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

# CERTIFICATE SD14042829

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 117 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 SD14042829

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I277501 | | <0.5 | 8.05 | 54 | 1540 | 2.0 | 2 | 0.60 | <0.5 | 11 | 83 | 9 | 2.96 | 20 | 2.56 | 40 |
| I277502 | | <0.5 | 7.26 | 9 | 1940 | 1.6 | <2 | 1.88 | <0.5 | 7 | 40 | 3 | 2.17 | 20 | 2.34 | 30 |
| I277503 | | <0.5 | 7.65 | 20 | 1390 | 1.8 | <2 | 1.62 | <0.5 | 7 | 39 | 3 | 2.15 | 20 | 2.11 | 30 |
| I277504 | | <0.5 | 7.71 | 8 | 1660 | 1.9 | <2 | 1.35 | <0.5 | 7 | 39 | 9 | 2.11 | 20 | 2.62 | 40 |
| I277505 | | 2.3 | 8.01 | 22 | 2860 | 1.9 | 2 | 0.42 | <0.5 | 8 | 66 | 4 | 2.74 | 20 | 2.53 | 40 |
| I277506 | | <0.5 | 7.91 | 15 | 1560 | 1.8 | <2 | 1.19 | <0.5 | 6 | 41 | 4 | 1.90 | 20 | 2.39 | 40 |
| I277507 | | 0.6 | 6.80 | 82 | 600 | 3.5 | 3 | 2.78 | <0.5 | 25 | 167 | 25 | 5.02 | 20 | 2.65 | 50 |
| I277508 | | <0.5 | 7.32 | 14 | 1960 | 1.8 | 4 | 2.56 | <0.5 | 9 | 61 | 20 | 2.64 | 20 | 2.65 | 30 |
| I277509 | | 0.8 | 7.15 | 19 | 2190 | 1.8 | <2 | 2.59 | <0.5 | 10 | 57 | 21 | 2.68 | 20 | 2.41 | 30 |
| I277510 | | <0.5 | 7.40 | 20 | 1540 | 1.9 | <2 | 1.97 | <0.5 | 8 | 44 | 8 | 2.21 | 20 | 3.09 | 30 |
| I277511 | | <0.5 | 7.59 | 11 | 2240 | 1.8 | 2 | 1.53 | <0.5 | 7 | 38 | 8 | 2.48 | 20 | 2.58 | 40 |
| I277512 | | <0.5 | 7.22 | 28 | 2110 | 1.7 | <2 | 2.01 | <0.5 | 7 | 40 | 10 | 2.14 | 20 | 2.08 | 30 |
| I277513 | | <0.5 | 6.02 | 15 | 2270 | 1.7 | <2 | 3.28 | <0.5 | 6 | 34 | 4 | 2.48 | 20 | 1.99 | 20 |
| I277514 | | <0.5 | 7.51 | 8 | 2120 | 2.0 | 5 | 1.87 | <0.5 | 8 | 37 | 11 | 2.17 | 20 | 2.42 | 30 |
| I277515 | | <0.5 | 6.77 | 7 | 2230 | 1.7 | <2 | 2.28 | <0.5 | 12 | 49 | 28 | 2.67 | 20 | 2.37 | 30 |
| I277516 | | <0.5 | 7.49 | 13 | 1180 | 2.3 | 3 | 2.16 | <0.5 | 19 | 67 | 30 | 5.86 | 20 | 2.43 | 80 |
| I277517 | | 0.8 | 7.56 | 38 | 350 | 1.8 | 4 | 1.43 | <0.5 | 11 | 56 | 12 | 3.97 | 20 | 2.87 | 40 |
| I277518 | | <0.5 | 7.34 | 16 | 1940 | 2.1 | <2 | 2.03 | <0.5 | 10 | 52 | 7 | 2.62 | 20 | 2.57 | 30 |
| I277519 | | <0.5 | 7.38 | 10 | 1680 | 2.5 | <2 | 2.06 | <0.5 | 11 | 51 | 35 | 2.72 | 20 | 3.48 | 30 |
| I277520 | | 1.0 | 7.17 | 20 | 820 | 2.3 | 5 | 3.07 | <0.5 | 17 | 91 | 19 | 4.23 | 20 | 3.64 | 30 |
| I277521 | | <0.5 | 6.76 | 24 | 1400 | 1.5 | <2 | 2.13 | <0.5 | 8 | 47 | 5 | 2.32 | 20 | 2.26 | 30 |
| I277522 | | <0.5 | 7.24 | 8 | 2410 | 1.6 | <2 | 1.98 | <0.5 | 7 | 37 | 3 | 2.25 | 20 | 2.30 | 30 |
| I277523 | | <0.5 | 6.98 | 20 | 1430 | 2.0 | <2 | 2.47 | <0.5 | 9 | 49 | 23 | 2.64 | 20 | 2.28 | 30 |
| I277524 | | <0.5 | 6.91 | <5 | 1530 | 2.1 | <2 | 2.66 | <0.5 | 9 | 53 | 12 | 2.66 | 20 | 2.76 | 30 |
| I277525 | | <0.5 | 7.22 | 26 | 1840 | 2.2 | <2 | 2.46 | <0.5 | 13 | 77 | 35 | 3.39 | 20 | 2.57 | 30 |
| I277526 | | <0.5 | 7.82 | 31 | 2380 | 2.1 | <2 | 0.53 | <0.5 | 8 | 55 | 3 | 2.44 | 30 | 2.61 | 40 |
| I277527 | | <0.5 | 7.02 | 22 | 2820 | 1.3 | <2 | 1.66 | <0.5 | 6 | 38 | 9 | 2.08 | 20 | 2.15 | 30 |
| I277528 | | <0.5 | 6.97 | 6 | 2430 | 1.8 | <2 | 2.23 | <0.5 | 6 | 48 | 1 | 2.25 | 20 | 2.19 | 30 |
| I277529 | | <0.5 | 7.41 | 21 | 2240 | 1.8 | <2 | 1.87 | <0.5 | 11 | 67 | 19 | 2.55 | 20 | 3.02 | 30 |
| I277530 | | 1.0 | 7.17 | 92 | 1650 | 1.9 | 2 | 2.20 | <0.5 | 12 | 96 | 42 | 3.12 | 20 | 2.85 | 30 |
| I277531 | | <0.5 | 6.22 | 35 | 570 | 1.3 | <2 | 2.37 | <0.5 | 23 | 260 | 13 | 4.93 | 20 | 1.75 | 20 |
| I277532 | | <0.5 | 7.03 | <5 | 2670 | 1.4 | <2 | 1.90 | <0.5 | 4 | 45 | 56 | 2.06 | 20 | 1.64 | 30 |
