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: 28-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042824

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 122 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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459286 | | <0.5 | 7.99 | <5 | 2130 | 1.5 | <2 | 1.43 | <0.5 | 5 | 43 | 31 | 2.17 | 20 | 4.52 | 40 |
| N459287 | | <0.5 | 7.81 | <5 | 2100 | 1.7 | <2 | 1.77 | <0.5 | 6 | 54 | 25 | 2.58 | 20 | 4.28 | 40 |
| N459288 | | <0.5 | 8.10 | <5 | 2330 | 1.7 | <2 | 1.44 | <0.5 | 5 | 41 | 54 | 2.12 | 20 | 4.46 | 40 |
| N459289 | | <0.5 | 8.00 | <5 | 2240 | 1.4 | <2 | 1.44 | <0.5 | 5 | 41 | 19 | 2.12 | 20 | 4.34 | 30 |
| N459290 | | <0.5 | 8.18 | <5 | 2390 | 1.4 | <2 | 1.49 | <0.5 | 7 | 43 | 12 | 2.17 | 20 | 4.34 | 40 |
| N459291 | | <0.5 | 7.91 | <5 | 2930 | 1.3 | <2 | 1.79 | <0.5 | 7 | 52 | 27 | 2.46 | 20 | 4.06 | 30 |
| N459292 | | <0.5 | 8.03 | <5 | 1870 | 1.8 | 2 | 1.07 | <0.5 | 7 | 38 | 17 | 2.05 | 20 | 4.48 | 30 |
| N459293 | | <0.5 | 7.81 | <5 | 2220 | 1.7 | <2 | 1.74 | <0.5 | 8 | 54 | 17 | 2.57 | 20 | 4.14 | 40 |
| N459294 | | <0.5 | 8.04 | <5 | 2250 | 1.6 | <2 | 1.66 | <0.5 | 9 | 43 | 31 | 2.57 | 20 | 4.39 | 40 |
| N459295 | | <0.5 | 7.67 | <5 | 2260 | 2.0 | <2 | 1.69 | <0.5 | 8 | 46 | 29 | 2.70 | 20 | 4.21 | 40 |
| N459296 | | <0.5 | 7.72 | <5 | 2300 | 2.3 | <2 | 1.88 | <0.5 | 10 | 49 | 48 | 2.92 | 20 | 4.35 | 50 |
| N459297 | | <0.5 | 8.72 | <5 | 1490 | 0.9 | 3 | 0.51 | <0.5 | 1 | 35 | 1 | 2.24 | 20 | 5.27 | 40 |
| N459298 | | <0.5 | 8.03 | <5 | 1670 | 1.7 | 3 | 0.98 | <0.5 | 7 | 49 | 19 | 2.55 | 20 | 4.36 | 30 |
| N459299 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459300 | | <0.5 | 8.06 | <5 | 1670 | 2.3 | <2 | 1.04 | <0.5 | 7 | 40 | 16 | 2.26 | 20 | 4.23 | 50 |
| N459301 | | <0.5 | 8.30 | <5 | 1580 | 1.2 | 4 | 0.64 | <0.5 | 5 | 28 | 33 | 2.30 | 20 | 4.69 | 50 |
| N459302 | | <0.5 | 8.41 | <5 | 920 | 1.3 | <2 | 0.45 | <0.5 | 6 | 43 | 11 | 2.36 | 20 | 2.22 | 60 |
| N459303 | | <0.5 | 8.27 | <5 | 220 | 5.3 | 2 | 1.30 | <0.5 | 10 | 48 | 91 | 3.04 | 30 | 0.48 | 80 |
| N459304 | | <0.5 | 8.58 | 5 | 3710 | 1.1 | 3 | 1.36 | <0.5 | 5 | 39 | 16 | 1.21 | 10 | 3.78 | 20 |
| N459305 | | <0.5 | 5.94 | <5 | 2290 | 1.5 | 5 | 5.92 | <0.5 | 45 | 396 | 144 | 6.87 | 20 | 3.19 | 50 |
| N459306 | | <0.5 | 8.19 | <5 | 1790 | 3.6 | 2 | 1.51 | <0.5 | 11 | 65 | 26 | 3.24 | 20 | 4.22 | 80 |
| N459307 | | <0.5 | 8.15 | <5 | 1170 | 1.5 | <2 | 1.99 | <0.5 | 7 | 48 | 14 | 2.59 | 20 | 2.45 | 30 |
| N459308 | | <0.5 | 8.07 | 11 | 1900 | 2.1 | 2 | 1.44 | <0.5 | 16 | 91 | 65 | 3.57 | 20 | 2.75 | 30 |
| N459309 | | <0.5 | 7.77 | <5 | 150 | 0.9 | 3 | 0.46 | <0.5 | 8 | 41 | 1 | 2.17 | 20 | 0.19 | 30 |
| N459310 | | <0.5 | 8.39 | <5 | 2060 | 0.7 | 2 | 0.84 | <0.5 | 4 | 15 | 5 | 1.74 | 10 | 4.37 | 40 |
| N438867 | | <0.5 | 6.95 | <5 | 30 | 0.5 | 2 | 8.02 | 0.7 | 32 | 101 | 63 | 8.46 | 20 | 0.03 | <10 |
| N438868 | | <0.5 | 7.56 | 5 | 20 | <0.5 | <2 | 5.36 | <0.5 | 47 | 226 | 115 | 8.27 | 20 | 0.01 | <10 |
| N438869 | | <0.5 | 7.19 | <5 | 50 | <0.5 | 4 | 6.16 | 0.5 | 40 | 119 | 97 | 8.89 | 20 | 0.08 | <10 |
| N438870 | | <0.5 | 7.30 | <5 | 10 | <0.5 | 3 | 6.61 | 0.5 | 45 | 191 | 121 | 8.74 | 20 | 0.02 | <10 |
| N438871 | | <0.5 | 7.06 | 14 | 40 | <0.5 | 3 | 6.05 | 0.6 | 46 | 128 | 78 | 8.85 | 20 | 0.01 | <10 |
| N438872 | | <0.5 | 6.67 | 10 | 90 | <0.5 | <2 | 5.55 | 0.6 | 47 | 40 | 88 | 9.42 | 20 | 0.20 | <10 |
| N438873 | | <0.5 | 8.05 | 15 | 40 | <0.5 | 6 | 6.96 | 0.6 | 44 | 229 | 121 | 9.35 | 20 | 0.05 | <10 |
| N438874 | | <0.5 | 7.05 | 5 | 60 | <0.5 | <2 | 5.79 | 0.7 | 44 | 170 | 97 | 8.01 | 20 | 0.08 | <10 |
| N438875 | | <0.5 | 6.83 | <5 | 40 | <0.5 | <2 | 6.47 | 0.5 | 42 | 177 | 103 | 7.64 | 20 | 0.07 | <10 |
| N438876 | | <0.5 | 5.95 | 9 | 30 | 0.7 | <2 | 4.26 | 0.6 | 27 | 8 | 18 | 11.05 | 20 | 0.02 | <10 |
