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 SD14042945

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 119 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**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042945

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H751301 | | <0.5 | 6.72 | 20 | 420 | 1.0 | <2 | 2.28 | <0.5 | 25 | 229 | 50 | 4.62 | 20 | 1.20 | 20 |
| H751302 | | <0.5 | 6.92 | 21 | 450 | 1.2 | <2 | 3.27 | <0.5 | 21 | 140 | 96 | 4.22 | 20 | 2.11 | 20 |
| H751303 | | <0.5 | 6.59 | 18 | 490 | 0.9 | <2 | 2.58 | <0.5 | 28 | 283 | 52 | 4.97 | 20 | 1.70 | 20 |
| H751304 | | <0.5 | 6.84 | 41 | 430 | 1.0 | <2 | 4.03 | <0.5 | 41 | 6 | 93 | 6.81 | 20 | 0.78 | <10 |
| H751305 | | <0.5 | 5.95 | <5 | 520 | 2.5 | <2 | 4.94 | <0.5 | 37 | 192 | 40 | 6.44 | 10 | 0.45 | 50 |
| H751306 | | <0.5 | 7.83 | 5 | 1400 | 3.5 | <2 | 0.98 | <0.5 | 6 | 58 | 3 | 1.97 | 20 | 4.20 | 40 |
| H751307 | | <0.5 | 6.62 | <5 | 390 | 2.6 | <2 | 2.90 | <0.5 | 26 | 268 | 67 | 4.71 | 10 | 1.96 | 20 |
| H751308 | | <0.5 | 6.48 | 22 | 610 | 1.1 | <2 | 1.90 | <0.5 | 31 | 206 | 52 | 5.38 | 20 | 1.63 | 20 |
| H751309 | | <0.5 | 6.60 | 19 | 520 | 1.0 | <2 | 2.21 | <0.5 | 27 | 270 | 53 | 5.34 | 20 | 1.63 | 20 |
| H751310 | | <0.5 | 5.58 | <5 | 110 | 1.8 | 2 | 7.21 | <0.5 | 29 | 317 | 180 | 4.68 | 10 | 1.03 | 30 |
| H751311 | | <0.5 | 7.45 | 5 | 890 | 1.2 | <2 | 1.00 | <0.5 | 3 | 51 | 2 | 1.69 | 20 | 3.64 | 30 |
| H749478 | | <0.5 | 6.68 | 28 | 2070 | 4.3 | 3 | 5.19 | <0.5 | 33 | 39 | 75 | 7.30 | 20 | 4.44 | 130 |
| H749479 | | <0.5 | 6.93 | 17 | 1420 | 2.4 | <2 | 1.12 | <0.5 | 26 | 185 | 75 | 6.27 | 20 | 3.03 | 40 |
| H749480 | | <0.5 | 6.57 | 18 | 1700 | 2.7 | <2 | 3.94 | <0.5 | 29 | 145 | 97 | 5.89 | 20 | 3.50 | 40 |
| H749481 | | <0.5 | 6.22 | 12 | 1680 | 2.3 | <2 | 4.08 | <0.5 | 27 | 178 | 85 | 5.46 | 20 | 2.60 | 40 |
| H749482 | | <0.5 | 7.09 | 8 | 1360 | 2.3 | <2 | 2.85 | <0.5 | 22 | 203 | 22 | 4.80 | 20 | 2.92 | 30 |
| H749483 | | <0.5 | 10.55 | 12 | 3320 | 5.6 | <2 | 0.17 | <0.5 | 8 | 2 | 24 | 3.27 | 20 | 5.34 | 70 |
| H749484 | | <0.5 | 6.28 | 8 | 4790 | 5.1 | <2 | 4.64 | <0.5 | 15 | 55 | 154 | 5.38 | 20 | 2.92 | 140 |
| H749485 | | <0.5 | 7.88 | 152 | 1730 | 3.4 | <2 | 0.73 | <0.5 | 24 | 341 | 49 | 3.49 | 20 | 4.38 | 20 |
| H749486 | | <0.5 | 6.68 | 10 | 3340 | 9.9 | <2 | 4.27 | <0.5 | 13 | 89 | 150 | 5.17 | 20 | 4.15 | 110 |
| H749487 | | <0.5 | 6.49 | <5 | 1490 | 1.4 | <2 | 2.74 | <0.5 | 11 | 100 | 24 | 2.32 | 20 | 1.40 | 20 |
| H749488 | | <0.5 | 7.52 | 14 | 2290 | 2.4 | <2 | 3.11 | <0.5 | 16 | 28 | 27 | 4.87 | 20 | 4.76 | 70 |
| H749489 | | <0.5 | 7.45 | 24 | 1270 | 1.3 | 4 | 2.20 | <0.5 | 25 | 169 | 29 | 5.66 | 20 | 2.46 | 30 |
| H749490 | | <0.5 | 7.28 | 10 | 430 | 2.5 | 5 | 3.05 | <0.5 | 32 | 223 | 100 | 6.47 | 20 | 2.33 | 30 |
| H749491 | | <0.5 | 6.64 | 45 | 1970 | 2.8 | <2 | 4.66 | <0.5 | 25 | 147 | 91 | 5.66 | 20 | 3.70 | 40 |
| H749492 | | <0.5 | 7.93 | 18 | 1170 | 2.1 | <2 | 0.71 | <0.5 | 4 | 25 | 4 | 1.70 | 20 | 4.22 | 40 |
| H749493 | | <0.5 | 7.88 | <5 | 2040 | 2.2 | <2 | 1.13 | <0.5 | 4 | 53 | 1 | 2.10 | 20 | 3.77 | 40 |
| H749494 | | <0.5 | 8.10 | <5 | 1790 | 2.4 | <2 | 0.73 | <0.5 | 4 | 25 | 4 | 1.76 | 20 | 4.38 | 30 |
| H749495 | | <0.5 | 8.14 | <5 | 1880 | 3.2 | <2 | 0.73 | <0.5 | 1 | 41 | 6 | 1.90 | 20 | 4.15 | 40 |
| H749496 | | <0.5 | 6.38 | 25 | 530 | 2.2 | 4 | 3.43 | <0.5 | 23 | 113 | 14 | 5.41 | 10 | 4.37 | 10 |
| H749497 | | <0.5 | 7.32 | 5 | 1370 | 1.4 | <2 | 1.43 | <0.5 | 6 | 63 | <1 | 1.98 | 20 | 3.52 | 30 |
| H749498 | | <0.5 | 6.81 | 66 | 460 | 1.0 | <2 | 1.64 | <0.5 | 30 | 278 | 40 | 5.25 | 20 | 1.73 | 10 |
| H749499 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| H749500 | | <0.5 | 6.35 | 12 | 470 | 1.0 | <2 | 2.11 | <0.5 | 16 | 130 | 25 | 2.93 | 10 | 1.55 | 10 |
| I275702 | | <0.5 | 6.82 | <5 | 1330 | 1.7 | <2 | 1.44 | <0.5 | 6 | 61 | 34 | 1.74 | 10 | 3.21 | 30 |
| I275703 | | <0.5 | 7.57 | 10 | 1480 | 3.2 | <2 | 1.69 | <0.5 | 9 | 63 | 74 | 2.62 | 20 | 4.03 | 40 |
| I275704 | | <0.5 | 6.62 | <5 | 890 | 1.1 | <2 | 2.76 | <0.5 | 13 | 52 | 7 | 3.27 | 20 | 1.63 | 10 |
| I275705 | | <0.5 | 6.57 | <5 | 920 | 1.1 | <2 | 2.58 | <0.5 | 11 | 37 | 5 | 2.90 | 20 | 2.04 | 20 |
| I275706 | | <0.5 | 7.54 | 7 | 200 | 0.8 | <2 | 1.72 | <0.5 | 16 | 57 | 15 | 3.44 | 20 | 0.64 | 20 |
| I275707 | | <0.5 | 6.76 | <5 | 70 | <0.5 | 5 | 4.81 | <0.5 | 37 | 226 | 109 | 7.32 | 10 | 0.19 | <10 |

