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 SD14042673

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 58 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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042673

| 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 |
| I279839 | | <0.5 | 6.47 | 11 | 870 | 1.0 | <2 | 1.11 | <0.5 | 21 | 207 | 38 | 4.33 | 20 | 1.44 | 20 |
| I279840 | | <0.5 | 6.58 | 37 | 840 | 1.2 | <2 | 1.65 | <0.5 | 17 | 170 | 42 | 3.76 | 20 | 1.08 | 20 |
| I279841 | | <0.5 | 6.68 | 87 | 670 | 1.1 | <2 | 2.13 | <0.5 | 19 | 201 | 47 | 4.34 | 20 | 1.18 | 20 |
| I279842 | | <0.5 | 9.27 | 312 | 3210 | 4.5 | <2 | 1.56 | <0.5 | 16 | 20 | 122 | 4.69 | 20 | 4.80 | 80 |
| I279843 | | <0.5 | 7.66 | <5 | 540 | 0.7 | <2 | 1.68 | <0.5 | 15 | 37 | 28 | 3.76 | 20 | 1.53 | 10 |
| I279844 | | <0.5 | 7.52 | 5 | 1160 | 2.9 | <2 | 0.53 | <0.5 | 9 | 44 | 1 | 2.75 | 20 | 2.07 | 30 |
| I279921 | | <0.5 | 8.07 | <5 | 2450 | 1.3 | <2 | 1.59 | <0.5 | 7 | 44 | 26 | 2.23 | 20 | 4.47 | 40 |
| I279922 | | <0.5 | 7.92 | <5 | 1870 | 1.3 | <2 | 1.10 | <0.5 | 6 | 33 | 10 | 1.92 | 20 | 4.68 | 40 |
| I279923 | | <0.5 | 7.86 | <5 | 3810 | 1.3 | <2 | 1.33 | <0.5 | 7 | 39 | 72 | 2.19 | 20 | 4.72 | 30 |
| N459011 | | <0.5 | 6.95 | 5 | 2000 | 2.6 | <2 | 0.67 | <0.5 | 3 | 24 | 1 | 1.21 | 20 | 2.64 | 20 |
| N459012 | | <0.5 | 6.34 | <5 | 710 | 1.2 | <2 | 1.37 | <0.5 | 13 | 87 | 71 | 2.52 | 20 | 1.76 | 20 |
| N459013 | | <0.5 | 6.90 | <5 | 800 | 1.3 | <2 | 1.69 | <0.5 | 14 | 93 | 25 | 2.62 | 20 | 1.56 | 30 |
| N459014 | | <0.5 | 2.09 | 413 | 490 | <0.5 | <2 | 5.23 | <0.5 | 54 | 1140 | 31 | 5.03 | 10 | 1.03 | <10 |
| N443621 | | <0.5 | 7.68 | <5 | 2000 | 1.3 | <2 | 1.07 | <0.5 | 5 | 40 | 12 | 1.80 | 20 | 4.55 | 30 |
| N443622 | | <0.5 | 7.76 | <5 | 2750 | 1.4 | <2 | 1.57 | <0.5 | 7 | 58 | 41 | 2.18 | 20 | 4.12 | 30 |
| N443623 | | <0.5 | 7.56 | <5 | 2100 | 1.7 | <2 | 2.01 | <0.5 | 9 | 53 | 24 | 2.97 | 20 | 4.31 | 50 |
| N443624 | | <0.5 | 7.54 | <5 | 2310 | 1.6 | <2 | 1.97 | <0.5 | 14 | 89 | 15 | 2.78 | 20 | 4.60 | 70 |
| N443625 | | <0.5 | 7.87 | <5 | 2860 | 2.2 | <2 | 1.53 | <0.5 | 7 | 63 | 7 | 2.52 | 20 | 4.20 | 40 |
| N443626 | | <0.5 | 8.31 | <5 | 1960 | 1.4 | <2 | 0.76 | <0.5 | 6 | 41 | 32 | 2.01 | 30 | 4.47 | 30 |
| N443627 | | <0.5 | 7.98 | <5 | 1890 | 1.3 | <2 | 0.74 | <0.5 | 6 | 32 | 6 | 1.68 | 20 | 4.85 | 30 |
| N443628 | | <0.5 | 7.34 | <5 | 2530 | 2.2 | <2 | 2.52 | <0.5 | 13 | 110 | 72 | 3.14 | 20 | 3.69 | 30 |