| N438877 | | <0.5 | 7.14 | <5 | 50 | <0.5 | <2 | 3.98 | <0.5 | 37 | 190 | 76 | 6.00 | 10 | 0.13 | <10 |
| N438878 | | <0.5 | 7.11 | <5 | 40 | <0.5 | <2 | 5.57 | 0.6 | 45 | 236 | 142 | 8.19 | 20 | 0.07 | <10 |
| N438879 | | <0.5 | 6.10 | 9 | 20 | <0.5 | <2 | 6.94 | 0.6 | 51 | 21 | 173 | 9.41 | 20 | 0.01 | <10 |
| N438880 | | <0.5 | 7.53 | 9 | 40 | <0.5 | <2 | 6.19 | 0.5 | 46 | 283 | 124 | 8.21 | 10 | 0.06 | <10 |
| N438881 | | <0.5 | 6.92 | 7 | 70 | <0.5 | <2 | 4.58 | 0.6 | 43 | 495 | 125 | 6.93 | 10 | 0.09 | <10 |

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**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
| N459286 | | 0.74 | 482 | 2 | 4.53 | 19 | 820 | 26 | 0.01 | <5 | 4 | 1500 | <20 | 0.18 | <10 | <10 |
| N459287 | | 0.99 | 606 | 1 | 4.30 | 24 | 1000 | 27 | <0.01 | <5 | 6 | 1480 | <20 | 0.22 | <10 | <10 |
| N459288 | | 0.77 | 506 | 1 | 4.52 | 20 | 860 | 24 | 0.01 | <5 | 4 | 1605 | <20 | 0.18 | <10 | <10 |
| N459289 | | 0.78 | 509 | 1 | 4.56 | 20 | 820 | 20 | <0.01 | <5 | 5 | 1620 | <20 | 0.18 | <10 | <10 |
| N459290 | | 0.80 | 502 | 1 | 4.64 | 21 | 880 | 24 | <0.01 | <5 | 5 | 1770 | <20 | 0.19 | <10 | <10 |
| N459291 | | 1.03 | 691 | 1 | 4.24 | 23 | 1000 | 27 | <0.01 | <5 | 6 | 2180 | <20 | 0.19 | <10 | <10 |
| N459292 | | 0.70 | 530 | <1 | 4.71 | 15 | 650 | 23 | <0.01 | <5 | 4 | 1145 | <20 | 0.18 | <10 | <10 |
| N459293 | | 0.97 | 596 | <1 | 4.43 | 21 | 970 | 26 | <0.01 | <5 | 6 | 1655 | <20 | 0.21 | <10 | <10 |
| N459294 | | 0.88 | 693 | <1 | 4.50 | 20 | 1010 | 19 | 0.01 | <5 | 5 | 1600 | <20 | 0.20 | <10 | <10 |
| N459295 | | 0.95 | 634 | <1 | 4.38 | 16 | 1110 | 27 | 0.01 | <5 | 6 | 1630 | <20 | 0.17 | <10 | <10 |
| N459296 | | 1.03 | 652 | <1 | 4.19 | 17 | 1180 | 31 | 0.01 | <5 | 6 | 1705 | <20 | 0.24 | <10 | <10 |
| N459297 | | 0.14 | 330 | <1 | 4.57 | 8 | 620 | 10 | <0.01 | <5 | 3 | 661 | <20 | 0.14 | <10 | <10 |
| N459298 | | 0.64 | 518 | <1 | 4.49 | 20 | 720 | 23 | 0.01 | <5 | 4 | 1035 | <20 | 0.15 | <10 | <10 |
| N459299 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459300 | | 0.60 | 480 | <1 | 4.65 | 15 | 710 | 29 | 0.01 | <5 | 4 | 1045 | <20 | 0.20 | <10 | <10 |
| N459301 | | 0.53 | 293 | <1 | 4.64 | 12 | 540 | 18 | 0.01 | <5 | 3 | 1015 | <20 | 0.32 | <10 | <10 |
| N459302 | | 1.05 | 214 | <1 | 5.60 | 17 | 760 | 10 | <0.01 | <5 | 4 | 989 | <20 | 0.27 | <10 | <10 |
| N459303 | | 1.10 | 344 | <1 | 6.47 | 18 | 1010 | 5 | 0.51 | <5 | 6 | 520 | 50 | 0.28 | <10 | <10 |
| N459304 | | 0.77 | 257 | <1 | 4.78 | 17 | 680 | 21 | 0.02 | <5 | 3 | 2640 | <20 | 0.08 | <10 | <10 |
| N459305 | | 6.04 | 1400 | <1 | 2.24 | 157 | 3210 | 6 | 0.15 | <5 | 27 | 1455 | <20 | 0.58 | <10 | <10 |
| N459306 | | 1.01 | 811 | <1 | 4.63 | 24 | 1210 | 30 | 0.01 | <5 | 5 | 1210 | <20 | 0.30 | <10 | <10 |
| N459307 | | 0.82 | 434 | <1 | 5.47 | 20 | 880 | 16 | <0.01 | <5 | 6 | 1105 | <20 | 0.22 | <10 | <10 |
| N459308 | | 0.87 | 637 | 1 | 3.65 | 36 | 910 | 11 | 0.15 | <5 | 11 | 917 | <20 | 0.16 | <10 | <10 |
| N459309 | | 1.79 | 275 | <1 | 6.23 | 19 | 870 | 7 | <0.01 | <5 | 5 | 1000 | <20 | 0.20 | <10 | <10 |
| N459310 | | 0.29 | 223 | <1 | 4.78 | 10 | 340 | 20 | 0.01 | <5 | 2 | 1400 | <20 | 0.37 | <10 | <10 |
| N438867 | | 3.11 | 1370 | <1 | 0.75 | 61 | 380 | <2 | 0.06 | <5 | 36 | 382 | <20 | 0.69 | <10 | <10 |
| N438868 | | 4.69 | 1250 | <1 | 1.03 | 128 | 220 | <2 | 0.08 | <5 | 40 | 362 | <20 | 0.55 | <10 | <10 |
| N438869 | | 2.45 | 1605 | <1 | 1.67 | 76 | 490 | <2 | 0.09 | <5 | 41 | 119 | <20 | 0.87 | <10 | <10 |
| N438870 | | 3.41 | 1610 | <1 | 0.88 | 109 | 320 | <2 | 0.08 | <5 | 42 | 139 | <20 | 0.69 | <10 | <10 |
| N438871 | | 3.96 | 1530 | <1 | 2.16 | 65 | 480 | <2 | 0.07 | <5 | 41 | 280 | <20 | 0.60 | <10 | <10 |
| N438872 | | 2.04 | 1995 | <1 | 2.32 | 59 | 1390 | <2 | 0.13 | <5 | 50 | 223 | <20 | 1.37 | <10 | <10 |