***** 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 SD14042945

| 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 |
| H751301 | | 2.24 | 813 | 2 | 2.87 | 126 | 700 | 8 | 0.06 | <5 | 17 | 375 | <20 | 0.26 | <10 | <10 |
| H751302 | | 1.93 | 862 | 1 | 2.34 | 90 | 630 | 4 | 0.23 | <5 | 14 | 314 | <20 | 0.28 | <10 | <10 |
| H751303 | | 2.31 | 770 | 2 | 2.42 | 121 | 720 | 10 | 0.22 | <5 | 20 | 338 | <20 | 0.39 | <10 | <10 |
| H751304 | | 2.03 | 1400 | <1 | 3.26 | 52 | 610 | 9 | 0.16 | <5 | 44 | 221 | <20 | 1.06 | <10 | <10 |
| H751305 | | 4.23 | 1385 | 2 | 3.49 | 95 | 3340 | 13 | 0.14 | <5 | 24 | 493 | <20 | 0.32 | <10 | <10 |
| H751306 | | 0.53 | 535 | 1 | 3.95 | 21 | 640 | 15 | 0.04 | <5 | 5 | 517 | 20 | 0.12 | <10 | <10 |
| H751307 | | 1.40 | 984 | 2 | 2.76 | 119 | 780 | 3 | 0.13 | <5 | 19 | 129 | <20 | 0.15 | <10 | <10 |
| H751308 | | 2.02 | 939 | 2 | 2.24 | 114 | 560 | 6 | 0.43 | <5 | 18 | 306 | <20 | 0.36 | <10 | <10 |
| H751309 | | 2.49 | 806 | 2 | 2.16 | 117 | 670 | 8 | 0.33 | <5 | 20 | 259 | <20 | 0.39 | <10 | <10 |
| H751310 | | 4.61 | 1080 | 1 | 2.60 | 187 | 2420 | 4 | 0.19 | <5 | 26 | 207 | <20 | 0.23 | <10 | <10 |
| H751311 | | 0.48 | 497 | 1 | 4.08 | 18 | 550 | 10 | 0.02 | <5 | 4 | 312 | <20 | 0.08 | <10 | <10 |
| H749478 | | 2.28 | 2590 | 3 | 0.25 | 55 | 2300 | 24 | 1.55 | 5 | 10 | 1335 | 30 | 0.21 | 10 | <10 |
| H749479 | | 1.86 | 467 | <1 | 2.23 | 52 | 2740 | 8 | 0.02 | 5 | 20 | 316 | <20 | 0.28 | <10 | <10 |
| H749480 | | 3.34 | 931 | 2 | 2.01 | 44 | 2580 | 21 | 0.02 | <5 | 19 | 1010 | <20 | 0.35 | <10 | <10 |
| H749481 | | 3.39 | 898 | 2 | 2.04 | 65 | 2450 | 13 | 0.03 | <5 | 19 | 811 | <20 | 0.34 | <10 | <10 |
| H749482 | | 3.17 | 916 | 2 | 3.55 | 58 | 1720 | 15 | 0.01 | <5 | 19 | 497 | <20 | 0.31 | 10 | <10 |
| H749483 | | 0.13 | 711 | 1 | 3.03 | 2 | 1060 | 49 | 0.04 | <5 | 3 | 531 | 30 | 0.18 | <10 | <10 |
| H749484 | | 1.98 | 1390 | 1 | 2.56 | 24 | 3090 | 11 | 0.17 | 9 | 15 | 2140 | 40 | 0.44 | <10 | <10 |
| H749485 | | 0.81 | 437 | 2 | 1.04 | 148 | 1710 | 22 | 0.16 | 8 | 22 | 198 | <20 | 0.21 | <10 | <10 |
| H749486 | | 2.03 | 1245 | 1 | 0.78 | 41 | 3160 | 21 | 0.06 | 12 | 11 | 2010 | 40 | 0.35 | <10 | <10 |
| H749487 | | 1.46 | 535 | <1 | 3.71 | 24 | 660 | 19 | 0.03 | <5 | 8 | 1140 | <20 | 0.13 | <10 | <10 |
| H749488 | | 1.53 | 1130 | 2 | 3.07 | 12 | 1840 | 34 | 0.05 | 5 | 13 | 701 | 20 | 0.34 | <10 | <10 |
| H749489 | | 3.85 | 872 | <1 | 3.12 | 67 | 1710 | 3 | 0.08 | <5 | 16 | 244 | <20 | 0.46 | <10 | <10 |
| H749490 | | 4.33 | 960 | <1 | 2.75 | 90 | 2440 | 4 | 0.01 | <5 | 20 | 254 | <20 | 0.51 | <10 | <10 |
| H749491 | | 1.98 | 1010 | 1 | 1.67 | 45 | 2510 | 3 | 0.01 | <5 | 19 | 890 | <20 | 0.42 | <10 | <10 |
| H749492 | | 0.27 | 364 | <1 | 4.45 | 11 | 430 | 3 | 0.91 | <5 | 3 | 618 | 20 | 0.12 | <10 | <10 |
| H749493 | | 0.62 | 513 | <1 | 4.73 | 19 | 560 | 5 | 0.17 | <5 | 4 | 540 | <20 | 0.11 | <10 | <10 |
| H749494 | | 0.25 | 325 | <1 | 4.64 | 9 | 460 | 6 | 0.78 | <5 | 2 | 746 | <20 | 0.10 | <10 | <10 |
| H749495 | | 0.36 | 541 | <1 | 4.64 | 19 | 640 | 21 | 0.04 | <5 | 4 | 870 | <20 | 0.13 | <10 | <10 |
| H749496 | | 1.86 | 1260 | 4 | 1.57 | 64 | 630 | 2 | 1.92 | <5 | 19 | 550 | <20 | 0.30 | <10 | <10 |
| H749497 | | 0.63 | 442 | <1 | 3.84 | 18 | 730 | 3 | 0.05 | <5 | 5 | 399 | 20 | 0.11 | <10 | <10 |
| H749498 | | 2.24 | 702 | 3 | 2.34 | 158 | 770 | 2 | 0.26 | <5 | 21 | 207 | <20 | 0.40 | <10 | <10 |
| H749499 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| H749500 | | 1.31 | 584 | 1 | 2.51 | 66 | 520 | 8 | 0.09 | <5 | 9 | 266 | <20 | 0.17 | <10 | <10 |
| I275702 | | 0.74 | 406 | <1 | 3.18 | 27 | 420 | 7 | 0.18 | <5 | 4 | 618 | <20 | 0.10 | <10 | <10 |
| I275703 | | 0.96 | 605 | 1 | 3.11 | 31 | 930 | 24 | 0.54 | <5 | 5 | 825 | <20 | 0.13 | <10 | <10 |
| I275704 | | 1.52 | 547 | <1 | 3.24 | 35 | 770 | 5 | 0.15 | <5 | 9 | 602 | <20 | 0.23 | <10 | <10 |
| I275705 | | 1.30 | 489 | <1 | 3.06 | 27 | 810 | 2 | 0.39 | <5 | 7 | 453 | <20 | 0.18 | <10 | <10 |
| I275706 | | 2.13 | 522 | <1 | 5.21 | 43 | 720 | <2 | 0.20 | <5 | 10 | 260 | <20 | 0.22 | <10 | <10 |
| I275707 | | 4.77 | 1270 | <1 | 2.28 | 90 | 200 | <2 | 0.03 | <5 | 35 | 135 | <20 | 0.44 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042945