| N443629 | | <0.5 | 7.91 | <5 | 2000 | 1.8 | <2 | 0.94 | <0.5 | 7 | 44 | 37 | 1.88 | 20 | 4.44 | 30 |
| N443630 | | <0.5 | 7.30 | <5 | 1980 | 2.4 | <2 | 1.53 | <0.5 | 10 | 44 | 23 | 2.34 | 20 | 4.15 | 50 |
| N443631 | | <0.5 | 7.20 | 5 | 2050 | 1.6 | <2 | 1.21 | <0.5 | 8 | 42 | 13 | 2.09 | 20 | 4.46 | 30 |
| N443632 | | <0.5 | 7.46 | <5 | 2080 | 1.7 | <2 | 1.46 | <0.5 | 9 | 43 | 14 | 2.41 | 20 | 4.22 | 40 |
| N443633 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443634 | | <0.5 | 7.91 | <5 | 2960 | 1.2 | <2 | 1.00 | <0.5 | 8 | 38 | 13 | 2.22 | 20 | 5.40 | 30 |
| N443635 | | <0.5 | 7.58 | <5 | 2170 | 1.7 | <2 | 1.51 | <0.5 | 6 | 36 | 33 | 2.34 | 20 | 4.48 | 50 |
| N443636 | | <0.5 | 7.80 | <5 | 2340 | 1.4 | <2 | 1.50 | <0.5 | 9 | 46 | 64 | 3.05 | 20 | 4.22 | 40 |
| N443637 | | <0.5 | 7.68 | <5 | 2170 | 1.3 | <2 | 0.83 | <0.5 | 5 | 29 | 36 | 1.82 | 20 | 4.39 | 30 |
| N443638 | | <0.5 | 7.63 | <5 | 2150 | 1.8 | <2 | 1.33 | <0.5 | 7 | 40 | 28 | 2.29 | 20 | 4.15 | 40 |
| N443639 | | <0.5 | 8.05 | <5 | 2530 | 1.5 | <2 | 1.05 | <0.5 | 6 | 31 | 4 | 2.02 | 20 | 4.56 | 20 |
| N443640 | | <0.5 | 8.37 | <5 | 1930 | 2.8 | <2 | 1.35 | <0.5 | 7 | 49 | 85 | 2.42 | 20 | 4.75 | 50 |
| N443641 | | <0.5 | 8.18 | <5 | 1940 | 2.2 | <2 | 1.25 | <0.5 | 7 | 35 | 25 | 2.28 | 20 | 4.72 | 40 |
| N443642 | | <0.5 | 8.05 | <5 | 2200 | 2.6 | <2 | 2.01 | <0.5 | 10 | 60 | 69 | 3.16 | 20 | 4.29 | 60 |
| N443643 | | <0.5 | 7.92 | <5 | 2020 | 3.0 | <2 | 1.33 | <0.5 | 8 | 39 | 47 | 2.76 | 20 | 4.83 | 50 |
| N443644 | | <0.5 | 8.10 | <5 | 2140 | 2.7 | <2 | 1.71 | <0.5 | 9 | 42 | 41 | 2.94 | 20 | 4.85 | 60 |
| N443645 | | <0.5 | 7.88 | <5 | 2520 | 2.3 | <2 | 1.69 | <0.5 | 8 | 41 | 92 | 2.94 | 20 | 4.68 | 50 |
| N443646 | | <0.5 | 8.13 | <5 | 2190 | 2.3 | <2 | 1.65 | <0.5 | 9 | 40 | 30 | 2.90 | 20 | 4.71 | 50 |
| N443647 | | <0.5 | 8.08 | <5 | 2090 | 1.9 | <2 | 1.59 | <0.5 | 9 | 41 | 48 | 3.11 | 20 | 4.74 | 60 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042673

| 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 |
| I279839 | | 1.97 | 625 | <1 | 2.91 | 93 | 700 | 10 | 0.12 | <5 | 17 | 397 | <20 | 0.38 | <10 | <10 |
| I279840 | | 1.58 | 648 | <1 | 2.94 | 77 | 650 | 9 | 0.12 | <5 | 15 | 361 | <20 | 0.31 | 10 | <10 |
| I279841 | | 1.89 | 804 | <1 | 2.80 | 88 | 780 | 2 | 0.14 | <5 | 17 | 705 | <20 | 0.35 | <10 | <10 |
| I279842 | | 0.79 | 1145 | <1 | 2.97 | 17 | 3000 | 34 | 0.26 | <5 | 6 | 672 | 20 | 0.34 | 10 | <10 |