| I277533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I277534 | | 1.4 | 7.64 | 98 | 2150 | 1.3 | <2 | 1.52 | <0.5 | 8 | 69 | 7 | 2.47 | 20 | 2.44 | 40 |
| I277535 | | <0.5 | 7.20 | 20 | 1850 | 1.6 | <2 | 1.89 | <0.5 | 6 | 42 | 3 | 2.01 | 20 | 2.19 | 30 |
| I277536 | | <0.5 | 7.27 | 33 | 1550 | 1.7 | <2 | 0.83 | <0.5 | 7 | 58 | 7 | 1.83 | 20 | 2.20 | 40 |
| I277537 | | <0.5 | 6.99 | 8 | 2440 | 1.7 | <2 | 2.61 | <0.5 | 24 | 214 | 44 | 4.46 | 20 | 2.09 | 60 |
| I277538 | | <0.5 | 7.38 | 20 | 1880 | 1.7 | <2 | 1.82 | <0.5 | 7 | 42 | 2 | 2.02 | 20 | 2.33 | 30 |
| I277539 | | <0.5 | 7.84 | 15 | 1670 | 2.0 | <2 | 1.50 | <0.5 | 7 | 61 | 2 | 2.74 | 20 | 2.51 | 40 |
| I277540 | | <0.5 | 7.91 | 27 | 2350 | 1.8 | <2 | 1.66 | <0.5 | 7 | 63 | 6 | 2.53 | 20 | 2.43 | 40 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

| 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 |
| I277501 | | 0.52 | 284 | <1 | 4.37 | 31 | 1040 | 15 | 1.00 | <5 | 9 | 712 | <20 | 0.11 | 10 | <10 |
| I277502 | | 0.73 | 712 | <1 | 3.28 | 19 | 780 | 10 | 0.33 | <5 | 5 | 805 | <20 | 0.10 | <10 | <10 |
| I277503 | | 0.65 | 533 | <1 | 3.88 | 19 | 740 | 10 | 0.80 | 8 | 5 | 818 | <20 | 0.11 | <10 | <10 |
| I277504 | | 0.59 | 460 | <1 | 3.24 | 17 | 710 | 8 | 0.62 | 8 | 5 | 938 | <20 | 0.11 | <10 | <10 |
| I277505 | | 0.37 | 244 | <1 | 3.61 | 21 | 930 | 104 | 1.15 | 7 | 7 | 910 | <20 | 0.10 | 10 | <10 |
| I277506 | | 0.55 | 576 | <1 | 3.71 | 17 | 740 | 19 | 0.25 | <5 | 5 | 759 | <20 | 0.10 | 10 | <10 |
| I277507 | | 1.40 | 1055 | 1 | 3.32 | 89 | 1610 | 18 | 2.90 | 7 | 16 | 1465 | 20 | 0.23 | <10 | <10 |
| I277508 | | 1.11 | 773 | <1 | 3.31 | 28 | 790 | 24 | 0.29 | 6 | 7 | 1640 | <20 | 0.12 | <10 | <10 |
| I277509 | | 0.99 | 852 | <1 | 2.99 | 27 | 880 | 35 | 0.89 | 6 | 7 | 1195 | <20 | 0.11 | <10 | <10 |
| I277510 | | 0.78 | 784 | <1 | 2.47 | 21 | 770 | 155 | 0.79 | 6 | 5 | 708 | <20 | 0.10 | <10 | <10 |
| I277511 | | 0.77 | 992 | <1 | 3.27 | 18 | 730 | 30 | 0.48 | 7 | 5 | 1125 | <20 | 0.08 | <10 | <10 |
| I277512 | | 0.83 | 801 | <1 | 3.87 | 19 | 770 | 20 | 0.74 | <5 | 5 | 675 | <20 | 0.12 | <10 | <10 |
| I277513 | | 1.29 | 978 | <1 | 2.99 | 18 | 680 | 65 | 0.38 | 5 | 4 | 717 | <20 | 0.10 | <10 | <10 |
| I277514 | | 0.73 | 878 | <1 | 3.08 | 18 | 720 | 38 | 0.51 | 6 | 5 | 663 | <20 | 0.12 | <10 | <10 |
| I277515 | | 1.02 | 1255 | <1 | 3.01 | 28 | 950 | 33 | 0.31 | 6 | 7 | 519 | <20 | 0.18 | <10 | <10 |
| I277516 | | 2.40 | 894 | <1 | 3.38 | 27 | 1810 | 34 | 2.58 | 6 | 13 | 519 | 20 | 0.29 | <10 | <10 |
| I277517 | | 0.92 | 738 | <1 | 2.65 | 32 | 1040 | 36 | 2.13 | <5 | 8 | 780 | <20 | 0.10 | <10 | <10 |
| I277518 | | 0.98 | 920 | <1 | 2.80 | 23 | 880 | 14 | 0.68 | 8 | 7 | 964 | <20 | 0.09 | 10 | <10 |
| I277519 | | 0.97 | 1820 | <1 | 2.62 | 23 | 850 | 32 | 0.54 | 8 | 7 | 535 | <20 | 0.17 | <10 | <10 |
| I277520 | | 1.41 | 1295 | <1 | 2.17 | 33 | 1550 | 34 | 2.46 | <5 | 12 | 1450 | <20 | 0.15 | <10 | <10 |
| I277521 | | 0.90 | 950 | <1 | 2.83 | 17 | 660 | 36 | 0.70 | <5 | 6 | 1145 | <20 | 0.09 | <10 | <10 |
| I277522 | | 0.69 | 874 | <1 | 3.54 | 17 | 730 | 54 | 0.73 | 5 | 5 | 991 | <20 | 0.09 | <10 | <10 |
| I277523 | | 1.04 | 909 | <1 | 3.00 | 22 | 820 | 24 | 0.71 | 6 | 6 | 1090 | <20 | 0.10 | 10 | <10 |
| I277524 | | 1.12 | 1215 | <1 | 2.58 | 19 | 870 | 10 | 0.34 | 7 | 7 | 1040 | <20 | 0.10 | <10 | <10 |
| I277525 | | 1.20 | 1040 | 1 | 3.06 | 30 | 1310 | 29 | 1.14 | <5 | 11 | 929 | <20 | 0.23 | <10 | <10 |
| I277526 | | 0.42 | 711 | <1 | 3.68 | 18 | 750 | 41 | 0.96 | 6 | 6 | 534 | <20 | 0.14 | <10 | <10 |
| I277527 | | 0.73 | 1285 | <1 | 3.76 | 16 | 810 | 103 | 0.88 | 5 | 5 | 966 | <20 | 0.12 | <10 | <10 |