| N438873 | | 2.31 | 1685 | <1 | 0.93 | 110 | 490 | <2 | 0.03 | <5 | 44 | 206 | <20 | 0.94 | <10 | <10 |
| N438874 | | 4.30 | 1565 | <1 | 2.22 | 94 | 380 | <2 | 0.11 | <5 | 37 | 105 | <20 | 0.69 | <10 | <10 |
| N438875 | | 3.70 | 1440 | <1 | 1.52 | 95 | 320 | <2 | 0.11 | <5 | 36 | 113 | <20 | 0.65 | <10 | <10 |
| N438876 | | 2.10 | 2130 | <1 | 1.50 | 7 | 1530 | <2 | 0.14 | <5 | 40 | 188 | <20 | 1.58 | <10 | <10 |
| N438877 | | 3.54 | 1540 | <1 | 2.79 | 73 | 180 | <2 | 0.01 | <5 | 38 | 49 | <20 | 0.46 | <10 | <10 |
| N438878 | | 3.91 | 1235 | <1 | 1.46 | 91 | 230 | <2 | 0.20 | <5 | 44 | 137 | <20 | 0.56 | <10 | <10 |
| N438879 | | 2.65 | 1230 | <1 | 0.92 | 37 | 360 | <2 | 0.22 | <5 | 46 | 160 | <20 | 0.86 | <10 | <10 |
| N438880 | | 4.83 | 1355 | <1 | 2.27 | 143 | 220 | <2 | 0.06 | <5 | 37 | 134 | <20 | 0.55 | <10 | <10 |
| N438881 | | 5.21 | 1340 | <1 | 1.92 | 108 | 180 | 4 | 0.04 | <5 | 35 | 115 | <20 | 0.45 | <10 | <10 |

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**Finalized Date: 28-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|
| N459286 | | 55 | <10 | 57 |
| N459287 | | 68 | <10 | 68 |
| N459288 | | 55 | <10 | 56 |
| N459289 | | 55 | <10 | 54 |
| N459290 | | 57 | <10 | 54 |
| N459291 | | 69 | <10 | 54 |
| N459292 | | 53 | <10 | 49 |
| N459293 | | 66 | <10 | 71 |
| N459294 | | 65 | <10 | 70 |
| N459295 | | 70 | <10 | 78 |
| N459296 | | 78 | <10 | 83 |
| N459297 | | 65 | <10 | 5 |
| N459298 | | 65 | <10 | 71 |
| N459299 | | NSS | NSS | NSS |
| N459300 | | 61 | <10 | 66 |
| N459301 | | 69 | <10 | 48 |
| N459302 | | 62 | <10 | 20 |
| N459303 | | 90 | <10 | 21 |
| N459304 | | 28 | <10 | 25 |
| N459305 | | 204 | <10 | 163 |
| N459306 | | 79 | <10 | 112 |
| N459307 | | 70 | <10 | 40 |
| N459308 | | 132 | <10 | 79 |
| N459309 | | 57 | <10 | 59 |
| N459310 | | 55 | <10 | 27 |
| N438867 | | 324 | <10 | 79 |
| N438868 | | 300 | <10 | 80 |
| N438869 | | 362 | <10 | 84 |
| N438870 | | 337 | <10 | 93 |
| N438871 | | 256 | <10 | 105 |
| N438872 | | 461 | <10 | 112 |
| N438873 | | 391 | <10 | 81 |
| N438874 | | 316 | <10 | 85 |
| N438875 | | 300 | <10 | 81 |
| N438876 | | 253 | <10 | 122 |
| N438877 | | 280 | <10 | 88 |
| N438878 | | 310 | <10 | 79 |
| N438879 | | 450 | <10 | 74 |
| N438880 | | 306 | <10 | 79 |
| N438881 | | 256 | <10 | 84 |

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# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N438882 | | <0.5 | 6.82 | 9 | 80 | <0.5 | 4 | 5.90 | <0.5 | 49 | 85 | 61 | 8.89 | 20 | 0.12 | <10 |
| N438883 | | <0.5 | 6.57 | 5 | 140 | 0.5 | 5 | 3.52 | 0.5 | 37 | 20 | 70 | 10.40 | 20 | 0.25 | 10 |
| N438884 | | <0.5 | 6.99 | <5 | 80 | <0.5 | <2 | 7.02 | <0.5 | 48 | 211 | 89 | 7.33 | 20 | 0.20 | <10 |
| N438885 | | <0.5 | 6.63 | <5 | 30 | 0.6 | <2 | 4.48 | <0.5 | 39 | 171 | 68 | 8.68 | 20 | 0.03 | <10 |
| N438886 | | <0.5 | 6.59 | <5 | 70 | <0.5 | <2 | 7.44 | <0.5 | 43 | 105 | 103 | 10.70 | 20 | 0.15 | <10 |
| N438887 | | <0.5 | 5.89 | <5 | 200 | 0.6 | <2 | 2.86 | <0.5 | 7 | 24 | 28 | 3.45 | 10 | 0.62 | 10 |
| N438888 | | <0.5 | 7.37 | <5 | 480 | 0.8 | <2 | 3.53 | <0.5 | 19 | 44 | 189 | 4.66 | 20 | 1.43 | <10 |
| N438889 | | <0.5 | 8.53 | <5 | 140 | 0.6 | <2 | 6.52 | <0.5 | 53 | 219 | 127 | 7.32 | 20 | 0.20 | <10 |
| N438890 | | <0.5 | 7.48 | <5 | 50 | <0.5 | <2 | 6.99 | <0.5 | 48 | 245 | 115 | 8.05 | 10 | 0.05 | <10 |
| N438891 | | <0.5 | 6.38 | <5 | 60 | <0.5 | <2 | 4.80 | <0.5 | 40 | 69 | 119 | 8.38 | 20 | 0.05 | <10 |
| N438892 | | <0.5 | 6.89 | 5 | 60 | <0.5 | <2 | 6.23 | <0.5 | 45 | 179 | 102 | 7.50 | 20 | 0.08 | <10 |
| N438893 | | <0.5 | 7.57 | 10 | 40 | <0.5 | <2 | 6.06 | <0.5 | 41 | 266 | 111 | 9.12 | 20 | 0.05 | <10 |
| N438894 | | <0.5 | 6.96 | 8 | 180 | <0.5 | <2 | 4.57 | <0.5 | 51 | 101 | 98 | 10.30 | 20 | 0.83 | <10 |
| N438895 | | <0.5 | 7.15 | 8 | 40 | <0.5 | <2 | 6.31 | 0.5 | 44 | 131 | 125 | 9.95 | 20 | 0.02 | <10 |
