 159 | 6.01 | 20 | 2.66 | 140 |
| L178693 | | <0.5 | 4.28 | 5 | 960 | 2.1 | <2 | 3.84 | <0.5 | 15 | 58 | 55 | 3.28 | 10 | 2.36 | 40 |
| L178694 | | <0.5 | 7.15 | 14 | 1890 | 3.2 | <2 | 5.24 | <0.5 | 22 | 86 | 132 | 5.64 | 20 | 3.26 | 80 |
| L178695 | | <0.5 | 7.90 | 6 | 2360 | 2.4 | <2 | 4.64 | <0.5 | 29 | 99 | 81 | 6.16 | 20 | 3.76 | 90 |
| L178696 | | <0.5 | 7.39 | 21 | 2720 | 3.8 | <2 | 2.49 | <0.5 | 27 | 113 | 98 | 6.12 | 20 | 4.83 | 70 |
| L178697 | | <0.5 | 9.45 | 19 | 1780 | 5.4 | <2 | 2.09 | <0.5 | 15 | 8 | 103 | 4.41 | 20 | 4.60 | 60 |
| L178698 | | <0.5 | 9.79 | 7 | 2770 | 5.4 | <2 | 2.04 | <0.5 | 13 | 22 | 79 | 4.30 | 30 | 5.06 | 70 |
| L178699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178700 | | <0.5 | 6.47 | <5 | 1820 | 2.0 | <2 | 3.18 | <0.5 | 16 | 93 | 91 | 4.07 | 20 | 2.42 | 30 |
| L178701 | | <0.5 | 7.45 | <5 | 1400 | 2.8 | <2 | 3.01 | <0.5 | 20 | 82 | 43 | 5.13 | 20 | 2.87 | 40 |
| L178702 | | <0.5 | 6.51 | 44 | 1480 | 2.7 | <2 | 5.20 | <0.5 | 25 | 151 | 100 | 5.82 | 20 | 2.87 | 40 |
| L178703 | | <0.5 | 6.52 | 22 | 1440 | 0.7 | <2 | 2.98 | <0.5 | 15 | 53 | 114 | 3.81 | 10 | 0.64 | 40 |
| L178704 | | <0.5 | 7.40 | 57 | 980 | 1.4 | <2 | 1.04 | <0.5 | 18 | 25 | 63 | 3.91 | 10 | 3.47 | 70 |
| L178705 | | <0.5 | 7.52 | 20 | 2190 | 2.8 | <2 | 5.37 | <0.5 | 24 | 97 | 130 | 5.90 | 20 | 4.99 | 70 |
| L178706 | | 1.0 | 7.85 | 7 | 2950 | 3.5 | <2 | 2.82 | <0.5 | 18 | 24 | 30 | 4.74 | 20 | 4.40 | 50 |
| L178707 | | <0.5 | 7.02 | 7 | 2620 | 1.8 | <2 | 4.28 | <0.5 | 25 | 152 | 14 | 5.07 | 20 | 2.29 | 70 |
| L178708 | | <0.5 | 6.96 | 11 | 1740 | 1.1 | 2 | 3.92 | <0.5 | 29 | 192 | 5 | 5.44 | 20 | 1.20 | 70 |
| L178709 | | <0.5 | 7.30 | 14 | 1880 | 2.0 | 2 | 2.27 | <0.5 | 12 | 68 | 32 | 4.25 | 20 | 3.21 | 20 |
| L178710 | | <0.5 | 6.46 | 25 | 1230 | 1.8 | 2 | 4.72 | <0.5 | 26 | 180 | 70 | 6.53 | 20 | 1.89 | 40 |
| L178711 | | <0.5 | 7.30 | 20 | 2310 | 1.7 | <2 | 2.18 | <0.5 | 14 | 75 | 81 | 3.59 | 20 | 3.30 | 30 |
| L178712 | | <0.5 | 7.36 | 16 | 1090 | 2.0 | <2 | 5.37 | <0.5 | 19 | 144 | 78 | 5.28 | 20 | 3.26 | 40 |
| L178713 | | <0.5 | 6.08 | 25 | 1510 | 2.0 | <2 | 8.22 | <0.5 | 25 | 276 | 15 | 5.98 | 10 | 2.47 | 40 |
| L178714 | | <0.5 | 7.28 | 19 | 1890 | 2.8 | <2 | 5.17 | <0.5 | 20 | 97 | 135 | 5.83 | 20 | 3.84 | 90 |