| I279843 | | 1.10 | 727 | <1 | 2.15 | 23 | 720 | 3 | <0.01 | <5 | 14 | 161 | <20 | 0.33 | 10 | <10 |
| I279844 | | 1.11 | 232 | 1 | 4.62 | 13 | 970 | 7 | 0.01 | <5 | 8 | 494 | <20 | 0.18 | 10 | <10 |
| I279921 | | 0.89 | 484 | <1 | 4.66 | 18 | 860 | 20 | 0.01 | <5 | 5 | 1700 | <20 | 0.19 | <10 | <10 |
| I279922 | | 0.60 | 413 | <1 | 4.54 | 13 | 600 | 21 | <0.01 | <5 | 3 | 1305 | <20 | 0.22 | 10 | <10 |
| I279923 | | 0.73 | 494 | 1 | 4.12 | 12 | 720 | 23 | 0.01 | <5 | 4 | 2640 | <20 | 0.15 | 10 | <10 |
| N459011 | | 0.23 | 296 | <1 | 3.01 | 11 | 460 | 20 | 0.05 | <5 | 3 | 290 | <20 | 0.10 | 10 | <10 |
| N459012 | | 1.27 | 335 | 12 | 3.45 | 36 | 720 | 15 | 0.14 | <5 | 6 | 404 | <20 | 0.28 | <10 | <10 |
| N459013 | | 1.44 | 439 | <1 | 4.13 | 52 | 660 | 8 | 0.30 | <5 | 7 | 419 | <20 | 0.17 | 10 | <10 |
| N459014 | | 10.05 | 954 | 1 | 0.02 | 885 | 30 | 8 | 0.06 | 9 | 15 | 522 | <20 | 0.08 | <10 | <10 |
| N443621 | | 0.66 | 424 | <1 | 4.55 | 16 | 670 | 27 | <0.01 | <5 | 3 | 1320 | <20 | 0.16 | <10 | <10 |
| N443622 | | 0.93 | 477 | <1 | 4.34 | 23 | 910 | 25 | <0.01 | <5 | 5 | 2040 | <20 | 0.16 | 10 | <10 |
| N443623 | | 1.09 | 680 | <1 | 4.22 | 24 | 1090 | 26 | <0.01 | <5 | 6 | 1495 | <20 | 0.24 | 10 | <10 |
| N443624 | | 1.39 | 796 | <1 | 4.08 | 50 | 1200 | 24 | <0.01 | <5 | 6 | 1495 | <20 | 0.39 | <10 | <10 |
| N443625 | | 1.01 | 498 | 1 | 4.45 | 26 | 1120 | 24 | 0.01 | <5 | 5 | 1825 | <20 | 0.22 | 10 | <10 |
| N443626 | | 0.69 | 585 | <1 | 4.90 | 17 | 670 | 21 | <0.01 | <5 | 4 | 1215 | <20 | 0.18 | 10 | <10 |
| N443627 | | 0.53 | 384 | <1 | 4.50 | 13 | 550 | 19 | <0.01 | <5 | 3 | 1145 | <20 | 0.16 | 10 | <10 |
| N443628 | | 1.65 | 777 | <1 | 4.25 | 33 | 980 | 35 | 0.01 | <5 | 9 | 1800 | <20 | 0.23 | <10 | <10 |
| N443629 | | 0.64 | 375 | <1 | 4.63 | 15 | 650 | 24 | 0.01 | <5 | 4 | 1340 | <20 | 0.19 | 10 | <10 |
| N443630 | | 0.85 | 599 | <1 | 4.41 | 19 | 860 | 29 | <0.01 | <5 | 5 | 1435 | <20 | 0.24 | <10 | <10 |
| N443631 | | 0.74 | 553 | <1 | 4.33 | 16 | 780 | 26 | 0.01 | <5 | 4 | 1315 | <20 | 0.21 | <10 | <10 |
| N443632 | | 0.86 | 599 | 1 | 4.40 | 19 | 880 | 24 | <0.01 | <5 | 5 | 1440 | <20 | 0.19 | 10 | <10 |
| N443633 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443634 | | 1.03 | 445 | <1 | 3.57 | 20 | 1030 | 26 | 0.01 | <5 | 5 | 1415 | <20 | 0.17 | <10 | <10 |
| N443635 | | 0.82 | 532 | <1 | 4.24 | 15 | 890 | 27 | <0.01 | <5 | 5 | 1670 | <20 | 0.26 | <10 | <10 |