| I277528 | | 0.77 | 757 | <1 | 3.37 | 19 | 720 | 26 | 0.18 | 6 | 5 | 1090 | <20 | 0.09 | <10 | <10 |
| I277529 | | 0.90 | 562 | <1 | 2.78 | 28 | 880 | 40 | 0.76 | 8 | 8 | 1070 | <20 | 0.14 | <10 | <10 |
| I277530 | | 1.24 | 715 | <1 | 2.65 | 36 | 920 | 26 | 1.92 | 10 | 9 | 929 | <20 | 0.16 | <10 | <10 |
| I277531 | | 3.02 | 1790 | <1 | 1.68 | 142 | 1020 | 33 | 0.32 | <5 | 16 | 184 | <20 | 0.24 | <10 | <10 |
| I277532 | | 0.76 | 563 | <1 | 4.03 | 17 | 790 | 46 | 0.06 | <5 | 5 | 1300 | <20 | 0.14 | <10 | <10 |
| I277533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I277534 | | 0.50 | 678 | 10 | 4.07 | 23 | 950 | 53 | 1.35 | 6 | 7 | 943 | <20 | 0.13 | <10 | <10 |
| I277535 | | 0.59 | 539 | <1 | 3.19 | 18 | 760 | 28 | 0.42 | <5 | 5 | 617 | <20 | 0.15 | <10 | <10 |
| I277536 | | 0.40 | 247 | 11 | 3.68 | 18 | 800 | 70 | 1.09 | 6 | 6 | 651 | <20 | 0.16 | <10 | <10 |
| I277537 | | 3.75 | 655 | <1 | 2.80 | 133 | 1920 | 13 | 0.05 | 8 | 12 | 1010 | <20 | 0.35 | <10 | <10 |
| I277538 | | 0.62 | 673 | <1 | 3.39 | 17 | 740 | 27 | 0.35 | <5 | 5 | 1055 | <20 | 0.11 | <10 | <10 |
| I277539 | | 0.64 | 816 | <1 | 3.04 | 25 | 810 | 30 | 0.26 | <5 | 7 | 986 | <20 | 0.12 | 10 | <10 |
| I277540 | | 0.72 | 678 | <1 | 3.65 | 20 | 800 | 23 | 0.63 | 8 | 7 | 965 | <20 | 0.16 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

| 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 |
|---|---|---|---|---|
| I277501 | | 83 | <10 | 52 |
| I277502 | | 45 | <10 | 59 |
| I277503 | | 47 | <10 | 47 |
| I277504 | | 48 | <10 | 53 |
| I277505 | | 62 | <10 | 53 |
| I277506 | | 47 | <10 | 57 |
| I277507 | | 157 | <10 | 70 |
| I277508 | | 68 | <10 | 121 |
| I277509 | | 68 | <10 | 143 |
| I277510 | | 49 | <10 | 160 |
| I277511 | | 43 | <10 | 196 |
| I277512 | | 49 | <10 | 96 |
| I277513 | | 44 | <10 | 140 |
| I277514 | | 48 | <10 | 164 |
| I277515 | | 64 | <10 | 108 |
| I277516 | | 144 | <10 | 247 |
| I277517 | | 70 | <10 | 102 |
| I277518 | | 64 | <10 | 80 |
| I277519 | | 70 | 10 | 105 |
| I277520 | | 72 | <10 | 101 |
| I277521 | | 50 | <10 | 234 |
| I277522 | | 46 | <10 | 142 |
| I277523 | | 63 | <10 | 167 |
| I277524 | | 66 | <10 | 95 |
| I277525 | | 101 | <10 | 72 |
| I277526 | | 70 | <10 | 129 |
| I277527 | | 42 | <10 | 57 |
| I277528 | | 54 | <10 | 154 |
| I277529 | | 73 | <10 | 88 |
| I277530 | | 84 | <10 | 81 |
| I277531 | | 129 | <10 | 318 |
| I277532 | | 48 | <10 | 39 |
| I277533 | | NSS | NSS | NSS |
| I277534 | | 64 | <10 | 118 |
| I277535 | | 45 | <10 | 129 |
| I277536 | | 54 | 10 | 99 |
| I277537 | | 116 | <10 | 108 |
| I277538 | | 47 | <10 | 148 |
| I277539 | | 69 | <10 | 88 |
| I277540 | | 62 | <10 | 55 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I277541 | | <0.5 | 6.20 | 6 | 5950 | 1.0 | <2 | 2.04 | <0.5 | 5 | 50 | 20 | 1.88 | 10 | 1.15 | 20 |
| I277542 | | <0.5 | 7.56 | 18 | 1710 | 2.1 | <2 | 1.75 | <0.5 | 14 | 76 | 5 | 2.81 | 20 | 2.08 | 30 |
| I277543 | | <0.5 | 6.70 | 6 | 1810 | 2.0 | <2 | 1.90 | <0.5 | 11 | 117 | 23 | 2.89 | 20 | 1.99 | 20 |
| I277544 | | <0.5 | 6.84 | 14 | 960 | 1.7 | <2 | 4.32 | <0.5 | 23 | 81 | 417 | 4.09 | 20 | 2.46 | 60 |
| I277545 | | <0.5 | 7.11 | 20 | 2480 | 2.6 | <2 | 2.49 | <0.5 | 19 | 97 | 262 | 5.18 | 20 | 3.95 | 60 |
| I277546 | | <0.5 | 7.09 | 29 | 6830 | 4.5 | <2 | 4.09 | <0.5 | 24 | 90 | 53 | 9.00 | 20 | 3.05 | 180 |
| I277547 | | <0.5 | 6.38 | 32 | 520 | 8.2 | <2 | 7.04 | <0.5 | 13 | 61 | 44 | 6.11 | 20 | 1.32 | 150 |
| I277548 | | <0.5 | 6.45 | 22 | 3140 | 7.8 | <2 | 4.04 | <0.5 | 25 | 64 | 227 | 6.97 | 20 | 4.34 | 150 |
| I277549 | | <0.5 | 6.42 | 50 | 6280 | 7.5 | <2 | 5.93 | <0.5 | 25 | 65 | 38 | 7.19 | 20 | 4.60 | 150 |