| L178715 | | <0.5 | 6.41 | 6 | 6220 | 2.0 | <2 | 5.65 | <0.5 | 18 | 69 | 211 | 5.50 | 20 | 4.88 | 100 |
| L178716 | | <0.5 | 7.29 | 5 | 4110 | 4.1 | <2 | 5.91 | <0.5 | 14 | 29 | 227 | 6.02 | 20 | 4.22 | 140 |
| L178717 | | <0.5 | 6.98 | 32 | 860 | 1.5 | <2 | 1.28 | <0.5 | 22 | 224 | 66 | 4.51 | 20 | 1.89 | 30 |
| L178718 | | <0.5 | 7.09 | 19 | 1240 | 3.1 | 4 | 5.89 | <0.5 | 27 | 82 | 78 | 5.70 | 20 | 2.81 | 90 |
| L178719 | | <0.5 | 8.38 | 10 | 2250 | 3.4 | 2 | 2.20 | <0.5 | 11 | 18 | 67 | 3.74 | 20 | 5.26 | 50 |
| L178720 | | <0.5 | 7.70 | 11 | 2830 | 3.0 | <2 | 2.57 | <0.5 | 16 | 24 | 87 | 4.53 | 20 | 5.16 | 50 |
| L178721 | | <0.5 | 6.90 | 19 | 1760 | 3.6 | <2 | 4.34 | <0.5 | 19 | 93 | 85 | 5.73 | 20 | 4.23 | 70 |
| L178722 | | <0.5 | 7.05 | 5 | 2050 | 3.3 | <2 | 4.52 | <0.5 | 21 | 55 | 70 | 5.48 | 20 | 3.55 | 80 |

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

ALS Canada Ltd.
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To: **OSISKO MINING LTD.**
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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
| L178683 | | 3.13 | 1075 | <1 | 0.60 | 102 | 1720 | 10 | 0.07 | 13 | 22 | 995 | <20 | 0.14 | <10 | <10 |
| L178684 | | 4.43 | 1220 | <1 | 1.00 | 77 | 1540 | 10 | 0.01 | <5 | 24 | 961 | <20 | 0.16 | <10 | <10 |
| L178685 | | 2.08 | 908 | <1 | 1.92 | 78 | 1570 | 18 | 0.39 | <5 | 22 | 517 | <20 | 0.35 | <10 | <10 |
| L178686 | | 3.71 | 948 | 2 | 1.93 | 106 | 2540 | 8 | 0.01 | <5 | 21 | 950 | <20 | 0.35 | <10 | <10 |
| L178687 | | 2.33 | 1325 | <1 | 3.41 | 31 | 1810 | 17 | 0.02 | 6 | 24 | 557 | <20 | 0.39 | <10 | <10 |
| L178688 | | 4.37 | 888 | <1 | 2.62 | 164 | 1220 | 15 | 0.16 | <5 | 25 | 496 | <20 | 0.32 | <10 | <10 |
| L178689 | | 1.75 | 773 | <1 | 2.01 | 104 | 760 | 8 | 0.10 | <5 | 16 | 414 | <20 | 0.27 | <10 | <10 |
| L178690 | | 2.31 | 1075 | <1 | 2.17 | 75 | 1670 | 16 | 0.04 | <5 | 21 | 587 | <20 | 0.38 | <10 | <10 |
| L178691 | | 1.17 | 1005 | <1 | 2.10 | 46 | 2290 | 41 | 0.04 | <5 | 26 | 823 | 20 | 0.46 | <10 | <10 |
| L178692 | | 2.73 | 1375 | <1 | 1.33 | 33 | 4770 | 86 | 0.11 | <5 | 18 | 3620 | 50 | 0.33 | <10 | <10 |
| L178693 | | 1.69 | 745 | 1 | 0.02 | 18 | 1090 | 9 | 0.02 | 6 | 11 | 1055 | <20 | 0.16 | <10 | <10 |
| L178694 | | 2.24 | 1215 | <1 | 2.92 | 24 | 2200 | 25 | 0.06 | <5 | 20 | 2030 | 20 | 0.28 | <10 | <10 |