| 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 |
|---|---|---|---|---|
| H751301 | | 131 | <10 | 83 |
| H751302 | | 110 | <10 | 60 |
| H751303 | | 152 | <10 | 91 |
| H751304 | | 449 | <10 | 131 |
| H751305 | | 173 | <10 | 56 |
| H751306 | | 45 | 10 | 33 |
| H751307 | | 153 | <10 | 83 |
| H751308 | | 136 | <10 | 89 |
| H751309 | | 156 | <10 | 91 |
| H751310 | | 191 | <10 | 51 |
| H751311 | | 38 | <10 | 19 |
| H749478 | | 263 | <10 | 148 |
| H749479 | | 173 | <10 | 117 |
| H749480 | | 178 | <10 | 93 |
| H749481 | | 170 | <10 | 93 |
| H749482 | | 136 | <10 | 80 |
| H749483 | | 79 | <10 | 130 |
| H749484 | | 221 | <10 | 65 |
| H749485 | | 176 | <10 | 56 |
| H749486 | | 225 | <10 | 80 |
| H749487 | | 59 | <10 | 44 |
| H749488 | | 149 | <10 | 84 |
| H749489 | | 160 | <10 | 99 |
| H749490 | | 193 | <10 | 107 |
| H749491 | | 176 | <10 | 71 |
| H749492 | | 23 | 10 | 11 |
| H749493 | | 47 | <10 | 17 |
| H749494 | | 34 | <10 | 11 |
| H749495 | | 48 | <10 | 28 |
| H749496 | | 252 | <10 | 57 |
| H749497 | | 34 | 10 | 22 |
| H749498 | | 179 | <10 | 83 |
| H749499 | | NSS | NSS | NSS |
| H749500 | | 73 | <10 | 49 |
| I275702 | | 31 | <10 | 23 |
| I275703 | | 42 | <10 | 37 |
| I275704 | | 82 | <10 | 72 |
| I275705 | | 73 | <10 | 66 |
| I275706 | | 88 | <10 | 68 |
| I275707 | | 270 | <10 | 66 |

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# CERTIFICATE OF ANALYSIS SD14042945