| N438896 | | <0.5 | 6.09 | 9 | 70 | <0.5 | <2 | 4.46 | 0.7 | 43 | 20 | 73 | 11.60 | 20 | 0.11 | <10 |
| N438897 | | <0.5 | 7.09 | <5 | 40 | <0.5 | <2 | 6.30 | <0.5 | 45 | 119 | 113 | 9.33 | 20 | 0.02 | <10 |
| N438898 | | <0.5 | 7.62 | <5 | 110 | <0.5 | <2 | 6.48 | <0.5 | 47 | 229 | 106 | 8.02 | 20 | 0.19 | <10 |
| N438899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N438900 | | <0.5 | 7.09 | <5 | 90 | <0.5 | <2 | 7.03 | <0.5 | 43 | 218 | 116 | 7.92 | 20 | 0.19 | <10 |
| N438901 | | <0.5 | 6.73 | <5 | 30 | <0.5 | 2 | 6.07 | <0.5 | 43 | 180 | 110 | 8.91 | 20 | 0.01 | <10 |
| N438902 | | <0.5 | 7.94 | 9 | 80 | <0.5 | <2 | 6.44 | <0.5 | 46 | 220 | 103 | 6.47 | 20 | 0.11 | <10 |
| N438903 | | <0.5 | 6.99 | 8 | 50 | 0.5 | <2 | 4.21 | 0.5 | 41 | 65 | 73 | 10.25 | 20 | 0.05 | <10 |
| N438904 | | <0.5 | 7.53 | <5 | 30 | <0.5 | <2 | 5.26 | <0.5 | 47 | 118 | 114 | 9.49 | 20 | 0.06 | <10 |
| N438905 | | <0.5 | 6.67 | <5 | 10 | <0.5 | <2 | 8.44 | <0.5 | 46 | 200 | 117 | 7.30 | 10 | 0.02 | <10 |
| N438906 | | <0.5 | 6.31 | 5 | 80 | <0.5 | <2 | 3.65 | <0.5 | 30 | 4 | 26 | 9.93 | 20 | 0.11 | <10 |
| N438907 | | <0.5 | 8.11 | 5 | 70 | <0.5 | <2 | 6.60 | <0.5 | 42 | 216 | 116 | 7.14 | 20 | 0.07 | <10 |
| N438908 | | <0.5 | 7.42 | 5 | 60 | <0.5 | <2 | 5.75 | <0.5 | 45 | 243 | 100 | 6.67 | 20 | 0.02 | <10 |
| N438909 | | <0.5 | 6.92 | 14 | 50 | 0.5 | <2 | 4.22 | <0.5 | 48 | 21 | 141 | 9.92 | 20 | 0.03 | <10 |
| N438910 | | <0.5 | 6.41 | 9 | 50 | 0.5 | <2 | 6.82 | 0.5 | 49 | 22 | 83 | 10.40 | 20 | 0.04 | <10 |
| N438911 | | <0.5 | 6.95 | <5 | 70 | <0.5 | <2 | 5.79 | <0.5 | 42 | 111 | 65 | 9.56 | 20 | 0.11 | <10 |
| N438912 | | <0.5 | 6.59 | <5 | 20 | <0.5 | <2 | 6.89 | 0.5 | 49 | 95 | 45 | 12.15 | 20 | 0.01 | <10 |
| N438913 | | <0.5 | 7.87 | <5 | 40 | <0.5 | <2 | 6.59 | <0.5 | 46 | 205 | 128 | 9.31 | 20 | 0.03 | <10 |
| N438914 | | <0.5 | 7.44 | 12 | 20 | <0.5 | <2 | 6.58 | <0.5 | 43 | 197 | 105 | 8.23 | 20 | 0.02 | <10 |
| N438915 | | <0.5 | 6.25 | 27 | 150 | <0.5 | <2 | 3.81 | <0.5 | 44 | 19 | 58 | 8.22 | 20 | 0.08 | <10 |
| N438916 | | <0.5 | 6.90 | 5 | 40 | <0.5 | <2 | 4.52 | <0.5 | 53 | 165 | 67 | 8.36 | 20 | 0.03 | <10 |
| N451817 | | <0.5 | 6.31 | 12 | 160 | 0.8 | <2 | 2.44 | <0.5 | 63 | 683 | 12 | 7.98 | 10 | 0.58 | 10 |
| N451818 | | <0.5 | 7.98 | 24 | 1130 | 1.7 | <2 | 0.82 | <0.5 | 19 | 171 | 44 | 3.65 | 20 | 2.36 | 20 |
| N451819 | | <0.5 | 9.21 | 31 | 950 | 1.9 | 2 | 0.35 | <0.5 | 26 | 183 | 64 | 4.68 | 20 | 2.44 | 30 |
| N451820 | | <0.5 | 8.14 | 79 | 680 | 1.6 | <2 | 0.94 | <0.5 | 22 | 156 | 53 | 4.53 | 20 | 2.25 | 20 |
| N451821 | | <0.5 | 6.41 | 9 | 1290 | 1.6 | <2 | 3.22 | 0.5 | 15 | 50 | 20 | 4.04 | 20 | 2.41 | 30 |

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

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

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


**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N438882 | | 2.72 | 1930 | <1 | 1.94 | 77 | 1270 | <2 | 0.15 | <5 | 46 | 179 | <20 | 1.63 | <10 | <10 |
| N438883 | | 2.01 | 1735 | <1 | 2.62 | 17 | 2080 | <2 | 0.45 | <5 | 39 | 38 | <20 | 1.40 | <10 | <10 |
| N438884 | | 5.86 | 1355 | <1 | 1.09 | 174 | 190 | <2 | 0.05 | <5 | 34 | 112 | <20 | 0.42 | <10 | <10 |
| N438885 | | 3.86 | 1620 | <1 | 2.20 | 91 | 400 | <2 | 0.08 | <5 | 36 | 70 | <20 | 0.69 | <10 | <10 |
| N438886 | | 2.80 | 1815 | <1 | 0.66 | 77 | 800 | <2 | 0.04 | 5 | 40 | 210 | <20 | 1.12 | <10 | <10 |
| N438887 | | 0.23 | 1215 | <1 | 2.35 | 9 | 590 | 2 | 0.01 | <5 | 7 | 169 | <20 | 0.23 | <10 | <10 |
| N438888 | | 0.79 | 1275 | <1 | 2.39 | 28 | 770 | <2 | 0.03 | 6 | 12 | 229 | <20 | 0.32 | <10 | <10 |
| N438889 | | 2.27 | 1685 | <1 | 2.18 | 117 | 320 | <2 | 0.13 | <5 | 45 | 129 | <20 | 0.75 | <10 | <10 |
| N438890 | | 5.19 | 1370 | <1 | 1.25 | 141 | 190 | <2 | 0.06 | <5 | 37 | 118 | <20 | 0.49 | <10 | <10 |