| L178695 | | 2.46 | 898 | <1 | 2.98 | 30 | 2580 | 35 | 0.01 | <5 | 22 | 1300 | 20 | 0.48 | <10 | <10 |
| L178696 | | 1.68 | 1015 | <1 | 2.27 | 27 | 2490 | 20 | 0.01 | <5 | 19 | 1095 | 20 | 0.35 | <10 | <10 |
| L178697 | | 0.90 | 992 | <1 | 2.02 | 7 | 2080 | 21 | 0.02 | 42 | 5 | 1020 | 20 | 0.25 | 10 | <10 |
| L178698 | | 0.70 | 954 | <1 | 1.47 | 11 | 2290 | 28 | 0.02 | <5 | 7 | 1055 | 20 | 0.26 | <10 | <10 |
| L178699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178700 | | 1.57 | 857 | 2 | 2.46 | 36 | 1320 | 13 | 0.04 | <5 | 13 | 692 | <20 | 0.27 | <10 | <10 |
| L178701 | | 1.57 | 933 | <1 | 1.71 | 31 | 1730 | 11 | 0.02 | 6 | 15 | 335 | <20 | 0.39 | <10 | <10 |
| L178702 | | 2.23 | 1330 | <1 | 1.71 | 46 | 2610 | 24 | 0.01 | <5 | 20 | 1120 | <20 | 0.45 | <10 | <10 |
| L178703 | | 0.80 | 917 | <1 | 6.21 | 22 | 1960 | 14 | 0.04 | 35 | 7 | 1345 | <20 | 0.12 | <10 | <10 |
| L178704 | | 0.37 | 553 | <1 | 3.58 | 8 | 2060 | 19 | 2.14 | 7 | 5 | 595 | 20 | 0.10 | <10 | <10 |
| L178705 | | 2.40 | 1295 | <1 | 0.96 | 31 | 2870 | 17 | 0.22 | 9 | 21 | 1310 | 20 | 0.32 | <10 | <10 |
| L178706 | | 1.03 | 1135 | <1 | 1.17 | 12 | 2260 | 23 | 1.69 | 5 | 7 | 1305 | 20 | 0.26 | <10 | <10 |
| L178707 | | 2.90 | 1045 | <1 | 2.89 | 91 | 2120 | 19 | 0.02 | <5 | 16 | 1030 | 20 | 0.40 | <10 | <10 |
| L178708 | | 3.76 | 985 | <1 | 3.65 | 121 | 2120 | 8 | 0.03 | 7 | 17 | 881 | 20 | 0.40 | <10 | <10 |
| L178709 | | 1.21 | 775 | <1 | 3.45 | 21 | 900 | 34 | 0.11 | <5 | 12 | 981 | <20 | 0.27 | <10 | <10 |
| L178710 | | 3.26 | 1435 | <1 | 3.35 | 38 | 1570 | 25 | 0.02 | <5 | 32 | 836 | <20 | 0.42 | <10 | <10 |
| L178711 | | 1.52 | 697 | 1 | 3.76 | 26 | 1050 | 41 | 0.18 | <5 | 10 | 1270 | <20 | 0.27 | <10 | <10 |
| L178712 | | 1.67 | 1100 | <1 | 2.77 | 50 | 1720 | 10 | 0.05 | 5 | 19 | 400 | <20 | 0.38 | <10 | <10 |
| L178713 | | 4.03 | 1670 | 1 | 2.37 | 86 | 1700 | 10 | 0.07 | <5 | 26 | 1410 | <20 | 0.37 | <10 | <10 |
| L178714 | | 2.74 | 1240 | <1 | 2.63 | 30 | 2350 | 20 | 0.01 | 9 | 20 | 2230 | 20 | 0.45 | <10 | <10 |
| L178715 | | 1.93 | 1795 | <1 | 0.08 | 76 | 2090 | 12 | 0.30 | 7 | 18 | 1710 | 30 | 0.43 | <10 | <10 |
| L178716 | | 1.76 | 1760 | <1 | 2.61 | 27 | 3030 | 26 | 0.19 | 11 | 16 | 1250 | 30 | 0.62 | <10 | <10 |