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275708 | | <0.5 | 7.04 | <5 | 1220 | 1.2 | <2 | 2.83 | <0.5 | 16 | 72 | 25 | 3.56 | 20 | 1.82 | 20 |
| I275709 | | <0.5 | 6.93 | 6 | 1080 | 1.1 | <2 | 2.72 | <0.5 | 10 | 36 | 8 | 2.82 | 20 | 1.73 | 20 |
| I275710 | | <0.5 | 6.62 | <5 | 760 | 1.1 | <2 | 3.24 | <0.5 | 12 | 143 | 29 | 3.08 | 20 | 1.49 | 20 |
| I275711 | | <0.5 | 6.93 | <5 | 1600 | 1.8 | <2 | 1.93 | <0.5 | 10 | 86 | 10 | 2.67 | 20 | 3.09 | 30 |
| I275712 | | <0.5 | 7.45 | <5 | 950 | 1.1 | <2 | 1.72 | <0.5 | 7 | 58 | 5 | 1.95 | 20 | 1.91 | 20 |
| I275713 | | <0.5 | 6.97 | 5 | 2590 | 1.0 | <2 | 2.73 | <0.5 | 16 | 162 | 19 | 3.59 | 20 | 0.79 | 20 |
| I275714 | | <0.5 | 7.27 | 5 | 1770 | 1.5 | <2 | 1.81 | <0.5 | 11 | 100 | 18 | 2.68 | 20 | 2.23 | 20 |
| I275715 | | <0.5 | 7.31 | 6 | 1500 | 1.3 | <2 | 1.59 | <0.5 | 9 | 67 | 18 | 2.25 | 20 | 2.64 | 20 |
| I275716 | | <0.5 | 6.92 | <5 | 980 | 1.8 | <2 | 4.00 | <0.5 | 26 | 132 | 59 | 5.04 | 20 | 2.16 | 20 |
| I275717 | | <0.5 | 7.36 | 6 | 840 | 1.2 | <2 | 1.81 | <0.5 | 11 | 68 | 13 | 2.94 | 20 | 1.62 | 20 |
| I275718 | | <0.5 | 7.65 | 19 | 1550 | 2.5 | <2 | 1.03 | <0.5 | 9 | 59 | 67 | 2.43 | 20 | 3.76 | 50 |
| I275719 | | <0.5 | 7.35 | <5 | 560 | 1.1 | <2 | 1.91 | <0.5 | 12 | 89 | 6 | 2.90 | 20 | 1.35 | 20 |
| I275720 | | <0.5 | 6.83 | <5 | 1280 | 1.3 | <2 | 2.64 | <0.5 | 15 | 100 | 20 | 2.94 | 20 | 1.17 | 20 |
| I275721 | | <0.5 | 7.42 | <5 | 1760 | 1.5 | <2 | 1.60 | <0.5 | 6 | 61 | 9 | 2.01 | 20 | 3.01 | 30 |
| I275722 | | <0.5 | 5.11 | <5 | 100 | <0.5 | <2 | 5.31 | <0.5 | 61 | 1155 | 20 | 7.68 | 10 | 0.55 | <10 |
| I275723 | | <0.5 | 3.17 | <5 | 20 | <0.5 | <2 | 5.39 | <0.5 | 66 | 1270 | 56 | 6.03 | 10 | 0.06 | <10 |
| I275724 | | <0.5 | 7.21 | <5 | 1790 | 1.6 | <2 | 1.38 | <0.5 | 5 | 52 | 35 | 1.77 | 20 | 2.02 | 20 |
| I275725 | | <0.5 | 6.72 | <5 | 780 | 1.3 | <2 | 3.99 | <0.5 | 10 | 77 | 59 | 2.59 | 20 | 0.98 | 30 |
| I275726 | | <0.5 | 7.21 | <5 | 940 | 1.3 | <2 | 2.12 | <0.5 | 15 | 96 | 23 | 2.73 | 20 | 1.83 | 30 |
| I275727 | | <0.5 | 7.47 | <5 | 1600 | 1.6 | <2 | 1.31 | <0.5 | 7 | 54 | 15 | 1.86 | 20 | 2.83 | 30 |
| I275728 | | <0.5 | 7.18 | <5 | 1320 | 1.4 | <2 | 2.25 | <0.5 | 12 | 107 | 5 | 2.93 | 20 | 2.08 | 20 |
| I275729 | | <0.5 | 6.75 | 7 | 720 | 1.3 | <2 | 2.23 | <0.5 | 15 | 149 | 40 | 2.84 | 20 | 1.28 | 30 |
| I275730 | | <0.5 | 6.91 | <5 | 2080 | 1.5 | <2 | 2.94 | <0.5 | 16 | 112 | 16 | 3.92 | 20 | 2.45 | 40 |
| I275731 | | <0.5 | 7.20 | 11 | 1430 | 3.3 | <2 | 1.67 | <0.5 | 6 | 57 | 47 | 2.18 | 20 | 3.44 | 40 |
| I275732 | | <0.5 | 7.29 | <5 | 1570 | 1.4 | <2 | 2.23 | <0.5 | 7 | 70 | 8 | 2.25 | 20 | 1.98 | 20 |
| I275733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275734 | | <0.5 | 7.04 | <5 | 1050 | 1.2 | <2 | 1.54 | <0.5 | 15 | 148 | 9 | 2.84 | 20 | 1.79 | 30 |
| I275735 | | <0.5 | 7.15 | <5 | 470 | 1.1 | <2 | 2.29 | <0.5 | 15 | 161 | 19 | 3.12 | 20 | 1.37 | 30 |
| I275736 | | <0.5 | 7.38 | <5 | 320 | 1.4 | <2 | 4.21 | <0.5 | 30 | 213 | 65 | 5.82 | 20 | 1.41 | 20 |
| I275737 | | <0.5 | 6.26 | 6 | 690 | 1.1 | <2 | 2.50 | <0.5 | 13 | 113 | 47 | 2.44 | 20 | 0.96 | 30 |
| I275738 | | <0.5 | 6.61 | <5 | 540 | 1.0 | <2 | 3.09 | <0.5 | 11 | 161 | 40 | 2.46 | 20 | 1.47 | 30 |
| I275739 | | <0.5 | 7.26 | <5 | 930 | 1.1 | <2 | 2.37 | <0.5 | 13 | 86 | 39 | 2.69 | 20 | 1.76 | 20 |
| I275740 | | <0.5 | 7.33 | <5 | 860 | 1.2 | <2 | 2.13 | <0.5 | 15 | 60 | 22 | 3.07 | 20 | 1.77 | 20 |
| I275741 | | <0.5 | 7.32 | <5 | 1340 | 1.3 | <2 | 2.17 | <0.5 | 13 | 94 | 61 | 2.80 | 20 | 1.97 | 20 |
| I275742 | | <0.5 | 7.89 | 19 | 700 | 1.2 | <2 | 1.09 | <0.5 | 7 | 56 | 47 | 1.84 | 20 | 0.85 | 40 |
| I275743 | | <0.5 | 6.39 | <5 | 2020 | 1.3 | <2 | 3.62 | <0.5 | 26 | 192 | 34 | 4.55 | 20 | 3.05 | 40 |
| I275744 | | <0.5 | 7.35 | <5 | 890 | 1.4 | <2 | 2.50 | <0.5 | 11 | 89 | 8 | 2.73 | 20 | 1.93 | 20 |
| I275745 | | <0.5 | 7.80 | 12 | 1430 | 2.8 | <2 | 1.31 | <0.5 | 8 | 47 | 44 | 2.26 | 20 | 4.12 | 50 |
| I275746 | | <0.5 | 7.22 | 8 | 1310 | 2.8 | <2 | 1.71 | <0.5 | 7 | 53 | 13 | 2.18 | 20 | 3.15 | 40 |
| I275747 | | <0.5 | 7.50 | 10 | 1780 | 1.7 | <2 | 1.24 | <0.5 | 4 | 34 | 34 | 1.35 | 20 | 1.88 | 40 |