| I277550 | | <0.5 | 7.79 | 20 | 5340 | 5.9 | <2 | 2.63 | <0.5 | 15 | 78 | 16 | 4.16 | 20 | 4.49 | 60 |
| I277551 | | <0.5 | 8.01 | 18 | 5020 | 5.9 | <2 | 2.19 | <0.5 | 12 | 74 | 311 | 3.62 | 20 | 5.65 | 60 |
| I277552 | | <0.5 | 6.89 | 21 | 2160 | 2.0 | <2 | 2.73 | <0.5 | 17 | 35 | 112 | 4.67 | 10 | 3.68 | 60 |
| I277553 | | <0.5 | 7.06 | 14 | 1470 | 1.8 | 3 | 1.96 | <0.5 | 36 | 447 | 739 | 4.79 | 20 | 3.86 | 60 |
| I277554 | | <0.5 | 4.35 | 9 | 320 | 0.6 | <2 | 7.90 | <0.5 | 8 | 66 | 16 | 3.45 | 10 | 1.47 | 10 |
| I277555 | | <0.5 | 6.39 | 11 | 510 | 1.6 | <2 | 3.80 | <0.5 | 20 | 325 | 15 | 6.12 | 20 | 3.80 | 50 |
| I277556 | | <0.5 | 6.17 | 12 | 790 | 1.7 | <2 | 5.62 | <0.5 | 10 | 115 | 22 | 5.27 | 40 | 3.72 | 20 |
| N423811 | | <0.5 | 6.61 | <5 | 350 | 1.2 | <2 | 1.58 | <0.5 | 18 | 128 | 3 | 3.45 | 20 | 1.88 | 20 |
| N423812 | | <0.5 | 7.12 | 11 | 440 | 1.2 | <2 | 0.93 | <0.5 | 25 | 169 | 6 | 4.08 | 20 | 2.01 | 20 |
| N423813 | | <0.5 | 7.22 | 23 | 2570 | 1.6 | <2 | 1.56 | <0.5 | 6 | 37 | 10 | 2.24 | 20 | 2.16 | 30 |
| N423814 | | <0.5 | 7.50 | 34 | 1900 | 1.8 | <2 | 1.09 | <0.5 | 5 | 40 | 3 | 2.05 | 20 | 2.71 | 40 |
| N423815 | | <0.5 | 6.92 | 9 | 1830 | 1.8 | <2 | 1.98 | <0.5 | 7 | 38 | 2 | 2.15 | 20 | 2.39 | 30 |
| N423816 | | <0.5 | 6.79 | 48 | 4490 | 1.1 | <2 | 0.30 | <0.5 | 7 | 38 | 6 | 1.86 | 20 | 1.69 | 30 |
| N423817 | | <0.5 | 6.48 | 28 | 1790 | 1.6 | 3 | 2.71 | <0.5 | 13 | 69 | 9 | 2.90 | 20 | 2.21 | 30 |
| N423818 | | <0.5 | 6.64 | 15 | 1230 | 1.5 | <2 | 3.49 | 0.7 | 18 | 84 | 48 | 4.03 | 20 | 2.66 | 50 |
| N423819 | | <0.5 | 6.58 | 6 | 1700 | 1.7 | <2 | 2.52 | <0.5 | 8 | 59 | 2 | 2.67 | 20 | 2.12 | 20 |
| N423820 | | <0.5 | 7.58 | 22 | 2370 | 1.8 | <2 | 1.07 | <0.5 | 7 | 42 | 5 | 2.15 | 20 | 3.27 | 40 |
| N423821 | | <0.5 | 7.95 | 7 | 1670 | 1.9 | <2 | 0.95 | <0.5 | 9 | 71 | 9 | 2.54 | 20 | 2.73 | 40 |
| N423822 | | <0.5 | 8.06 | 18 | 2030 | 2.1 | <2 | 0.91 | <0.5 | 11 | 82 | 42 | 3.32 | 20 | 3.19 | 40 |
| N423823 | | 0.6 | 7.12 | 31 | 2060 | 1.9 | <2 | 2.07 | <0.5 | 10 | 63 | 25 | 2.78 | 20 | 2.37 | 30 |
| N423824 | | <0.5 | 6.96 | 10 | 2060 | 1.8 | <2 | 3.11 | <0.5 | 10 | 72 | 6 | 2.70 | 20 | 2.28 | 30 |
| N423825 | | <0.5 | 7.43 | 10 | 2650 | 1.8 | <2 | 1.58 | <0.5 | 6 | 43 | 10 | 2.21 | 20 | 2.20 | 30 |
| N423826 | | <0.5 | 7.63 | 21 | 2090 | 1.9 | 2 | 2.01 | <0.5 | 8 | 40 | 7 | 2.27 | 20 | 2.44 | 30 |
| N423827 | | 2.2 | 7.11 | 16 | 1000 | 1.3 | 2 | 1.01 | <0.5 | 6 | 40 | 6 | 2.40 | 20 | 1.75 | 30 |
| N423828 | | 0.7 | 8.23 | 17 | 390 | 3.0 | 2 | 1.96 | <0.5 | 17 | 35 | 28 | 6.12 | 20 | 3.02 | 80 |
| N423829 | | <0.5 | 6.96 | 10 | 1900 | 1.7 | <2 | 2.02 | <0.5 | 14 | 55 | 24 | 2.77 | 20 | 1.98 | 30 |
| N423830 | | <0.5 | 6.45 | 6 | 1420 | 1.8 | <2 | 2.47 | <0.5 | 8 | 47 | 33 | 2.38 | 20 | 2.15 | 30 |
| N423831 | | <0.5 | 6.44 | 7 | 2670 | 2.2 | <2 | 2.20 | <0.5 | 7 | 46 | 7 | 2.64 | 20 | 2.61 | 30 |
| N423832 | | 2.6 | 6.24 | 63 | 220 | 1.8 | <2 | 1.86 | <0.5 | 24 | 155 | 83 | 5.53 | 20 | 2.69 | 30 |
| N423833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N423834 | | <0.5 | 7.58 | 11 | 2340 | 1.8 | <2 | 1.03 | <0.5 | 5 | 39 | 23 | 2.06 | 20 | 2.83 | 40 |

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

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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 SD14042829

| 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 |
| I277541 | | 0.73 | 612 | <1 | 4.09 | 14 | 860 | 13 | 0.54 | <5 | 4 | 1490 | <20 | 0.09 | <10 | <10 |
| I277542 | | 0.84 | 497 | <1 | 4.07 | 31 | 860 | 13 | 0.84 | 6 | 8 | 1265 | <20 | 0.14 | <10 | <10 |