| N443636 | | 0.97 | 665 | <1 | 3.92 | 17 | 1200 | 22 | 0.01 | <5 | 6 | 1515 | <20 | 0.21 | <10 | <10 |
| N443637 | | 0.49 | 364 | <1 | 4.31 | 12 | 670 | 24 | <0.01 | <5 | 3 | 1350 | <20 | 0.15 | <10 | <10 |
| N443638 | | 0.74 | 519 | <1 | 4.18 | 15 | 870 | 31 | <0.01 | <5 | 4 | 1520 | <20 | 0.22 | <10 | <10 |
| N443639 | | 0.62 | 372 | <1 | 4.43 | 13 | 630 | 18 | <0.01 | 7 | 4 | 1390 | <20 | 0.16 | <10 | <10 |
| N443640 | | 0.87 | 559 | <1 | 4.68 | 20 | 830 | 25 | 0.01 | <5 | 4 | 1320 | <20 | 0.24 | <10 | <10 |
| N443641 | | 0.72 | 494 | <1 | 4.60 | 13 | 670 | 26 | <0.01 | <5 | 4 | 1295 | <20 | 0.23 | <10 | <10 |
| N443642 | | 1.15 | 686 | <1 | 4.38 | 21 | 1010 | 31 | <0.01 | <5 | 7 | 1625 | <20 | 0.32 | <10 | <10 |
| N443643 | | 0.90 | 536 | <1 | 4.14 | 15 | 950 | 25 | 0.01 | <5 | 5 | 1190 | 20 | 0.24 | <10 | <10 |
| N443644 | | 0.93 | 692 | <1 | 4.22 | 16 | 1070 | 27 | <0.01 | <5 | 6 | 1455 | 20 | 0.33 | <10 | <10 |
| N443645 | | 0.92 | 666 | <1 | 4.22 | 14 | 1100 | 24 | 0.01 | <5 | 6 | 1640 | <20 | 0.23 | <10 | <10 |
| N443646 | | 0.95 | 689 | <1 | 4.34 | 15 | 1050 | 25 | <0.01 | <5 | 6 | 1500 | <20 | 0.28 | <10 | <10 |
| N443647 | | 0.98 | 660 | <1 | 4.12 | 16 | 1120 | 20 | <0.01 | <5 | 6 | 1395 | <20 | 0.33 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042673

| 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 |
|---|---|---|---|---|
| I279839 | | 128 | <10 | 86 |
| I279840 | | 116 | <10 | 74 |
| I279841 | | 127 | <10 | 86 |
| I279842 | | 129 | 10 | 108 |
| I279843 | | 113 | <10 | 101 |
| I279844 | | 70 | <10 | 51 |
| I279921 | | 61 | <10 | 48 |
| I279922 | | 55 | <10 | 35 |
| I279923 | | 62 | <10 | 48 |
| N459011 | | 29 | <10 | 43 |
| N459012 | | 64 | <10 | 58 |
| N459013 | | 65 | <10 | 50 |
| N459014 | | 79 | <10 | 38 |
| N443621 | | 49 | <10 | 42 |
| N443622 | | 62 | <10 | 54 |
| N443623 | | 80 | <10 | 74 |
| N443624 | | 70 | <10 | 88 |
| N443625 | | 72 | <10 | 70 |
| N443626 | | 50 | <10 | 49 |
| N443627 | | 44 | <10 | 39 |
| N443628 | | 85 | <10 | 80 |
| N443629 | | 49 | <10 | 40 |
| N443630 | | 64 | <10 | 67 |
| N443631 | | 56 | <10 | 58 |
| N443632 | | 69 | <10 | 63 |
| N443633 | | NSS | NSS | NSS |
| N443634 | | 61 | <10 | 50 |
| N443635 | | 63 | <10 | 63 |
| N443636 | | 85 | <10 | 73 |
| N443637 | | 44 | <10 | 45 |
| N443638 | | 62 | <10 | 57 |
| N443639 | | 52 | <10 | 46 |
| N443640 | | 64 | <10 | 69 |
| N443641 | | 57 | <10 | 59 |
| N443642 | | 91 | <10 | 88 |
| N443643 | | 73 | <10 | 62 |