| N438891 | | 3.71 | 1395 | <1 | 1.72 | 49 | 300 | <2 | 0.11 | <5 | 39 | 97 | <20 | 0.63 | <10 | <10 |
| N438892 | | 4.03 | 1445 | <1 | 2.31 | 99 | 380 | <2 | 0.09 | <5 | 37 | 75 | <20 | 0.65 | <10 | <10 |
| N438893 | | 4.76 | 1355 | <1 | 0.11 | 83 | 240 | 2 | 0.06 | <5 | 41 | 154 | <20 | 0.51 | <10 | <10 |
| N438894 | | 4.36 | 1520 | <1 | 1.66 | 94 | 490 | <2 | 0.19 | <5 | 41 | 91 | <20 | 0.95 | <10 | <10 |
| N438895 | | 3.54 | 1465 | <1 | 1.39 | 70 | 510 | <2 | 0.11 | <5 | 44 | 141 | <20 | 0.96 | <10 | <10 |
| N438896 | | 2.60 | 2070 | <1 | 2.12 | 33 | 920 | <2 | 0.17 | <5 | 43 | 65 | <20 | 1.43 | <10 | <10 |
| N438897 | | 3.39 | 1565 | <1 | 1.51 | 76 | 470 | <2 | 0.10 | <5 | 41 | 148 | <20 | 0.89 | <10 | <10 |
| N438898 | | 4.97 | 1460 | <1 | 1.22 | 104 | 200 | <2 | 0.03 | <5 | 39 | 137 | <20 | 0.47 | <10 | <10 |
| N438899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N438900 | | 4.38 | 1495 | <1 | 1.31 | 63 | 230 | <2 | 0.06 | <5 | 45 | 115 | <20 | 0.54 | <10 | <10 |
| N438901 | | 3.40 | 1720 | <1 | 1.55 | 104 | 450 | <2 | 0.01 | <5 | 37 | 193 | <20 | 0.77 | <10 | <10 |
| N438902 | | 4.15 | 1215 | <1 | 2.00 | 102 | 180 | <2 | 0.02 | <5 | 40 | 247 | <20 | 0.45 | <10 | <10 |
| N438903 | | 3.24 | 1400 | <1 | 3.16 | 48 | 710 | <2 | 0.33 | <5 | 42 | 62 | <20 | 1.10 | <10 | <10 |
| N438904 | | 3.32 | 1430 | <1 | 1.82 | 70 | 450 | <2 | 0.17 | <5 | 40 | 110 | <20 | 0.86 | <10 | <10 |
| N438905 | | 4.02 | 1365 | <1 | 1.76 | 129 | 170 | <2 | 0.13 | 5 | 34 | 20 | <20 | 0.46 | <10 | <10 |
| N438906 | | 2.43 | 1850 | <1 | 2.20 | 6 | 1550 | <2 | 0.20 | <5 | 41 | 69 | <20 | 1.59 | <10 | <10 |
| N438907 | | 3.71 | 1305 | <1 | 2.29 | 88 | 190 | <2 | 0.06 | <5 | 41 | 206 | <20 | 0.47 | <10 | <10 |
| N438908 | | 4.36 | 1395 | <1 | 2.92 | 89 | 240 | <2 | 0.10 | 8 | 38 | 178 | <20 | 0.48 | <10 | <10 |
| N438909 | | 2.50 | 1865 | <1 | 2.44 | 45 | 680 | <2 | 0.19 | <5 | 46 | 64 | <20 | 1.40 | <10 | <10 |
| N438910 | | 1.52 | 1940 | <1 | 1.43 | 44 | 1150 | <2 | 0.27 | <5 | 45 | 344 | <20 | 1.59 | <10 | <10 |
| N438911 | | 3.80 | 1565 | <1 | 1.91 | 63 | 520 | 3 | <0.01 | <5 | 37 | 124 | <20 | 0.92 | <10 | <10 |
| N438912 | | 3.34 | 1915 | <1 | 0.54 | 44 | 630 | <2 | <0.01 | <5 | 53 | 195 | <20 | 1.29 | <10 | <10 |
| N438913 | | 4.15 | 1400 | <1 | 1.29 | 96 | 300 | <2 | 0.10 | <5 | 41 | 141 | <20 | 0.70 | <10 | <10 |
| N438914 | | 3.15 | 1365 | <1 | 1.52 | 107 | 300 | <2 | 0.05 | <5 | 39 | 183 | <20 | 0.70 | <10 | <10 |
| N438915 | | 2.58 | 1620 | <1 | 2.75 | 34 | 600 | <2 | 0.03 | <5 | 43 | 104 | <20 | 1.11 | <10 | <10 |
| N438916 | | 1.75 | 1365 | <1 | 3.27 | 80 | 1030 | <2 | 0.17 | <5 | 46 | 159 | <20 | 1.04 | <10 | <10 |
| N451817 | | 9.55 | 581 | <1 | 0.40 | 391 | 310 | 3 | 0.17 | <5 | 29 | 83 | <20 | 0.33 | <10 | <10 |
| N451818 | | 1.69 | 420 | <1 | 2.33 | 74 | 870 | 27 | 0.05 | 8 | 15 | 225 | <20 | 0.26 | <10 | <10 |
| N451819 | | 0.58 | 653 | 1 | 1.99 | 94 | 1130 | 16 | 0.01 | <5 | 18 | 362 | <20 | 0.16 | <10 | <10 |
| N451820 | | 0.45 | 666 | <1 | 1.07 | 86 | 830 | 17 | 0.01 | 6 | 16 | 361 | <20 | 0.09 | <10 | <10 |
| N451821 | | 1.17 | 1195 | <1 | 1.38 | 17 | 1310 | 12 | <0.01 | 8 | 13 | 415 | <20 | 0.25 | <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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|
| N438882 | | 466 | <10 | 125 |
| N438883 | | 191 | <10 | 138 |
| N438884 | | 235 | <10 | 70 |
| N438885 | | 306 | <10 | 87 |
| N438886 | | 393 | <10 | 104 |
| N438887 | | 52 | <10 | 48 |
| N438888 | | 106 | <10 | 112 |
| N438889 | | 367 | <10 | 75 |
| N438890 | | 274 | <10 | 76 |
| N438891 | | 333 | <10 | 96 |
| N438892 | | 303 | <10 | 77 |
| N438893 | | 287 | <10 | 85 |
| N438894 | | 379 | <10 | 111 |
| N438895 | | 393 | <10 | 107 |
| N438896 | | 450 | <10 | 137 |
| N438897 | | 372 | <10 | 97 |
| N438898 | | 265 | <10 | 76 |