| I277543 | | 1.38 | 474 | <1 | 3.56 | 29 | 1120 | 10 | 0.06 | 5 | 11 | 580 | <20 | 0.21 | <10 | <10 |
| I277544 | | 1.84 | 681 | 1 | 3.53 | 22 | 1890 | 14 | 0.51 | 8 | 13 | 481 | <20 | 0.33 | 10 | <10 |
| I277545 | | 2.37 | 729 | 2 | 3.03 | 26 | 2270 | 16 | 0.06 | 5 | 13 | 877 | 20 | 0.35 | <10 | <10 |
| I277546 | | 2.27 | 990 | 3 | 2.32 | 46 | 3740 | 47 | 0.14 | 6 | 20 | 1310 | 40 | 0.53 | <10 | <10 |
| I277547 | | 3.07 | 2120 | 6 | 3.37 | 25 | 3190 | 20 | 0.79 | 10 | 20 | 1345 | 40 | 0.61 | <10 | <10 |
| I277548 | | 3.48 | 1330 | 4 | 1.73 | 23 | 3420 | 19 | 0.04 | <5 | 20 | 1085 | 40 | 0.65 | <10 | <10 |
| I277549 | | 3.18 | 2310 | 1 | 1.25 | 26 | 4400 | 20 | 0.14 | 12 | 20 | 5310 | 50 | 0.64 | <10 | <10 |
| I277550 | | 1.17 | 1300 | 1 | 1.79 | 20 | 1330 | 52 | 0.29 | 8 | 6 | 2020 | 20 | 0.42 | <10 | <10 |
| I277551 | | 1.02 | 1425 | <1 | 2.45 | 19 | 1160 | 32 | 0.14 | 9 | 7 | 1425 | 20 | 0.41 | <10 | <10 |
| I277552 | | 0.92 | 1200 | <1 | 3.74 | 11 | 2310 | 38 | 0.06 | <5 | 8 | 953 | 20 | 0.33 | <10 | <10 |
| I277553 | | 1.18 | 340 | 133 | 1.26 | 190 | 1830 | 11 | 1.41 | 10 | 27 | 188 | <20 | 0.22 | <10 | <10 |
| I277554 | | 3.47 | 1215 | <1 | 1.09 | 39 | 280 | 15 | <0.01 | <5 | 7 | 604 | <20 | 0.14 | <10 | <10 |
| I277555 | | 3.19 | 939 | <1 | 1.08 | 187 | 1390 | 36 | 0.23 | 14 | 20 | 506 | <20 | 0.36 | <10 | <10 |
| I277556 | | 2.94 | 1185 | <1 | 0.39 | 55 | 700 | 19 | 0.23 | 13 | 12 | 674 | <20 | 0.23 | <10 | <10 |
| N423811 | | 2.06 | 687 | <1 | 2.29 | 93 | 560 | 11 | 0.51 | 11 | 11 | 225 | <20 | 0.12 | <10 | <10 |
| N423812 | | 1.46 | 465 | <1 | 2.78 | 115 | 730 | 26 | 2.15 | 8 | 14 | 261 | <20 | 0.12 | <10 | <10 |
| N423813 | | 0.69 | 619 | <1 | 3.24 | 16 | 770 | 19 | 0.59 | <5 | 5 | 704 | <20 | 0.11 | <10 | <10 |
| N423814 | | 0.54 | 945 | <1 | 3.00 | 17 | 740 | 19 | 0.65 | 5 | 5 | 452 | <20 | 0.14 | 10 | <10 |
| N423815 | | 0.77 | 849 | <1 | 3.39 | 19 | 730 | 32 | 0.25 | 5 | 5 | 667 | <20 | 0.16 | <10 | <10 |
| N423816 | | 0.17 | 169 | <1 | 3.38 | 16 | 670 | 141 | 0.42 | <5 | 4 | 467 | <20 | 0.06 | <10 | <10 |
| N423817 | | 1.06 | 626 | 2 | 3.16 | 32 | 840 | 33 | 1.42 | 7 | 7 | 1365 | <20 | 0.11 | <10 | <10 |
| N423818 | | 2.02 | 654 | <1 | 2.22 | 49 | 1730 | 118 | 0.02 | <5 | 10 | 1915 | 20 | 0.24 | <10 | <10 |
| N423819 | | 0.82 | 736 | <1 | 3.31 | 23 | 790 | 13 | 0.15 | 6 | 6 | 1460 | <20 | 0.11 | 10 | <10 |
| N423820 | | 0.55 | 852 | <1 | 2.74 | 17 | 690 | 28 | 0.43 | <5 | 5 | 792 | <20 | 0.08 | <10 | <10 |
| N423821 | | 0.43 | 616 | <1 | 2.94 | 22 | 700 | 55 | 0.49 | 5 | 7 | 703 | <20 | 0.09 | <10 | <10 |
| N423822 | | 0.55 | 578 | <1 | 3.26 | 32 | 940 | 25 | 0.82 | <5 | 8 | 950 | <20 | 0.11 | <10 | <10 |
| N423823 | | 0.80 | 724 | <1 | 3.42 | 27 | 930 | 44 | 0.37 | 5 | 7 | 1105 | <20 | 0.18 | <10 | <10 |
| N423824 | | 1.24 | 968 | <1 | 3.26 | 28 | 860 | 28 | 0.63 | <5 | 7 | 1195 | <20 | 0.10 | 10 | <10 |
| N423825 | | 0.69 | 771 | <1 | 3.65 | 19 | 740 | 26 | 0.35 | 5 | 5 | 1035 | <20 | 0.10 | <10 | <10 |
| N423826 | | 0.80 | 721 | <1 | 3.87 | 19 | 790 | 62 | 1.09 | 9 | 5 | 553 | <20 | 0.11 | <10 | <10 |
| N423827 | | 0.51 | 527 | 1 | 3.58 | 15 | 680 | 115 | 1.74 | 5 | 5 | 412 | <20 | 0.06 | <10 | <10 |
| N423828 | | 1.16 | 688 | <1 | 3.35 | 15 | 2810 | 39 | 3.42 | 6 | 11 | 898 | 20 | 0.20 | <10 | <10 |
| N423829 | | 0.84 | 821 | <1 | 3.57 | 27 | 930 | 26 | 0.36 | 5 | 7 | 422 | <20 | 0.12 | <10 | <10 |
| N423830 | | 0.97 | 724 | <1 | 3.02 | 25 | 920 | 10 | 0.11 | 9 | 6 | 744 | <20 | 0.15 | <10 | <10 |
| N423831 | | 0.99 | 945 | <1 | 1.97 | 23 | 930 | 8 | 0.29 | <5 | 7 | 593 | <20 | 0.13 | <10 | <10 |