| L178717 | | 0.78 | 1300 | 1 | 2.17 | 115 | 1060 | 13 | 0.26 | 6 | 13 | 447 | <20 | 0.18 | <10 | <10 |
| L178718 | | 2.83 | 1375 | <1 | 2.90 | 26 | 2170 | 14 | 0.07 | 5 | 20 | 1935 | 30 | 0.37 | <10 | <10 |
| L178719 | | 0.69 | 868 | <1 | 2.44 | 8 | 1830 | 17 | 0.01 | 6 | 5 | 1270 | 20 | 0.24 | <10 | <10 |
| L178720 | | 0.94 | 861 | <1 | 2.35 | 13 | 2310 | 23 | 0.05 | 7 | 6 | 2370 | 20 | 0.26 | <10 | <10 |
| L178721 | | 2.20 | 1335 | <1 | 2.35 | 24 | 2320 | 10 | 0.01 | 10 | 18 | 1520 | 20 | 0.42 | <10 | <10 |
| L178722 | | 2.06 | 1185 | <1 | 2.87 | 21 | 2310 | 28 | 0.03 | 5 | 14 | 2140 | 20 | 0.42 | <10 | <10 |

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**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|
| L178683 | | 149 | <10 | 73 |
| L178684 | | 152 | <10 | 81 |
| L178685 | | 155 | <10 | 70 |
| L178686 | | 178 | <10 | 95 |
| L178687 | | 193 | <10 | 81 |
| L178688 | | 165 | <10 | 139 |
| L178689 | | 124 | <10 | 79 |
| L178690 | | 155 | <10 | 90 |
| L178691 | | 264 | 10 | 120 |
| L178692 | | 145 | <10 | 158 |
| L178693 | | 126 | 10 | 59 |
| L178694 | | 197 | <10 | 73 |
| L178695 | | 227 | <10 | 158 |
| L178696 | | 237 | <10 | 141 |
| L178697 | | 107 | <10 | 130 |
| L178698 | | 125 | 10 | 117 |
| L178699 | | NSS | NSS | NSS |
| L178700 | | 143 | <10 | 80 |
| L178701 | | 186 | <10 | 113 |
| L178702 | | 175 | <10 | 88 |
| L178703 | | 41 | <10 | 90 |
| L178704 | | 38 | <10 | 43 |
| L178705 | | 211 | 20 | 118 |
| L178706 | | 137 | 10 | 86 |
| L178707 | | 139 | <10 | 108 |
| L178708 | | 139 | <10 | 120 |
| L178709 | | 133 | <10 | 90 |
| L178710 | | 214 | <10 | 115 |
| L178711 | | 118 | <10 | 89 |
| L178712 | | 154 | <10 | 70 |
| L178713 | | 165 | <10 | 114 |
| L178714 | | 191 | <10 | 104 |
| L178715 | | 286 | 10 | 115 |
| L178716 | | 460 | 20 | 102 |
| L178717 | | 94 | <10 | 60 |
| L178718 | | 187 | <10 | 92 |
| L178719 | | 97 | <10 | 92 |
| L178720 | | 117 | <10 | 101 |
| L178721 | | 202 | <10 | 85 |
| L178722 | | 194 | <10 | 101 |

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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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | K | La |
| | Units | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | % | ppm |
| | LOR | 0.5 | 0.01 | 5 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 0.01 | 10 |