***** 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 SD14042945

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275708 | | 1.98 | 577 | <1 | 3.30 | 52 | 790 | 7 | 0.03 | <5 | 11 | 655 | <20 | 0.26 | <10 | <10 |
| I275709 | | 1.26 | 512 | <1 | 3.47 | 25 | 830 | 4 | 0.46 | <5 | 8 | 443 | <20 | 0.23 | <10 | <10 |
| I275710 | | 2.19 | 615 | <1 | 3.34 | 81 | 800 | 2 | 0.06 | <5 | 9 | 350 | <20 | 0.25 | <10 | <10 |
| I275711 | | 1.29 | 626 | <1 | 3.01 | 44 | 740 | 7 | 0.17 | <5 | 6 | 704 | <20 | 0.11 | <10 | <10 |
| I275712 | | 0.97 | 323 | 6 | 3.57 | 28 | 470 | 13 | 0.02 | <5 | 4 | 584 | <20 | 0.15 | <10 | <10 |
| I275713 | | 2.06 | 762 | <1 | 4.70 | 102 | 750 | 6 | 0.70 | <5 | 12 | 588 | <20 | 0.20 | <10 | <10 |
| I275714 | | 1.64 | 413 | <1 | 3.80 | 46 | 800 | 13 | 0.32 | <5 | 7 | 645 | <20 | 0.27 | <10 | <10 |
| I275715 | | 1.44 | 284 | <1 | 3.77 | 33 | 880 | 7 | 0.06 | <5 | 6 | 518 | <20 | 0.25 | <10 | <10 |
| I275716 | | 3.48 | 780 | <1 | 2.67 | 59 | 1030 | 16 | 0.23 | <5 | 22 | 686 | <20 | 0.31 | <10 | <10 |
| I275717 | | 1.59 | 477 | <1 | 4.01 | 40 | 710 | <2 | 0.16 | <5 | 9 | 449 | <20 | 0.25 | <10 | <10 |
| I275718 | | 0.86 | 461 | 1 | 3.28 | 30 | 840 | 11 | 0.46 | <5 | 5 | 727 | <20 | 0.12 | <10 | <10 |
| I275719 | | 1.50 | 389 | <1 | 4.21 | 38 | 830 | <2 | 0.13 | <5 | 7 | 351 | <20 | 0.27 | <10 | <10 |
| I275720 | | 1.90 | 470 | <1 | 4.03 | 56 | 810 | <2 | 0.14 | <5 | 9 | 560 | <20 | 0.25 | <10 | <10 |
| I275721 | | 1.03 | 426 | <1 | 4.08 | 25 | 500 | 11 | 0.13 | <5 | 5 | 731 | <20 | 0.17 | <10 | <10 |
| I275722 | | 9.21 | 1360 | <1 | 1.26 | 542 | 170 | <2 | 0.03 | <5 | 32 | 56 | <20 | 0.33 | <10 | <10 |
| I275723 | | 14.05 | 1060 | <1 | 0.18 | 1070 | 70 | <2 | 0.01 | <5 | 19 | 43 | <20 | 0.16 | <10 | <10 |
| I275724 | | 0.90 | 354 | <1 | 4.30 | 23 | 430 | 15 | 0.18 | <5 | 4 | 767 | <20 | 0.15 | <10 | <10 |
| I275725 | | 1.41 | 607 | <1 | 4.31 | 41 | 480 | 6 | 0.36 | <5 | 7 | 627 | <20 | 0.18 | <10 | <10 |
| I275726 | | 1.69 | 516 | 2 | 3.71 | 63 | 820 | 21 | 0.10 | <5 | 8 | 501 | <20 | 0.22 | <10 | <10 |
| I275727 | | 0.89 | 334 | 1 | 3.78 | 28 | 520 | 21 | 0.18 | <5 | 4 | 752 | <20 | 0.16 | <10 | <10 |
| I275728 | | 1.79 | 498 | <1 | 3.68 | 56 | 800 | 14 | 0.03 | <5 | 8 | 876 | <20 | 0.29 | <10 | <10 |
| I275729 | | 1.72 | 554 | <1 | 4.14 | 76 | 790 | 9 | 0.38 | <5 | 9 | 571 | <20 | 0.15 | <10 | <10 |
| I275730 | | 2.17 | 724 | <1 | 3.56 | 48 | 1490 | 14 | 0.18 | <5 | 12 | 833 | <20 | 0.25 | <10 | <10 |
| I275731 | | 0.68 | 529 | 1 | 3.30 | 27 | 790 | 24 | 0.24 | <5 | 5 | 940 | <20 | 0.12 | <10 | <10 |
| I275732 | | 1.24 | 395 | <1 | 4.56 | 35 | 630 | 12 | 0.04 | <5 | 5 | 621 | <20 | 0.25 | <10 | <10 |
| I275733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275734 | | 2.09 | 424 | 2 | 3.42 | 73 | 770 | 12 | 0.19 | 6 | 8 | 459 | <20 | 0.22 | <10 | <10 |
| I275735 | | 2.19 | 508 | 1 | 3.83 | 84 | 850 | 12 | 0.04 | <5 | 10 | 432 | <20 | 0.24 | <10 | <10 |
| I275736 | | 3.19 | 912 | <1 | 3.67 | 41 | 1640 | 26 | 1.88 | 7 | 26 | 371 | <20 | 0.38 | <10 | <10 |
| I275737 | | 1.53 | 477 | 2 | 3.74 | 61 | 660 | 14 | 0.36 | <5 | 8 | 632 | <20 | 0.15 | <10 | <10 |
| I275738 | | 1.65 | 641 | 6 | 3.77 | 90 | 710 | 15 | 0.62 | <5 | 7 | 584 | <20 | 0.18 | <10 | <10 |
| I275739 | | 1.42 | 432 | 1 | 3.89 | 41 | 860 | 10 | 0.34 | <5 | 6 | 584 | <20 | 0.26 | <10 | <10 |
| I275740 | | 1.95 | 589 | <1 | 4.31 | 56 | 780 | 13 | 0.44 | 6 | 9 | 482 | <20 | 0.20 | <10 | <10 |
| I275741 | | 1.39 | 435 | <1 | 3.70 | 43 | 860 | 13 | 0.12 | <5 | 6 | 891 | <20 | 0.26 | <10 | <10 |
| I275742 | | 0.48 | 372 | 1 | 5.77 | 26 | 780 | 12 | 0.59 | <5 | 5 | 521 | <20 | 0.10 | <10 | <10 |
| I275743 | | 3.26 | 765 | <1 | 2.01 | 58 | 2030 | 17 | 0.07 | 5 | 15 | 1030 | <20 | 0.21 | <10 | <10 |
| I275744 | | 1.39 | 410 | 1 | 3.76 | 43 | 910 | 8 | 0.18 | <5 | 7 | 602 | <20 | 0.16 | <10 | <10 |
| I275745 | | 0.48 | 487 | 4 | 3.34 | 24 | 770 | 35 | 0.62 | <5 | 4 | 860 | 20 | 0.12 | <10 | <10 |
| I275746 | | 0.74 | 471 | 3 | 3.55 | 25 | 620 | 39 | 0.76 | <5 | 4 | 1010 | <20 | 0.12 | <10 | <10 |
| I275747 | | 0.50 | 325 | 1 | 4.33 | 18 | 380 | 16 | 0.29 | <5 | 3 | 620 | <20 | 0.11 | <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 SD14042945