| N423832 | | 1.27 | 1445 | <1 | 2.14 | 105 | 840 | 46 | 3.88 | 6 | 16 | 640 | <20 | 0.14 | 10 | <10 |
| N423833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N423834 | | 0.44 | 654 | <1 | 3.21 | 16 | 630 | 33 | 0.18 | <5 | 5 | 754 | <20 | 0.08 | 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 SD14042829

| 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 |
|---|---|---|---|---|
| I277541 | | 29 | <10 | 36 |
| I277542 | | 72 | <10 | 42 |
| I277543 | | 87 | <10 | 90 |
| I277544 | | 128 | 10 | 36 |
| I277545 | | 133 | 20 | 56 |
| I277546 | | 273 | <10 | 90 |
| I277547 | | 392 | 10 | 169 |
| I277548 | | 270 | <10 | 189 |
| I277549 | | 230 | <10 | 235 |
| I277550 | | 198 | <10 | 238 |
| I277551 | | 184 | 10 | 93 |
| I277552 | | 107 | <10 | 75 |
| I277553 | | 229 | 20 | 40 |
| I277554 | | 48 | <10 | 63 |
| I277555 | | 146 | 10 | 80 |
| I277556 | | 120 | 10 | 108 |
| N423811 | | 89 | <10 | 98 |
| N423812 | | 94 | <10 | 71 |
| N423813 | | 48 | <10 | 46 |
| N423814 | | 51 | <10 | 196 |
| N423815 | | 47 | <10 | 128 |
| N423816 | | 36 | <10 | 95 |
| N423817 | | 67 | <10 | 157 |
| N423818 | | 104 | <10 | 256 |
| N423819 | | 62 | <10 | 156 |
| N423820 | | 55 | <10 | 118 |
| N423821 | | 55 | <10 | 112 |
| N423822 | | 73 | <10 | 132 |
| N423823 | | 71 | <10 | 140 |
| N423824 | | 60 | <10 | 174 |
| N423825 | | 48 | <10 | 122 |
| N423826 | | 48 | <10 | 138 |
| N423827 | | 39 | <10 | 47 |
| N423828 | | 145 | <10 | 108 |
| N423829 | | 66 | <10 | 97 |
| N423830 | | 59 | <10 | 79 |
| N423831 | | 58 | <10 | 145 |
| N423832 | | 136 | <10 | 110 |
| N423833 | | NSS | NSS | NSS |
| N423834 | | 47 | <10 | 133 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

| 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 |
| N423835 | | <0.5 | 7.04 | 17 | 1780 | 1.9 | <2 | 2.00 | <0.5 | 8 | 42 | 13 | 2.49 | 20 | 2.82 | 30 |
| N423836 | | <0.5 | 6.99 | 12 | 1710 | 2.3 | 2 | 2.77 | <0.5 | 17 | 96 | 13 | 3.49 | 20 | 2.42 | 30 |
| N423837 | | 0.6 | 7.21 | 83 | 1250 | 2.2 | <2 | 0.65 | <0.5 | 20 | 202 | 30 | 4.73 | 20 | 2.56 | 40 |
| N423838 | | 1.0 | 6.57 | 38 | 1280 | 1.6 | <2 | 2.77 | <0.5 | 7 | 63 | 52 | 3.39 | 20 | 2.60 | 30 |
| N423839 | | <0.5 | 7.34 | 19 | 1490 | 1.4 | <2 | 1.56 | <0.5 | 13 | 96 | 17 | 2.79 | 20 | 2.35 | 40 |
| N423840 | | <0.5 | 7.32 | 12 | 1980 | 1.7 | 2 | 0.86 | <0.5 | 9 | 41 | 2 | 1.87 | 20 | 2.19 | 40 |
| N423841 | | <0.5 | 7.15 | 8 | 2120 | 1.4 | <2 | 1.49 | <0.5 | 3 | 40 | 11 | 1.77 | 20 | 3.20 | 30 |
| N423842 | | <0.5 | 7.28 | 12 | 1860 | 1.8 | <2 | 2.04 | <0.5 | 8 | 62 | 6 | 2.33 | 20 | 2.27 | 30 |
| N423843 | | <0.5 | 6.70 | 9 | 1420 | 1.7 | <2 | 2.33 | <0.5 | 10 | 51 | 23 | 2.63 | 20 | 2.53 | 20 |
| N423844 | | 3.6 | 6.76 | 17 | 3590 | 2.9 | <2 | 3.73 | <0.5 | 21 | 95 | 168 | 5.52 | 20 | 3.70 | 70 |
| L174868 | | <0.5 | 7.24 | 16 | 1580 | 2.5 | <2 | 3.93 | <0.5 | 17 | 86 | 200 | 5.03 | 20 | 2.42 | 70 |
| L174869 | | <0.5 | 6.70 | 5 | 1900 | 2.0 | 3 | 1.88 | <0.5 | 12 | 62 | 10 | 2.76 | 20 | 2.17 | 20 |
| L174870 | | <0.5 | 6.54 | 8 | 500 | 2.9 | <2 | 1.37 | <0.5 | 15 | 196 | 213 | 4.42 | 20 | 3.35 | 30 |
| L174871 | | <0.5 | 7.06 | 22 | 1600 | 1.7 | 2 | 1.46 | <0.5 | 15 | 114 | 13 | 2.57 | 20 | 2.36 | 30 |
| L174872 | | <0.5 | 6.29 | 41 | 750 | 2.0 | <2 | 4.06 | <0.5 | 26 | 249 | 17 | 3.81 | 20 | 3.57 | 40 |
| L174873 | | <0.5 | 6.89 | 17 | 1980 | 3.6 | <2 | 3.38 | <0.5 | 20 | 114 | 315 | 5.00 | 20 | 3.11 | 70 |
| L174874 | | <0.5 | 6.23 | 18 | 5640 | 8.7 | <2 | 4.93 | <0.5 | 25 | 62 | 102 | 7.13 | 20 | 2.95 | 150 |
| L174875 | | <0.5 | 6.99 | 17 | 3900 | 2.3 | 5 | 3.22 | <0.5 | 20 | 88 | 16 | 4.77 | 20 | 4.43 | 60 |