| L178723 | | <0.5 | 8.85 | 39 | 840 | 1.5 | <2 | 0.34 | <0.5 | 15 | 188 | 47 | 3.43 | 20 | 2.27 | 30 |
| L178724 | | <0.5 | 7.17 | <5 | 320 | 0.5 | <2 | 3.09 | <0.5 | 19 | 23 | 24 | 4.01 | 10 | 0.82 | 10 |
| L178725 | | <0.5 | 9.26 | 8 | 2320 | 4.0 | <2 | 1.75 | <0.5 | 12 | 18 | 120 | 3.95 | 20 | 5.48 | 60 |
| L178726 | | <0.5 | 10.05 | 18 | 4050 | 10.4 | 2 | 1.31 | <0.5 | 9 | 3 | 119 | 3.96 | 30 | 4.63 | 80 |
| L178727 | | <0.5 | 7.22 | 6 | 1670 | 3.1 | 7 | 3.06 | <0.5 | 17 | 91 | 71 | 6.38 | 20 | 4.53 | 60 |
| L178728 | | <0.5 | 8.23 | 8 | 3180 | 4.7 | 4 | 2.72 | <0.5 | 13 | 26 | 114 | 4.71 | 20 | 5.36 | 50 |
| L178729 | | <0.5 | 7.17 | 255 | 6250 | 9.4 | 3 | 3.49 | <0.5 | 15 | 9 | 149 | 6.01 | 20 | 3.68 | 150 |
| L178730 | | <0.5 | 8.32 | 31 | 2860 | 4.0 | <2 | 1.55 | <0.5 | 12 | 17 | 76 | 3.03 | 20 | 4.25 | 60 |
| N443665 | | <0.5 | 7.26 | <5 | 230 | 1.2 | <2 | 6.97 | <0.5 | 17 | 97 | 21 | 5.75 | 20 | 0.32 | 20 |
| N443666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443667 | | <0.5 | 7.78 | <5 | 2500 | 1.2 | <2 | 0.89 | <0.5 | 4 | 27 | 1 | 1.69 | 20 | 4.00 | 20 |
| N443668 | | <0.5 | 7.76 | 5 | 2200 | 3.6 | <2 | 1.07 | <0.5 | 7 | 36 | 56 | 2.24 | 20 | 5.34 | 30 |
| N443669 | | <0.5 | 7.64 | <5 | 2020 | 1.2 | <2 | 1.36 | <0.5 | 5 | 32 | 22 | 2.17 | 20 | 4.52 | 40 |
| N443670 | | <0.5 | 8.06 | <5 | 1610 | 4.1 | <2 | 0.88 | <0.5 | 6 | 64 | 28 | 2.29 | 30 | 4.29 | 50 |
| N443671 | | <0.5 | 7.68 | <5 | 2060 | 9.1 | <2 | 1.46 | <0.5 | 7 | 52 | 39 | 2.95 | 30 | 4.15 | 60 |
| N443672 | | <0.5 | 7.27 | 19 | 2920 | 4.6 | <2 | 4.51 | <0.5 | 22 | 63 | 74 | 6.27 | 20 | 4.51 | 60 |
| N443673 | | <0.5 | 8.31 | 5 | 1540 | 6.6 | <2 | 0.89 | <0.5 | 4 | 28 | 11 | 2.17 | 30 | 4.33 | 40 |
| N443674 | | <0.5 | 7.57 | <5 | 1560 | 10.3 | <2 | 1.37 | <0.5 | 9 | 51 | 21 | 2.82 | 20 | 4.04 | 40 |

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

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**Finalized Date: 27-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
| L178723 | | 1.14 | 237 | <1 | 2.62 | 71 | 890 | 9 | 0.03 | <5 | 15 | 216 | <20 | 0.25 | <10 | <10 |
| L178724 | | 2.31 | 640 | <1 | 3.06 | 50 | 370 | <2 | <0.01 | 5 | 13 | 170 | <20 | 0.33 | <10 | <10 |
| L178725 | | 0.59 | 900 | <1 | 2.89 | 9 | 1980 | 9 | 0.03 | 8 | 6 | 1080 | 20 | 0.23 | <10 | <10 |