| 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 |
|---|---|---|---|---|
| I275708 | | 96 | <10 | 66 |
| I275709 | | 72 | <10 | 61 |
| I275710 | | 78 | <10 | 69 |
| I275711 | | 60 | <10 | 50 |
| I275712 | | 43 | <10 | 46 |
| I275713 | | 104 | <10 | 69 |
| I275714 | | 69 | <10 | 60 |
| I275715 | | 58 | <10 | 43 |
| I275716 | | 163 | <10 | 95 |
| I275717 | | 78 | <10 | 58 |
| I275718 | | 52 | <10 | 40 |
| I275719 | | 72 | <10 | 70 |
| I275720 | | 76 | <10 | 59 |
| I275721 | | 45 | <10 | 39 |
| I275722 | | 200 | <10 | 75 |
| I275723 | | 115 | <10 | 59 |
| I275724 | | 40 | <10 | 37 |
| I275725 | | 47 | <10 | 43 |
| I275726 | | 66 | <10 | 75 |
| I275727 | | 43 | <10 | 47 |
| I275728 | | 75 | <10 | 75 |
| I275729 | | 77 | <10 | 61 |
| I275730 | | 108 | <10 | 64 |
| I275731 | | 54 | <10 | 27 |
| I275732 | | 57 | <10 | 52 |
| I275733 | | NSS | NSS | NSS |
| I275734 | | 76 | 10 | 62 |
| I275735 | | 85 | <10 | 75 |
| I275736 | | 204 | <10 | 85 |
| I275737 | | 65 | 10 | 48 |
| I275738 | | 66 | 10 | 56 |
| I275739 | | 72 | 10 | 69 |
| I275740 | | 80 | <10 | 54 |
| I275741 | | 72 | <10 | 71 |
| I275742 | | 47 | 10 | 25 |
| I275743 | | 121 | <10 | 105 |
| I275744 | | 72 | <10 | 56 |
| I275745 | | 47 | <10 | 33 |
| I275746 | | 45 | <10 | 46 |
| I275747 | | 36 | 10 | 16 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042945

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275748 | | <0.5 | 7.97 | 7 | 920 | 1.3 | <2 | 1.82 | <0.5 | 8 | 35 | 41 | 2.74 | 20 | 1.50 | 50 |
| I275749 | | <0.5 | 7.26 | <5 | 1140 | 1.2 | <2 | 1.72 | <0.5 | 12 | 95 | 32 | 2.63 | 20 | 1.98 | 20 |
| I275750 | | <0.5 | 7.43 | <5 | 500 | 1.4 | <2 | 1.68 | <0.5 | 4 | 45 | 28 | 1.44 | 20 | 0.85 | 30 |
| I275751 | | <0.5 | 7.15 | <5 | 1390 | 1.6 | <2 | 0.86 | <0.5 | 7 | 46 | 7 | 1.86 | 20 | 2.31 | 30 |
| I275752 | | <0.5 | 5.26 | <5 | 50 | <0.5 | <2 | 5.19 | 0.5 | 70 | 1020 | 66 | 7.54 | 10 | 0.34 | <10 |
| I275753 | | <0.5 | 7.95 | <5 | 1710 | 1.8 | <2 | 2.44 | <0.5 | 13 | 12 | 54 | 4.46 | 20 | 3.15 | 40 |
| I275754 | | <0.5 | 6.82 | 5 | 1150 | 1.2 | <2 | 0.94 | <0.5 | 5 | 47 | 16 | 1.52 | 20 | 1.81 | 30 |
| I275755 | | <0.5 | 7.01 | 14 | 1280 | 1.3 | <2 | 1.23 | <0.5 | 4 | 41 | 42 | 1.40 | 20 | 1.83 | 30 |
| I275756 | | <0.5 | 7.97 | <5 | 2550 | 1.6 | <2 | 1.88 | <0.5 | 3 | 49 | 7 | 1.61 | 20 | 2.75 | 30 |
| I275757 | | <0.5 | 6.88 | <5 | 1600 | 1.7 | <2 | 1.59 | <0.5 | 4 | 32 | 35 | 1.35 | 20 | 2.02 | 30 |
| N440761 | | <0.5 | 6.63 | 8 | 4570 | 5.8 | <2 | 2.77 | <0.5 | 17 | 70 | 146 | 5.14 | 20 | 3.23 | 120 |
| N440762 | | <0.5 | 8.53 | <5 | 2200 | 3.7 | <2 | 1.67 | <0.5 | 13 | 14 | 100 | 4.33 | 20 | 6.13 | 70 |
| N440763 | | <0.5 | 5.70 | <5 | 750 | 1.1 | <2 | 6.12 | <0.5 | 29 | 127 | 64 | 6.41 | 20 | 1.26 | 50 |