| L174876 | | <0.5 | 7.37 | 25 | 2310 | 3.1 | 5 | 2.34 | <0.5 | 16 | 92 | 92 | 4.80 | 20 | 4.38 | 60 |
| L174877 | | <0.5 | 7.43 | 30 | 6470 | 6.1 | 4 | 3.63 | <0.5 | 24 | 66 | 138 | 9.31 | 20 | 3.01 | 190 |
| L174878 | | <0.5 | 6.28 | 34 | 4120 | 8.0 | 4 | 5.95 | <0.5 | 25 | 63 | 48 | 7.00 | 20 | 1.56 | 130 |
| L174879 | | <0.5 | 7.87 | 8 | 2250 | 3.0 | 3 | 2.35 | <0.5 | 14 | 21 | 102 | 4.19 | 20 | 5.08 | 60 |
| L174880 | | 0.5 | 8.02 | 9 | 2480 | 1.9 | 21 | 0.69 | <0.5 | 10 | 30 | 57 | 2.83 | 20 | 1.97 | 40 |
| L174881 | | <0.5 | 6.63 | 25 | 840 | 1.3 | <2 | 1.96 | <0.5 | 7 | 150 | 239 | 3.07 | 20 | 1.88 | 20 |
| L174882 | | <0.5 | 6.77 | 5 | 1560 | 1.9 | <2 | 2.32 | <0.5 | 5 | 60 | 21 | 2.88 | 20 | 2.72 | 30 |
| L174883 | | <0.5 | 8.43 | 24 | 1770 | 1.9 | <2 | 1.58 | <0.5 | 21 | 83 | 11 | 3.85 | 20 | 2.88 | 40 |
| L174884 | | <0.5 | 7.48 | 45 | 1920 | 2.1 | 5 | 1.45 | <0.5 | 74 | 62 | 12 | 3.18 | 20 | 3.45 | 40 |
| L174885 | | <0.5 | 6.09 | 10 | 1130 | 2.3 | 2 | 2.98 | <0.5 | 4 | 135 | 1500 | 2.26 | 20 | 2.23 | 20 |
| L174886 | | <0.5 | 6.85 | 8 | 800 | 1.1 | 3 | 1.13 | <0.5 | 21 | 146 | 22 | 4.13 | 10 | 1.18 | 20 |
| L174887 | | <0.5 | 7.57 | 19 | 2100 | 1.7 | 4 | 1.95 | <0.5 | 16 | 88 | 51 | 4.83 | 20 | 1.54 | 40 |
| L174888 | | <0.5 | 6.91 | 42 | 670 | 1.9 | <2 | 3.12 | <0.5 | 16 | 80 | 43 | 2.73 | 20 | 3.10 | 40 |
| L174889 | | <0.5 | 7.37 | 47 | 1160 | 1.8 | 4 | 2.43 | <0.5 | 23 | 75 | 11 | 4.63 | 20 | 1.69 | 60 |
| L174890 | | <0.5 | 6.74 | 24 | 1580 | 2.0 | <2 | 3.76 | <0.5 | 13 | 47 | 53 | 3.93 | 20 | 3.21 | 30 |
| L174891 | | <0.5 | 7.26 | 7 | 2730 | 1.5 | 4 | 3.28 | <0.5 | 14 | 71 | 1 | 4.34 | 20 | 1.81 | 60 |
| L174892 | | <0.5 | 7.57 | 24 | 1170 | 1.7 | 4 | 2.84 | <0.5 | 15 | 79 | 156 | 4.51 | 20 | 1.81 | 60 |
| L174893 | | 0.7 | 8.94 | 230 | 1340 | 2.2 | 4 | 0.27 | <0.5 | 11 | 106 | 36 | 4.47 | 20 | 3.62 | 70 |
| L174894 | | <0.5 | 6.88 | 9 | 1660 | 1.7 | <2 | 2.58 | <0.5 | 13 | 72 | 126 | 4.17 | 20 | 2.61 | 40 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N423835 | | 0.94 | 1895 | <1 | 3.01 | 20 | 800 | 174 | 0.91 | <5 | 5 | 1045 | <20 | 0.10 | <10 | <10 |
| N423836 | | 1.24 | 1110 | <1 | 3.69 | 42 | 1220 | 14 | 0.65 | 5 | 11 | 1475 | <20 | 0.15 | <10 | <10 |
| N423837 | | 0.78 | 426 | <1 | 2.95 | 89 | 810 | 33 | 1.32 | 8 | 14 | 509 | <20 | 0.16 | 10 | <10 |
| N423838 | | 1.09 | 867 | <1 | 3.09 | 25 | 950 | 18 | 1.54 | 6 | 8 | 1590 | <20 | 0.11 | <10 | <10 |
| N423839 | | 0.61 | 529 | <1 | 3.54 | 36 | 970 | 25 | 1.54 | <5 | 8 | 954 | <20 | 0.09 | <10 | <10 |
| N423840 | | 0.44 | 335 | <1 | 3.69 | 20 | 740 | 18 | 1.01 | 5 | 5 | 690 | <20 | 0.10 | <10 | <10 |
| N423841 | | 0.60 | 778 | <1 | 2.70 | 13 | 690 | 12 | 0.21 | <5 | 5 | 912 | <20 | 0.09 | <10 | <10 |
| N423842 | | 0.85 | 499 | <1 | 3.70 | 26 | 850 | 15 | 0.33 | <5 | 7 | 1370 | <20 | 0.12 | <10 | <10 |
| N423843 | | 0.96 | 656 | <1 | 3.17 | 17 | 710 | 6 | 0.41 | 7 | 7 | 927 | <20 | 0.19 | <10 | <10 |
| N423844 | | 2.79 | 1895 | <1 | 1.82 | 34 | 2180 | 40 | 0.40 | 13 | 19 | 2160 | 30 | 0.27 | <10 | <10 |
| L174868 | | 1.95 | 721 | <1 | 3.72 | 24 | 2200 | 5 | 0.03 | 8 | 14 | 517 | 20 | 0.34 | 10 | <10 |
| L174869 | | 0.98 | 607 | <1 | 3.75 | 22 | 1070 | 15 | 0.54 | 9 | 8 | 572 | <20 | 0.15 | <10 | <10 |
| L174870 | | 1.33 | 553 | 6 | 1.59 | 112 | 920 | 2 | 0.07 | <5 | 17 | 107 | <20 | 0.32 | <10 | <10 |
| L174871 | | 0.92 | 618 | <1 | 2.91 | 48 | 840 | 13 | 0.39 | 7 | 9 | 401 | <20 | 0.08 | <10 | <10 |
| L174872 | | 2.17 | 579 | <1 | 0.32 | 104 | 1230 | 3 | 1.11 | <5 | 16 | 264 | <20 | 0.12 | <10 | <10 |