| N438899 | | NSS | NSS | NSS |
| N438900 | | 306 | <10 | 66 |
| N438901 | | 327 | <10 | 83 |
| N438902 | | 278 | <10 | 70 |
| N438903 | | 383 | <10 | 78 |
| N438904 | | 362 | <10 | 102 |
| N438905 | | 256 | <10 | 73 |
| N438906 | | 244 | <10 | 140 |
| N438907 | | 277 | <10 | 75 |
| N438908 | | 266 | <10 | 87 |
| N438909 | | 536 | <10 | 173 |
| N438910 | | 496 | <10 | 101 |
| N438911 | | 354 | <10 | 104 |
| N438912 | | 522 | <10 | 140 |
| N438913 | | 339 | <10 | 108 |
| N438914 | | 327 | <10 | 87 |
| N438915 | | 426 | <10 | 100 |
| N438916 | | 352 | <10 | 83 |
| N451817 | | 198 | <10 | 91 |
| N451818 | | 113 | <10 | 62 |
| N451819 | | 138 | <10 | 100 |
| N451820 | | 111 | <10 | 163 |
| N451821 | | 114 | <10 | 110 |

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North Vancouver BC V7H 0A7
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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451822 | | <0.5 | 7.29 | 12 | 1000 | 1.6 | <2 | 4.73 | <0.5 | 34 | 632 | 81 | 5.40 | 20 | 2.02 | 20 |
| N451823 | | <0.5 | 7.35 | 121 | 890 | 1.6 | <2 | 2.60 | <0.5 | 27 | 209 | 68 | 5.14 | 20 | 1.95 | 20 |
| N451824 | | <0.5 | 9.70 | 72 | 780 | 1.6 | <2 | 0.14 | <0.5 | 17 | 160 | 37 | 4.14 | 20 | 2.38 | 30 |
| N451825 | | <0.5 | 9.52 | 121 | 1030 | 1.8 | 4 | 0.12 | <0.5 | 22 | 156 | 50 | 2.72 | 20 | 2.65 | 30 |
| N451826 | | <0.5 | 7.53 | 20 | 930 | 1.5 | <2 | 2.02 | <0.5 | 16 | 151 | 37 | 3.42 | 20 | 1.67 | 20 |
| N451827 | | <0.5 | 7.46 | 89 | 790 | 1.3 | <2 | 0.79 | <0.5 | 25 | 165 | 123 | 4.13 | 20 | 1.65 | 20 |
| N451828 | | <0.5 | 7.97 | 26 | 810 | 1.5 | <2 | 2.06 | <0.5 | 11 | 141 | 30 | 3.52 | 20 | 1.80 | 20 |
| N451829 | | <0.5 | 9.02 | 35 | 1170 | 1.9 | <2 | 0.83 | <0.5 | 29 | 252 | 85 | 4.45 | 20 | 2.50 | 30 |
| N451830 | | <0.5 | 6.79 | 66 | 600 | 1.3 | <2 | 2.38 | <0.5 | 17 | 147 | 46 | 4.31 | 20 | 1.84 | 20 |
| N451831 | | <0.5 | 8.75 | 46 | 950 | 1.8 | <2 | 0.53 | <0.5 | 21 | 273 | 34 | 4.14 | 20 | 2.28 | 30 |
| N451832 | | <0.5 | 7.16 | 53 | 240 | <0.5 | <2 | 1.96 | 0.5 | 7 | 35 | 8 | 1.99 | 20 | 0.46 | <10 |
| N451833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451834 | | <0.5 | 7.56 | 23 | 1490 | 1.7 | <2 | 2.24 | <0.5 | 26 | 108 | 43 | 5.46 | 20 | 2.28 | 30 |
| N451835 | | <0.5 | 7.98 | 9 | 450 | 2.1 | <2 | 3.85 | 0.5 | 24 | 64 | 55 | 5.90 | 20 | 1.48 | 40 |
| N451836 | | <0.5 | 7.58 | 22 | 2000 | 1.7 | <2 | 3.72 | <0.5 | 23 | 70 | 27 | 5.42 | 20 | 3.17 | 30 |
| N451837 | | <0.5 | 7.53 | 7 | 1660 | 1.7 | <2 | 3.31 | <0.5 | 15 | 47 | 44 | 4.34 | 20 | 1.87 | 30 |
| N451838 | | <0.5 | 6.68 | 12 | 1320 | 1.5 | <2 | 6.58 | 0.6 | 29 | 67 | 4 | 5.04 | 20 | 3.31 | 20 |
| L179543 | | <0.5 | 6.88 | 15 | 190 | <0.5 | <2 | 2.25 | 0.5 | 44 | 27 | 50 | 11.55 | 20 | 0.85 | <10 |
| L179544 | | <0.5 | 6.56 | <5 | 30 | 1.2 | <2 | 2.48 | <0.5 | 18 | 20 | 36 | 5.75 | 30 | 0.06 | 20 |
| L179545 | | <0.5 | 6.18 | 9 | 30 | 0.6 | <2 | 7.70 | 0.7 | 43 | 35 | 90 | 10.40 | 20 | 0.06 | <10 |
| L179546 | | <0.5 | 7.32 | <5 | 80 | <0.5 | <2 | 6.05 | 0.5 | 48 | 166 | 93 | 9.11 | 20 | 0.17 | <10 |
| L179547 | | <0.5 | 6.94 | <5 | 20 | <0.5 | 3 | 4.82 | 0.5 | 48 | 177 | 141 | 8.82 | 20 | 0.02 | <10 |
| L179548 | | <0.5 | 5.46 | <5 | 430 | <0.5 | <2 | 9.88 | 0.7 | 38 | 122 | 49 | 6.53 | 20 | 1.40 | <10 |
| L179549 | | <0.5 | 6.87 | 6 | 50 | <0.5 | <2 | 5.50 | 0.7 | 53 | 159 | 116 | 10.40 | 20 | 0.11 | <10 |
| L179550 | | <0.5 | 7.27 | <5 | 80 | 0.9 | <2 | 9.97 | 0.9 | 46 | 17 | 94 | 9.96 | 40 | 0.11 | <10 |
| L766501 | | <0.5 | 5.86 | <5 | 200 | <0.5 | <2 | 5.60 | 1.1 | 44 | 41 | 74 | 13.80 | 20 | 0.35 | <10 |
| L766502 | | <0.5 | 6.47 | <5 | 30 | <0.5 | <2 | 6.90 | 0.7 | 45 | 102 | 98 | 9.96 | 20 | 0.05 | <10 |
| L766503 | | <0.5 | 6.37 | <5 | 20 | <0.5 | <2 | 4.13 | 0.7 | 37 | 26 | 93 | 11.15 | 20 | 0.02 | <10 |
| L766504 | | <0.5 | 6.99 | <5 | 4270 | 2.1 | <2 | 1.59 | <0.5 | 7 | 27 | 7 | 2.27 | 20 | 1.36 | 10 |