| N440764 | | <0.5 | 6.33 | <5 | 300 | 1.0 | <2 | 2.26 | <0.5 | 22 | 200 | 43 | 3.79 | 10 | 0.35 | 40 |
| N440765 | | <0.5 | 8.04 | 10 | 310 | 0.7 | 3 | 2.97 | <0.5 | 18 | 32 | 23 | 5.45 | 20 | 0.77 | 10 |
| N440766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N440767 | | 2.2 | 5.54 | 36 | 1330 | 1.1 | 2 | 1.05 | <0.5 | 2 | 46 | 1620 | 1.51 | 10 | 2.70 | 10 |
| N440768 | | 0.6 | 7.12 | 7 | 3170 | 1.5 | <2 | 1.96 | <0.5 | 4 | 55 | 840 | 2.46 | 20 | 2.77 | 30 |
| N440769 | | 0.6 | 7.22 | 19 | 2170 | 1.6 | 2 | 1.61 | <0.5 | 8 | 50 | 679 | 2.50 | 20 | 3.13 | 20 |
| N440770 | | <0.5 | 7.08 | 28 | 610 | 1.4 | <2 | 0.95 | <0.5 | 6 | 52 | 950 | 2.19 | 20 | 2.93 | 20 |
| N440771 | | 0.7 | 6.32 | 24 | 470 | 1.3 | <2 | 0.99 | <0.5 | 7 | 53 | 2010 | 2.03 | 20 | 2.54 | 20 |
| N440772 | | 0.6 | 7.31 | 26 | 720 | 1.5 | <2 | 1.13 | <0.5 | 7 | 66 | 627 | 2.47 | 20 | 2.82 | 20 |
| N440773 | | 2.3 | 7.24 | 59 | 780 | 1.6 | 3 | 1.05 | <0.5 | 9 | 67 | 1130 | 2.99 | 20 | 2.82 | 30 |
| N440774 | | 0.7 | 7.66 | 24 | 3940 | 1.5 | 2 | 1.13 | <0.5 | 8 | 51 | 933 | 2.87 | 20 | 3.32 | 30 |
| N440775 | | <0.5 | 6.89 | 10 | 1640 | 1.8 | 2 | 4.72 | <0.5 | 20 | 66 | 115 | 5.00 | 10 | 4.54 | 70 |
| N440776 | | <0.5 | 7.72 | 7 | 1360 | 2.2 | <2 | 2.36 | <0.5 | 17 | 63 | 24 | 4.92 | 20 | 2.61 | 80 |
| N440777 | | <0.5 | 7.44 | 10 | 4750 | 2.3 | <2 | 2.95 | <0.5 | 10 | 11 | 78 | 3.86 | 10 | 5.20 | 50 |
| N440778 | | <0.5 | 7.48 | 11 | 2130 | 1.8 | <2 | 3.18 | <0.5 | 20 | 91 | 135 | 5.15 | 20 | 1.32 | 60 |
| N440779 | | <0.5 | 7.60 | 8 | 2250 | 1.8 | <2 | 3.32 | <0.5 | 20 | 93 | 134 | 5.30 | 20 | 1.34 | 60 |
| N440780 | | <0.5 | 7.60 | 16 | 2470 | 2.9 | <2 | 2.92 | <0.5 | 20 | 132 | 71 | 4.78 | 20 | 3.20 | 60 |
| N440781 | | <0.5 | 8.98 | 26 | 2920 | 2.8 | 2 | 1.74 | <0.5 | 22 | 15 | 118 | 4.23 | 20 | 4.20 | 70 |
| N440782 | | <0.5 | 10.10 | 9 | 2560 | 5.4 | <2 | 1.33 | <0.5 | 11 | 5 | 55 | 4.06 | 20 | 4.55 | 50 |
| N440783 | | <0.5 | 11.70 | 9 | 2480 | 9.2 | <2 | 0.79 | <0.5 | 14 | 5 | 106 | 4.39 | 30 | 5.41 | 60 |
| N440784 | | <0.5 | 7.96 | 19 | 3140 | 6.8 | <2 | 2.97 | <0.5 | 24 | 59 | 99 | 6.51 | 20 | 4.74 | 100 |
| N440785 | | <0.5 | 6.55 | 22 | 2480 | 8.1 | <2 | 5.67 | <0.5 | 23 | 63 | 160 | 7.54 | 20 | 3.17 | 170 |
| N440786 | | <0.5 | 7.55 | 25 | 2140 | 3.1 | 2 | 4.28 | <0.5 | 22 | 38 | 74 | 5.68 | 20 | 3.55 | 70 |
| N440787 | | <0.5 | 9.66 | 5 | 2000 | 4.6 | <2 | 1.81 | <0.5 | 11 | 4 | 31 | 4.24 | 20 | 3.87 | 60 |
| N440788 | | <0.5 | 9.05 | 14 | 2780 | 3.8 | <2 | 2.10 | <0.5 | 19 | 13 | 15 | 4.23 | 20 | 4.03 | 60 |
| N440789 | | <0.5 | 7.94 | <5 | 70 | 0.7 | <2 | 4.74 | <0.5 | 22 | 91 | 28 | 5.31 | 20 | 0.11 | 10 |