| N443644 | | 82 | <10 | 83 |
| N443645 | | 78 | <10 | 85 |
| N443646 | | 78 | <10 | 76 |
| N443647 | | 86 | <10 | 76 |

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| 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 |
| N443648 | | <0.5 | 7.94 | <5 | 2510 | 1.9 | <2 | 2.23 | <0.5 | 11 | 56 | 40 | 3.65 | 20 | 4.61 | 50 |
| N443649 | | <0.5 | 7.63 | <5 | 3080 | 1.8 | <2 | 2.78 | <0.5 | 13 | 75 | 34 | 3.84 | 20 | 4.66 | 50 |
| N443650 | | <0.5 | 7.89 | <5 | 2990 | 1.6 | <2 | 2.61 | <0.5 | 13 | 63 | 37 | 3.94 | 20 | 4.29 | 60 |
| N443651 | | <0.5 | 7.47 | <5 | 3240 | 1.4 | 3 | 2.64 | <0.5 | 15 | 80 | 42 | 3.84 | 20 | 4.40 | 50 |
| N443652 | | <0.5 | 6.69 | <5 | 450 | 0.5 | <2 | 5.93 | <0.5 | 50 | 388 | 105 | 7.51 | 10 | 1.44 | 10 |
| N443653 | | <0.5 | 6.84 | <5 | 320 | 0.5 | <2 | 6.31 | <0.5 | 52 | 369 | 110 | 7.98 | 20 | 1.69 | 10 |
| N443654 | | <0.5 | 6.76 | <5 | 1590 | 3.2 | <2 | 4.46 | <0.5 | 28 | 4 | 127 | 7.98 | 20 | 2.02 | 90 |
| L174248 | | <0.5 | 6.99 | 5 | 150 | 0.5 | <2 | 4.28 | <0.5 | 42 | 109 | 87 | 8.81 | 20 | 0.43 | <10 |
| L174249 | | <0.5 | 7.26 | <5 | 50 | <0.5 | <2 | 6.16 | 0.5 | 46 | 158 | 86 | 10.35 | 20 | 0.06 | <10 |
| L174250 | | <0.5 | 8.79 | 6 | 470 | 0.9 | <2 | 2.03 | <0.5 | 38 | 47 | 18 | 7.24 | 20 | 1.84 | 10 |
| L174551 | | <0.5 | 7.66 | 8 | 70 | <0.5 | <2 | 3.60 | <0.5 | 45 | 230 | 112 | 6.47 | 20 | 0.03 | <10 |
| L174552 | | <0.5 | 6.41 | 8 | 40 | 0.7 | 2 | 3.06 | <0.5 | 33 | 102 | 94 | 7.53 | 20 | 0.13 | <10 |
| L174553 | | <0.5 | 7.11 | 9 | 10 | <0.5 | 5 | 5.06 | <0.5 | 44 | 213 | 119 | 8.92 | 20 | 0.02 | <10 |
| L174555 | | <0.5 | 6.28 | 8 | 80 | 0.5 | <2 | 6.22 | <0.5 | 42 | 132 | 107 | 9.83 | 20 | 0.26 | <10 |
| L174556 | | <0.5 | 6.38 | 6 | 30 | <0.5 | <2 | 4.78 | <0.5 | 34 | 14 | 104 | 9.25 | 20 | 0.05 | <10 |
| L174557 | | <0.5 | 6.80 | 9 | 100 | 1.0 | 6 | 4.04 | <0.5 | 47 | 148 | 96 | 10.65 | 20 | 0.29 | <10 |
| L174558 | | <0.5 | 5.98 | 15 | 170 | 1.2 | 2 | 7.38 | <0.5 | 41 | 111 | 28 | 9.41 | 20 | 0.26 | <10 |
| L174559 | | <0.5 | 7.47 | <5 | 220 | <0.5 | 3 | 6.49 | <0.5 | 29 | 109 | 68 | 5.66 | 10 | 0.56 | 10 |

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| 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 |
| N443648 | | 1.26 | 802 | <1 | 4.20 | 21 | 1370 | 26 | <0.01 | <5 | 8 | 1780 | <20 | 0.28 | <10 | <10 |
| N443649 | | 1.61 | 823 | <1 | 3.69 | 26 | 1750 | 26 | <0.01 | 5 | 10 | 2210 | <20 | 0.29 | <10 | <10 |