| L766505 | | <0.5 | 6.34 | <5 | 160 | <0.5 | <2 | 5.82 | <0.5 | 35 | 166 | 50 | 6.52 | 20 | 0.50 | <10 |
| L766506 | | <0.5 | 6.63 | <5 | 50 | <0.5 | <2 | 5.77 | 0.6 | 49 | 106 | 101 | 10.25 | 20 | 0.06 | <10 |
| L766507 | | <0.5 | 7.00 | 6 | 320 | <0.5 | <2 | 5.60 | 0.8 | 50 | 108 | 108 | 11.00 | 20 | 0.36 | <10 |
| L766508 | | <0.5 | 7.64 | <5 | 100 | <0.5 | <2 | 7.93 | 0.7 | 43 | 204 | 117 | 8.58 | 20 | 0.25 | <10 |
| L766509 | | <0.5 | 6.78 | <5 | 110 | <0.5 | <2 | 8.42 | <0.5 | 40 | 163 | 120 | 8.24 | 20 | 0.27 | <10 |
| L766510 | | <0.5 | 7.33 | 6 | 50 | <0.5 | <2 | 6.04 | <0.5 | 45 | 195 | 130 | 9.24 | 20 | 0.07 | <10 |
| L766511 | | <0.5 | 6.74 | <5 | 40 | <0.5 | 4 | 3.98 | <0.5 | 30 | 197 | 6 | 6.01 | 20 | 0.14 | <10 |
| L766512 | | <0.5 | 7.41 | <5 | 30 | <0.5 | 3 | 5.40 | 0.5 | 42 | 197 | 85 | 10.05 | 20 | 0.07 | <10 |
| L766513 | | <0.5 | 6.27 | 5 | 130 | 0.7 | 4 | 3.27 | <0.5 | 24 | 5 | 51 | 6.52 | 20 | 0.46 | 10 |
| N451839 | | <0.5 | 6.49 | <5 | 1120 | 1.5 | <2 | 3.58 | <0.5 | 11 | 46 | 45 | 3.44 | 20 | 2.14 | 20 |
| N451840 | | <0.5 | 7.68 | 14 | 1310 | 1.7 | 4 | 2.43 | <0.5 | 18 | 84 | 1 | 5.12 | 20 | 2.28 | 30 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
| N451822 | | 1.93 | 1080 | <1 | 2.23 | 123 | 1260 | 4 | 0.20 | <5 | 21 | 677 | <20 | 0.18 | <10 | <10 |
| N451823 | | 2.41 | 704 | <1 | 2.44 | 104 | 1340 | 3 | 0.01 | 27 | 14 | 488 | <20 | 0.18 | <10 | <10 |
| N451824 | | 0.15 | 433 | 1 | 2.04 | 62 | 620 | 5 | 0.02 | <5 | 16 | 363 | <20 | 0.17 | <10 | <10 |
| N451825 | | 0.12 | 304 | <1 | 2.26 | 59 | 950 | 30 | 0.01 | 6 | 11 | 376 | <20 | 0.17 | <10 | <10 |
| N451826 | | 1.57 | 645 | <1 | 2.75 | 58 | 790 | 6 | 0.14 | <5 | 11 | 515 | <20 | 0.23 | <10 | <10 |
| N451827 | | 1.75 | 512 | <1 | 2.44 | 63 | 830 | 16 | 0.17 | <5 | 13 | 316 | <20 | 0.18 | <10 | <10 |
| N451828 | | 1.29 | 661 | <1 | 3.36 | 45 | 840 | 10 | 0.09 | <5 | 12 | 660 | <20 | 0.25 | <10 | <10 |
| N451829 | | 0.46 | 726 | <1 | 2.21 | 108 | 1330 | 6 | 0.02 | <5 | 16 | 314 | <20 | 0.14 | <10 | <10 |
| N451830 | | 1.22 | 679 | 1 | 1.31 | 75 | 790 | 7 | 0.04 | 7 | 13 | 390 | <20 | 0.16 | <10 | <10 |
| N451831 | | 1.37 | 378 | 1 | 2.22 | 89 | 1120 | 17 | 0.17 | <5 | 17 | 271 | <20 | 0.33 | <10 | <10 |
| N451832 | | 0.58 | 502 | <1 | 5.32 | 19 | 550 | <2 | 0.29 | <5 | 5 | 342 | <20 | 0.17 | <10 | <10 |
| N451833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451834 | | 2.81 | 1000 | <1 | 3.49 | 31 | 1690 | 6 | <0.01 | 5 | 19 | 512 | <20 | 0.39 | <10 | <10 |
| N451835 | | 2.67 | 979 | <1 | 3.05 | 24 | 2230 | 2 | <0.01 | <5 | 22 | 298 | <20 | 0.49 | <10 | <10 |
| N451836 | | 2.58 | 1095 | 1 | 2.69 | 22 | 1780 | 7 | 0.01 | <5 | 18 | 1375 | <20 | 0.43 | <10 | <10 |
| N451837 | | 1.75 | 873 | <1 | 2.89 | 15 | 1370 | <2 | 0.05 | <5 | 15 | 347 | <20 | 0.28 | <10 | <10 |
| N451838 | | 2.27 | 1080 | <1 | 0.57 | 33 | 1500 | 3 | 0.05 | 18 | 19 | 615 | <20 | 0.26 | <10 | <10 |
| L179543 | | 3.15 | 1300 | <1 | 0.62 | 40 | 1050 | <2 | 0.01 | <5 | 44 | 43 | <20 | 1.55 | <10 | <10 |
| L179544 | | 1.66 | 814 | 1 | 3.71 | 15 | 520 | <2 | 0.13 | <5 | 23 | 61 | <20 | 0.52 | <10 | <10 |
| L179545 | | 2.41 | 3050 | <1 | 0.30 | 44 | 1260 | <2 | 0.22 | <5 | 43 | 107 | <20 | 1.43 | <10 | <10 |
| L179546 | | 3.78 | 1885 | <1 | 1.62 | 91 | 580 | <2 | 0.15 | <5 | 41 | 69 | <20 | 0.87 | <10 | <10 |
| L179547 | | 3.87 | 1330 | <1 | 1.96 | 97 | 490 | <2 | 0.06 | <5 | 40 | 42 | <20 | 0.84 | <10 | <10 |
| L179548 | | 2.15 | 1805 | <1 | 0.30 | 71 | 350 | <2 | 0.12 | <5 | 30 | 55 | <20 | 0.55 | <10 | <10 |
| L179549 | | 3.89 | 1830 | <1 | 1.99 | 98 | 1120 | 2 | 0.15 | <5 | 46 | 93 | <20 | 1.08 | <10 | <10 |
| L179550 | | 2.40 | 3340 | <1 | 0.97 | 34 | 720 | <2 | 0.14 | <5 | 49 | 203 | <20 | 1.25 | <10 | <10 |