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

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042945

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275748 | | 0.73 | 574 | 1 | 5.61 | 17 | 1750 | 32 | 1.44 | 7 | 5 | 637 | <20 | 0.14 | <10 | <10 |
| I275749 | | 1.37 | 343 | 3 | 3.56 | 40 | 800 | 16 | 0.17 | 8 | 6 | 664 | <20 | 0.28 | <10 | <10 |
| I275750 | | 0.51 | 484 | 6 | 5.87 | 16 | 560 | 25 | 0.41 | <5 | 4 | 602 | <20 | 0.12 | <10 | <10 |
| I275751 | | 0.78 | 346 | 1 | 3.78 | 26 | 440 | 7 | 0.15 | 6 | 4 | 462 | <20 | 0.11 | <10 | <10 |
| I275752 | | 9.34 | 1495 | <1 | 1.12 | 518 | 200 | 6 | 0.07 | 7 | 31 | 140 | <20 | 0.31 | <10 | <10 |
| I275753 | | 1.35 | 808 | <1 | 3.30 | 15 | 1660 | 24 | 0.08 | <5 | 10 | 1030 | <20 | 0.35 | <10 | <10 |
| I275754 | | 0.43 | 338 | 1 | 4.07 | 22 | 430 | 15 | 0.18 | <5 | 4 | 448 | <20 | 0.11 | <10 | <10 |
| I275755 | | 0.49 | 376 | <1 | 4.19 | 17 | 450 | 19 | 0.25 | <5 | 3 | 595 | <20 | 0.10 | <10 | <10 |
| I275756 | | 0.69 | 397 | 1 | 4.36 | 23 | 600 | 21 | 0.07 | <5 | 4 | 963 | <20 | 0.15 | <10 | <10 |
| I275757 | | 0.64 | 355 | 1 | 3.80 | 17 | 520 | 14 | 0.24 | 5 | 3 | 694 | <20 | 0.10 | <10 | <10 |
| N440761 | | 1.59 | 1140 | 1 | 1.89 | 39 | 2010 | 21 | 0.44 | 7 | 11 | 4990 | 40 | 0.39 | <10 | <10 |
| N440762 | | 0.63 | 1005 | 1 | 2.01 | 11 | 2700 | 30 | 0.02 | <5 | 6 | 911 | 20 | 0.32 | <10 | <10 |
| N440763 | | 2.88 | 1385 | <1 | 1.92 | 68 | 2110 | 25 | 0.01 | <5 | 28 | 966 | 20 | 0.45 | <10 | <10 |
| N440764 | | 3.88 | 712 | 5 | 2.52 | 150 | 1190 | 8 | 0.01 | <5 | 13 | 461 | <20 | 0.33 | <10 | <10 |
| N440765 | | 1.62 | 1170 | <1 | 2.23 | 25 | 880 | 5 | 0.01 | <5 | 16 | 352 | <20 | 0.50 | <10 | <10 |
| N440766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N440767 | | 0.68 | 289 | 27 | 1.34 | 13 | 590 | 21 | 0.36 | 7 | 5 | 163 | <20 | 0.08 | <10 | <10 |
| N440768 | | 1.02 | 538 | 6 | 2.76 | 20 | 890 | 2 | 0.21 | <5 | 8 | 298 | <20 | 0.15 | <10 | <10 |
| N440769 | | 0.97 | 410 | 16 | 2.18 | 22 | 820 | 12 | 0.41 | <5 | 7 | 290 | <20 | 0.13 | <10 | <10 |
| N440770 | | 0.66 | 289 | 10 | 2.30 | 22 | 770 | 7 | 0.42 | <5 | 6 | 178 | <20 | 0.10 | <10 | <10 |
| N440771 | | 0.67 | 255 | 16 | 2.03 | 18 | 710 | 14 | 0.43 | <5 | 6 | 205 | <20 | 0.09 | <10 | <10 |
| N440772 | | 0.75 | 423 | 12 | 2.53 | 27 | 800 | 29 | 0.44 | <5 | 8 | 223 | <20 | 0.12 | <10 | <10 |
| N440773 | | 0.70 | 406 | 20 | 2.18 | 27 | 890 | 118 | 1.46 | <5 | 8 | 265 | <20 | 0.10 | <10 | <10 |
| N440774 | | 0.75 | 595 | 15 | 1.87 | 23 | 830 | 41 | 0.50 | <5 | 7 | 291 | <20 | 0.11 | <10 | <10 |
| N440775 | | 1.81 | 1400 | <1 | 2.07 | 25 | 2470 | 14 | 0.84 | <5 | 15 | 1320 | 20 | 0.28 | <10 | <10 |
| N440776 | | 1.93 | 680 | <1 | 3.83 | 26 | 1800 | 6 | 0.02 | <5 | 12 | 655 | 20 | 0.35 | <10 | <10 |
| N440777 | | 0.84 | 1310 | <1 | 2.87 | 5 | 1720 | 18 | 0.05 | <5 | 5 | 1565 | 20 | 0.12 | <10 | <10 |
| N440778 | | 1.23 | 1270 | <1 | 4.91 | 20 | 2390 | 41 | 0.05 | <5 | 16 | 972 | 20 | 0.23 | <10 | <10 |
| N440779 | | 1.27 | 1270 | <1 | 5.02 | 21 | 2460 | 41 | 0.05 | <5 | 16 | 1010 | 20 | 0.23 | <10 | <10 |
| N440780 | | 2.40 | 957 | <1 | 3.28 | 40 | 1810 | 22 | 0.02 | <5 | 14 | 1495 | 20 | 0.36 | <10 | <10 |
| N440781 | | 0.57 | 845 | <1 | 2.38 | 6 | 2760 | 31 | 1.22 | <5 | 5 | 904 | 20 | 0.14 | <10 | <10 |
| N440782 | | 0.52 | 1120 | <1 | 3.73 | 3 | 1550 | 29 | 0.16 | <5 | 5 | 874 | 20 | 0.19 | <10 | <10 |
| N440783 | | 0.82 | 916 | <1 | 0.90 | 3 | 1400 | 62 | 0.01 | <5 | 5 | 499 | 30 | 0.26 | <10 | <10 |
| N440784 | | 1.51 | 1500 | <1 | 1.55 | 21 | 3610 | 17 | 0.20 | <5 | 16 | 1345 | 30 | 0.44 | <10 | <10 |
| N440785 | | 2.70 | 1850 | <1 | 1.44 | 35 | 4440 | 28 | 0.05 | <5 | 21 | 2290 | 50 | 0.67 | <10 | <10 |
| N440786 | | 1.86 | 1440 | 1 | 3.24 | 17 | 2660 | 15 | 0.16 | <5 | 14 | 1715 | 20 | 0.35 | <10 | <10 |
| N440787 | | 0.71 | 1180 | <1 | 3.97 | 2 | 1360 | 23 | 0.13 | <5 | 5 | 1080 | 20 | 0.15 | <10 | <10 |
| N440788 | | 0.73 | 894 | <1 | 1.74 | 5 | 2660 | 19 | 0.49 | <5 | 5 | 960 | 20 | 0.17 | <10 | <10 |
| N440789 | | 3.34 | 787 | <1 | 2.33 | 142 | 580 | <2 | 0.01 | <5 | 14 | 208 | <20 | 0.39 | <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 SD14042945

| 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 |
|---|---|---|---|---|
| I275748 | | 40 | 10 | 21 |
| I275749 | | 69 | <10 | 65 |
| I275750 | | 30 | <10 | 19 |
| I275751 | | 44 | <10 | 33 |
| I275752 | | 202 | <10 | 96 |
| I275753 | | 123 | 10 | 104 |
| I275754 | | 36 | 10 | 31 |
| I275755 | | 28 | <10 | 27 |
| I275756 | | 44 | <10 | 27 |
| I275757 | | 31 | 10 | 17 |
| N440761 | | 207 | <10 | 98 |
| N440762 | | 118 | <10 | 104 |
| N440763 | | 209 | <10 | 146 |
| N440764 | | 110 | <10 | 83 |
| N440765 | | 134 | <10 | 108 |
| N440766 | | NSS | NSS | NSS |
| N440767 | | 45 | <10 | 27 |
| N440768 | | 67 | <10 | 41 |
| N440769 | | 65 | <10 | 40 |
| N440770 | | 65 | <10 | 34 |
| N440771 | | 56 | <10 | 32 |
| N440772 | | 77 | <10 | 52 |
| N440773 | | 70 | <10 | 49 |
| N440774 | | 68 | <10 | 52 |
| N440775 | | 115 | <10 | 68 |
| N440776 | | 136 | <10 | 108 |
| N440777 | | 88 | <10 | 93 |
| N440778 | | 143 | <10 | 119 |
| N440779 | | 146 | <10 | 120 |
| N440780 | | 130 | <10 | 90 |
| N440781 | | 104 | <10 | 57 |
| N440782 | | 116 | <10 | 124 |
| N440783 | | 151 | <10 | 172 |
| N440784 | | 206 | <10 | 97 |
| N440785 | | 250 | <10 | 146 |
| N440786 | | 183 | <10 | 128 |
| N440787 | | 102 | <10 | 86 |
| N440788 | | 114 | <10 | 68 |
| N440789 | | 135 | <10 | 85 |

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# CERTIFICATE OF ANALYSIS SD14042945

## 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