| L178726 | | 0.98 | 594 | <1 | 0.82 | 6 | 770 | 58 | 0.04 | <5 | 3 | 426 | 30 | 0.28 | <10 | <10 |
| L178727 | | 2.23 | 1245 | <1 | 2.52 | 36 | 2600 | 6 | 0.04 | 6 | 16 | 675 | 20 | 0.30 | <10 | <10 |
| L178728 | | 0.93 | 984 | <1 | 2.17 | 13 | 2590 | 16 | 0.07 | <5 | 7 | 1780 | 20 | 0.29 | <10 | <10 |
| L178729 | | 1.01 | 2080 | <1 | 3.02 | 10 | 1880 | 62 | 0.71 | <5 | 6 | 2290 | 50 | 0.52 | <10 | <10 |
| L178730 | | 0.84 | 603 | 1 | 0.91 | 8 | 1870 | 56 | 0.13 | <5 | 4 | 757 | 20 | 0.23 | <10 | <10 |
| N443665 | | 2.78 | 1205 | <1 | 3.95 | 98 | 970 | 8 | 0.32 | <5 | 43 | 908 | <20 | 0.70 | <10 | <10 |
| N443666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443667 | | 0.49 | 295 | <1 | 4.70 | 17 | 460 | 23 | 0.01 | <5 | 3 | 1630 | <20 | 0.14 | <10 | <10 |
| N443668 | | 0.83 | 505 | 3 | 3.85 | 15 | 800 | 67 | 0.03 | <5 | 5 | 1220 | 20 | 0.19 | 10 | <10 |
| N443669 | | 0.69 | 494 | <1 | 4.51 | 14 | 680 | 24 | <0.01 | <5 | 4 | 1420 | <20 | 0.22 | <10 | <10 |
| N443670 | | 0.75 | 539 | <1 | 4.42 | 15 | 510 | 39 | 0.02 | <5 | 3 | 1145 | 20 | 0.22 | <10 | <10 |
| N443671 | | 1.09 | 706 | 1 | 4.23 | 16 | 1090 | 54 | 0.17 | <5 | 7 | 1155 | 40 | 0.24 | <10 | <10 |
| N443672 | | 4.00 | 2270 | <1 | 1.81 | 25 | 3320 | 28 | 0.80 | <5 | 17 | 1680 | 50 | 0.41 | <10 | <10 |
| N443673 | | 0.54 | 451 | <1 | 4.69 | 8 | 530 | 77 | 0.03 | <5 | 3 | 1080 | 40 | 0.20 | <10 | <10 |
| N443674 | | 0.92 | 680 | <1 | 4.16 | 16 | 880 | 54 | 0.10 | <5 | 6 | 1040 | 40 | 0.24 | <10 | <10 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

| 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 |
|---|---|---|---|---|
| L178723 | | 120 | <10 | 79 |
| L178724 | | 97 | <10 | 61 |
| L178725 | | 105 | <10 | 81 |
| L178726 | | 223 | <10 | 143 |
| L178727 | | 241 | 10 | 129 |
| L178728 | | 159 | <10 | 109 |
| L178729 | | 288 | 10 | 192 |
| L178730 | | 91 | <10 | 92 |
| N443665 | | 292 | <10 | 57 |
| N443666 | | NSS | NSS | NSS |
| N443667 | | 47 | <10 | 29 |
| N443668 | | 61 | <10 | 59 |
| N443669 | | 63 | <10 | 45 |
| N443670 | | 62 | <10 | 73 |
| N443671 | | 82 | <10 | 93 |
| N443672 | | 159 | <10 | 130 |
| N443673 | | 57 | <10 | 52 |
| N443674 | | 80 | <10 | 80 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042675

## 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