| L766501 | | 3.12 | 2760 | <1 | 0.17 | 43 | 530 | <2 | 0.04 | <5 | 41 | 88 | <20 | 1.09 | <10 | <10 |
| L766502 | | 2.69 | 1560 | <1 | 1.10 | 73 | 790 | <2 | 0.14 | <5 | 40 | 143 | <20 | 1.11 | <10 | <10 |
| L766503 | | 3.81 | 1705 | <1 | 0.83 | 31 | 440 | <2 | 0.14 | <5 | 37 | 45 | <20 | 0.77 | <10 | <10 |
| L766504 | | 0.40 | 382 | <1 | 3.90 | 15 | 480 | 4 | 0.19 | 7 | 6 | 507 | <20 | 0.14 | <10 | <10 |
| L766505 | | 3.29 | 1220 | <1 | 1.08 | 80 | 260 | <2 | 0.05 | <5 | 32 | 25 | <20 | 0.48 | <10 | <10 |
| L766506 | | 3.19 | 1520 | <1 | 2.23 | 77 | 830 | <2 | 0.19 | <5 | 41 | 276 | <20 | 1.13 | <10 | <10 |
| L766507 | | 2.83 | 1620 | <1 | 1.78 | 80 | 840 | <2 | 0.17 | <5 | 43 | 136 | <20 | 1.18 | <10 | <10 |
| L766508 | | 3.39 | 1440 | <1 | 1.33 | 112 | 330 | <2 | 0.08 | <5 | 42 | 287 | <20 | 0.69 | <10 | <10 |
| L766509 | | 2.90 | 1385 | 2 | 1.34 | 70 | 340 | 7 | 0.25 | <5 | 40 | 145 | <20 | 0.66 | <10 | <10 |
| L766510 | | 4.13 | 1375 | <1 | 2.17 | 113 | 440 | 2 | 0.11 | <5 | 38 | 197 | <20 | 0.77 | 10 | <10 |
| L766511 | | 3.59 | 949 | 1 | 2.47 | 88 | 150 | 2 | <0.01 | <5 | 27 | 23 | <20 | 0.33 | <10 | <10 |
| L766512 | | 3.41 | 1745 | 1 | 1.38 | 103 | 460 | 5 | 0.05 | <5 | 37 | 85 | <20 | 0.83 | <10 | <10 |
| L766513 | | 1.36 | 960 | 1 | 2.53 | 10 | 610 | 3 | 0.11 | 5 | 31 | 41 | <20 | 0.80 | <10 | <10 |
| N451839 | | 1.04 | 744 | 1 | 2.54 | 14 | 1230 | 7 | <0.01 | 7 | 11 | 454 | <20 | 0.25 | <10 | <10 |
| N451840 | | 2.67 | 997 | 1 | 3.69 | 18 | 1430 | 2 | <0.01 | <5 | 17 | 617 | <20 | 0.41 | <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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|
| N451822 | | 158 | <10 | 64 |
| N451823 | | 117 | <10 | 87 |
| N451824 | | 122 | <10 | 78 |
| N451825 | | 88 | 10 | 79 |
| N451826 | | 90 | <10 | 59 |
| N451827 | | 91 | <10 | 74 |
| N451828 | | 92 | <10 | 76 |
| N451829 | | 146 | <10 | 95 |
| N451830 | | 99 | <10 | 96 |
| N451831 | | 112 | <10 | 102 |
| N451832 | | 40 | <10 | 249 |
| N451833 | | NSS | NSS | NSS |
| N451834 | | 143 | <10 | 104 |
| N451835 | | 189 | <10 | 136 |
| N451836 | | 161 | <10 | 96 |
| N451837 | | 127 | <10 | 109 |
| N451838 | | 142 | <10 | 84 |
| L179543 | | 506 | <10 | 128 |
| L179544 | | 160 | <10 | 87 |
| L179545 | | 439 | <10 | 149 |
| L179546 | | 349 | <10 | 100 |
| L179547 | | 353 | <10 | 94 |
| L179548 | | 283 | <10 | 75 |
| L179549 | | 369 | <10 | 101 |
| L179550 | | 567 | <10 | 140 |
| L766501 | | 443 | <10 | 150 |
| L766502 | | 394 | <10 | 102 |
| L766503 | | 366 | <10 | 115 |
| L766504 | | 46 | <10 | 48 |
| L766505 | | 242 | <10 | 89 |
| L766506 | | 397 | <10 | 112 |
| L766507 | | 423 | <10 | 100 |
| L766508 | | 340 | <10 | 71 |
| L766509 | | 336 | <10 | 78 |
| L766510 | | 345 | <10 | 80 |
| L766511 | | 209 | <10 | 62 |
| L766512 | | 351 | <10 | 109 |
| L766513 | | 239 | <10 | 93 |
| N451839 | | 104 | <10 | 63 |
| N451840 | | 146 | <10 | 99 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
| N451841 | | <0.5 | 7.45 | 8 | 1540 | 1.7 | <2 | 3.54 | <0.5 | 19 | 82 | 31 | 5.22 | 20 | 1.99 | 30 |
| N451842 | | <0.5 | 6.87 | 15 | 920 | 1.9 | 3 | 5.88 | <0.5 | 13 | 61 | 43 | 4.59 | 20 | 2.69 | 30 |

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**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
| N451841 | | 2.53 | 968 | 1 | 3.35 | 21 | 1580 | 13 | <0.01 | 6 | 19 | 806 | <20 | 0.23 | <10 | <10 |
| N451842 | | 1.04 | 1285 | 1 | 2.83 | 20 | 1590 | 7 | 0.04 | <5 | 16 | 743 | <20 | 0.37 | 10 | <10 |

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# CERTIFICATE OF ANALYSIS SD14042824

| 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 |
|---|---|---|---|---|
| N451841 | | 160 | <10 | 98 |
| N451842 | | 159 | <10 | 65 |

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**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042824

## 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