| L174873 | | 2.51 | 946 | <1 | 3.28 | 29 | 2550 | 14 | 0.10 | 5 | 16 | 747 | 20 | 0.37 | <10 | <10 |
| L174874 | | 3.21 | 1430 | 2 | 1.45 | 32 | 3950 | 14 | 0.32 | 10 | 19 | 2100 | 40 | 0.62 | <10 | <10 |
| L174875 | | 2.37 | 1000 | 1 | 2.27 | 28 | 2310 | 10 | 0.04 | 12 | 14 | 1385 | 20 | 0.36 | <10 | <10 |
| L174876 | | 2.18 | 696 | 1 | 3.08 | 24 | 2230 | 11 | 0.01 | 6 | 15 | 873 | 20 | 0.37 | <10 | <10 |
| L174877 | | 2.34 | 791 | 3 | 2.77 | 45 | 3780 | 47 | 0.04 | <5 | 18 | 1090 | 50 | 0.61 | <10 | <10 |
| L174878 | | 3.13 | 1945 | 1 | 2.68 | 27 | 3910 | 24 | 0.05 | 6 | 20 | 3480 | 40 | 0.65 | 10 | <10 |
| L174879 | | 0.68 | 824 | 1 | 3.00 | 13 | 2900 | 74 | 0.06 | 9 | 5 | 990 | 20 | 0.33 | <10 | <10 |
| L174880 | | 0.32 | 198 | 6 | 3.62 | 14 | 820 | 19 | 1.13 | <5 | 6 | 443 | <20 | 0.12 | <10 | <10 |
| L174881 | | 1.28 | 922 | 1 | 3.08 | 83 | 660 | 47 | 0.90 | 11 | 12 | 551 | <20 | 0.27 | <10 | <10 |
| L174882 | | 1.12 | 790 | 1 | 2.72 | 30 | 890 | 9 | 0.03 | 6 | 8 | 1225 | <20 | 0.20 | <10 | <10 |
| L174883 | | 0.78 | 521 | 4 | 3.16 | 38 | 980 | 19 | 1.37 | 6 | 10 | 799 | <20 | 0.14 | <10 | <10 |
| L174884 | | 0.95 | 470 | <1 | 2.79 | 25 | 910 | 29 | 1.76 | <5 | 8 | 788 | <20 | 0.18 | <10 | <10 |
| L174885 | | 1.34 | 682 | 16 | 2.93 | 63 | 690 | 6 | 0.18 | 8 | 12 | 666 | <20 | 0.24 | 10 | <10 |
| L174886 | | 1.30 | 459 | 1 | 3.58 | 86 | 710 | 4 | 1.03 | 5 | 13 | 393 | <20 | 0.24 | <10 | <10 |
| L174887 | | 2.66 | 635 | 1 | 3.64 | 49 | 1950 | 13 | 0.36 | 6 | 12 | 778 | <20 | 0.40 | <10 | <10 |
| L174888 | | 1.42 | 721 | 1 | 2.27 | 46 | 1970 | 6 | 0.13 | 11 | 11 | 267 | <20 | 0.19 | <10 | <10 |
| L174889 | | 1.79 | 550 | <1 | 3.50 | 55 | 1950 | 36 | 1.90 | 7 | 12 | 817 | <20 | 0.17 | <10 | <10 |
| L174890 | | 1.53 | 1020 | <1 | 2.10 | 13 | 1240 | 11 | 0.04 | <5 | 11 | 873 | <20 | 0.24 | <10 | <10 |
| L174891 | | 2.34 | 684 | <1 | 3.16 | 44 | 1870 | 6 | 0.17 | 11 | 12 | 2840 | 20 | 0.28 | <10 | <10 |
| L174892 | | 2.22 | 586 | <1 | 3.79 | 50 | 2000 | 13 | 0.04 | 7 | 12 | 572 | <20 | 0.30 | <10 | <10 |
| L174893 | | 0.50 | 48 | 9 | 2.83 | 32 | 1990 | 18 | 2.60 | 7 | 14 | 472 | <20 | 0.14 | <10 | <10 |
| L174894 | | 1.74 | 515 | 5 | 2.93 | 49 | 1880 | 8 | 0.08 | 7 | 11 | 272 | <20 | 0.21 | 10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

| 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 |
|---|---|---|---|---|
| N423835 | | 52 | <10 | 265 |
| N423836 | | 108 | <10 | 74 |
| N423837 | | 138 | <10 | 46 |
| N423838 | | 74 | <10 | 62 |
| N423839 | | 68 | <10 | 51 |
| N423840 | | 46 | <10 | 51 |
| N423841 | | 45 | <10 | 169 |
| N423842 | | 61 | <10 | 45 |
| N423843 | | 74 | <10 | 42 |
| N423844 | | 161 | <10 | 188 |
| L174868 | | 127 | <10 | 50 |
| L174869 | | 69 | <10 | 46 |
| L174870 | | 161 | <10 | 96 |
| L174871 | | 66 | <10 | 42 |
| L174872 | | 109 | <10 | 37 |
| L174873 | | 144 | <10 | 61 |
| L174874 | | 239 | 10 | 109 |
| L174875 | | 134 | <10 | 96 |
| L174876 | | 135 | 10 | 53 |
| L174877 | | 284 | 10 | 84 |
| L174878 | | 236 | <10 | 198 |
| L174879 | | 115 | <10 | 83 |
| L174880 | | 57 | 10 | 28 |
| L174881 | | 99 | <10 | 103 |
| L174882 | | 81 | <10 | 83 |
| L174883 | | 91 | <10 | 71 |
| L174884 | | 77 | <10 | 40 |
| L174885 | | 104 | <10 | 43 |
| L174886 | | 113 | <10 | 112 |
| L174887 | | 132 | <10 | 83 |
| L174888 | | 124 | <10 | 105 |
| L174889 | | 116 | <10 | 82 |
| L174890 | | 109 | <10 | 68 |
| L174891 | | 116 | <10 | 101 |
| L174892 | | 120 | <10 | 89 |
| L174893 | | 116 | <10 | 32 |
| L174894 | | 116 | <10 | 106 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042829

## 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