| N443650 | | 1.49 | 826 | <1 | 3.87 | 25 | 1650 | 21 | <0.01 | <5 | 10 | 2110 | <20 | 0.33 | <10 | <10 |
| N443651 | | 1.72 | 874 | <1 | 3.31 | 31 | 1890 | 19 | 0.01 | <5 | 10 | 2290 | <20 | 0.28 | <10 | <10 |
| N443652 | | 5.00 | 1335 | <1 | 1.83 | 153 | 340 | <2 | 0.03 | <5 | 33 | 322 | <20 | 0.45 | <10 | <10 |
| N443653 | | 5.08 | 1455 | <1 | 1.45 | 157 | 320 | 6 | 0.03 | 7 | 35 | 371 | <20 | 0.47 | <10 | <10 |
| N443654 | | 1.82 | 1310 | <1 | 3.96 | 17 | 1190 | 16 | 0.01 | <5 | 45 | 1840 | 20 | 1.22 | <10 | <10 |
| L174248 | | 3.73 | 1355 | <1 | 2.32 | 68 | 530 | <2 | 0.01 | <5 | 39 | 105 | <20 | 0.77 | <10 | <10 |
| L174249 | | 2.90 | 1795 | <1 | 1.51 | 80 | 1220 | 2 | 0.06 | <5 | 48 | 208 | <20 | 1.19 | <10 | <10 |
| L174250 | | 0.54 | 1360 | <1 | 1.15 | 33 | 1010 | <2 | 0.22 | <5 | 20 | 221 | <20 | 0.31 | <10 | <10 |
| L174551 | | 3.08 | 1390 | <1 | 3.94 | 96 | 370 | 7 | 0.05 | 7 | 41 | 306 | <20 | 0.67 | <10 | <10 |
| L174552 | | 2.98 | 1085 | <1 | 2.78 | 42 | 330 | 3 | 0.01 | <5 | 37 | 85 | <20 | 0.58 | <10 | <10 |
| L174553 | | 3.45 | 1480 | <1 | 0.91 | 109 | 430 | 3 | 0.01 | 5 | 41 | 239 | <20 | 0.84 | <10 | <10 |
| L174555 | | 3.50 | 1550 | <1 | 1.25 | 88 | 620 | 9 | 0.09 | <5 | 35 | 227 | <20 | 0.99 | <10 | <10 |
| L174556 | | 2.89 | 1285 | <1 | 2.01 | 32 | 400 | 6 | 0.11 | <5 | 39 | 155 | <20 | 0.79 | <10 | <10 |
| L174557 | | 3.42 | 1225 | 1 | 2.54 | 92 | 670 | 5 | 0.04 | 5 | 42 | 436 | <20 | 1.06 | <10 | <10 |
| L174558 | | 3.06 | 1870 | 3 | 2.68 | 78 | 570 | 6 | <0.01 | <5 | 34 | 717 | <20 | 0.88 | <10 | <10 |
| L174559 | | 1.03 | 1275 | <1 | 2.60 | 166 | 570 | <2 | 0.01 | 5 | 26 | 150 | <20 | 0.56 | <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 SD14042673

| 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 |
|---|---|---|---|---|
| N443648 | | 100 | <10 | 100 |
| N443649 | | 99 | <10 | 94 |
| N443650 | | 108 | <10 | 98 |
| N443651 | | 105 | <10 | 99 |
| N443652 | | 225 | <10 | 85 |
| N443653 | | 233 | <10 | 106 |
| N443654 | | 311 | <10 | 121 |
| L174248 | | 346 | <10 | 118 |
| L174249 | | 388 | <10 | 90 |
| L174250 | | 143 | <10 | 195 |
| L174551 | | 308 | <10 | 74 |
| L174552 | | 294 | <10 | 76 |
| L174553 | | 366 | <10 | 90 |
| L174555 | | 394 | <10 | 95 |
| L174556 | | 377 | <10 | 113 |
| L174557 | | 408 | <10 | 123 |
| L174558 | | 345 | <10 | 112 |
| L174559 | | 190 | <10 | 67 |

***** 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 SD14042673

## 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