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 SD14042946

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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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042946

| 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 |
| I279801 | | <0.5 | 6.80 | <5 | 30 | <0.5 | <2 | 7.37 | 0.5 | 45 | 125 | 109 | 8.60 | 20 | 0.02 | <10 |
| I279802 | | <0.5 | 6.98 | 6 | 30 | <0.5 | <2 | 7.47 | 0.5 | 47 | 209 | 121 | 7.58 | 20 | 0.03 | <10 |
| I279803 | | <0.5 | 7.17 | 17 | 50 | <0.5 | <2 | 7.20 | <0.5 | 42 | 151 | 118 | 5.94 | 20 | 0.05 | <10 |
| I279804 | | <0.5 | 7.56 | 7 | 1440 | 2.1 | <2 | 0.34 | <0.5 | 11 | 43 | 7 | 2.76 | 20 | 2.70 | 30 |
| I279805 | | <0.5 | 6.50 | 9 | 70 | <0.5 | <2 | 4.24 | <0.5 | 29 | 48 | 78 | 5.49 | 20 | 0.13 | <10 |
| I279806 | | <0.5 | 9.72 | <5 | 2640 | 4.9 | <2 | 1.27 | <0.5 | 11 | 5 | 73 | 3.64 | 20 | 4.34 | 60 |
| I279807 | | <0.5 | 6.78 | 20 | 1880 | 3.0 | <2 | 2.94 | <0.5 | 23 | 77 | 63 | 5.64 | 20 | 2.86 | 70 |
| I279808 | | <0.5 | 10.90 | 6 | 2390 | 6.0 | <2 | 0.15 | <0.5 | 12 | 16 | 66 | 4.96 | 30 | 4.94 | 80 |
| I279809 | | <0.5 | 7.70 | 16 | 1560 | 3.6 | <2 | 2.50 | <0.5 | 25 | 43 | 87 | 6.20 | 20 | 4.69 | 60 |
| I279810 | | <0.5 | 8.32 | <5 | 1580 | 3.0 | 3 | 2.31 | <0.5 | 7 | 7 | 132 | 3.45 | 20 | 3.58 | 50 |
| I279811 | | <0.5 | 8.81 | <5 | 90 | 0.6 | 2 | 1.79 | <0.5 | 28 | 88 | 53 | 7.55 | 20 | 0.12 | 10 |
| I279812 | | <0.5 | 5.63 | 78 | 3770 | 6.7 | <2 | 4.87 | <0.5 | 36 | 501 | 31 | 7.02 | 20 | 3.14 | 180 |
| I279813 | | <0.5 | 6.02 | <5 | 90 | <0.5 | 2 | 4.32 | <0.5 | 18 | 77 | 33 | 3.27 | 20 | 0.48 | 10 |
| I279814 | | <0.5 | 7.17 | <5 | 60 | <0.5 | <2 | 4.65 | <0.5 | 31 | 115 | 87 | 6.65 | 20 | 0.06 | <10 |
| I279815 | | <0.5 | 6.71 | 6 | 130 | <0.5 | <2 | 6.16 | <0.5 | 40 | 126 | 36 | 8.60 | 20 | 0.26 | 10 |
| I279816 | | <0.5 | 7.69 | 6 | 130 | <0.5 | <2 | 3.80 | <0.5 | 28 | 46 | 58 | 5.25 | 20 | 0.61 | 10 |
| I279817 | | <0.5 | 8.08 | <5 | 90 | <0.5 | <2 | 6.64 | <0.5 | 50 | 223 | 112 | 7.69 | 20 | 0.11 | <10 |
| I279818 | | <0.5 | 8.11 | <5 | 390 | 0.7 | <2 | 4.18 | <0.5 | 21 | 66 | 34 | 4.91 | 20 | 1.33 | 10 |
| I279819 | | <0.5 | 8.42 | <5 | 20 | 0.6 | <2 | 6.82 | <0.5 | 41 | 93 | 56 | 8.10 | 30 | 0.05 | 10 |
| I279820 | | <0.5 | 7.91 | 13 | 70 | 0.6 | 3 | 6.07 | <0.5 | 27 | 19 | 38 | 6.11 | 20 | 0.54 | 10 |
| I279821 | | <0.5 | 7.42 | 5 | 40 | <0.5 | 3 | 6.45 | <0.5 | 44 | 122 | 100 | 8.23 | 20 | 0.04 | <10 |
| I279822 | | <0.5 | 7.57 | <5 | 50 | <0.5 | <2 | 4.33 | <0.5 | 38 | 117 | 76 | 8.05 | 20 | 0.03 | <10 |
| I279823 | | <0.5 | 7.55 | 5 | 1280 | 2.6 | <2 | 1.95 | <0.5 | 10 | 31 | 2 | 2.37 | 20 | 3.18 | 20 |
| I279824 | | <0.5 | 7.65 | 14 | 50 | <0.5 | <2 | 6.99 | <0.5 | 45 | 254 | 80 | 7.72 | 20 | 0.40 | <10 |
| I279825 | | <0.5 | 9.51 | 12 | 3250 | 3.8 | <2 | 1.30 | <0.5 | 12 | 6 | 104 | 3.74 | 20 | 3.96 | 70 |
| I279826 | | <0.5 | 7.33 | <5 | 50 | <0.5 | 2 | 5.96 | <0.5 | 40 | 237 | 84 | 7.14 | 20 | 0.06 | <10 |
| I279827 | | <0.5 | 8.71 | <5 | 120 | <0.5 | 2 | 4.84 | <0.5 | 32 | 92 | 53 | 6.27 | 20 | 0.38 | 10 |
| I279828 | | <0.5 | 7.80 | <5 | 170 | 0.6 | <2 | 2.99 | <0.5 | 32 | 114 | 4 | 5.08 | 20 | 0.51 | 10 |
| I279829 | | <0.5 | 9.03 | 10 | 130 | <0.5 | 2 | 8.89 | <0.5 | 29 | 180 | 25 | 4.45 | 20 | 0.32 | 10 |
| I279830 | | <0.5 | 7.13 | 11 | 2030 | 2.2 | <2 | 1.72 | <0.5 | 8 | 39 | 9 | 2.55 | 20 | 2.73 | 20 |
| I279831 | | <0.5 | 7.47 | 5 | 1350 | 3.1 | <2 | 1.74 | <0.5 | 9 | 42 | 3 | 2.74 | 20 | 3.31 | 20 |
| I279832 | | <0.5 | 7.54 | 5 | 40 | <0.5 | <2 | 4.78 | <0.5 | 40 | 167 | 107 | 8.86 | 20 | 0.03 | 10 |
| I279833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279834 | | <0.5 | 6.92 | <5 | 80 | <0.5 | <2 | 5.68 | <0.5 | 43 | 180 | 95 | 8.22 | 20 | 0.10 | <10 |
| I279835 | | <0.5 | 6.40 | <5 | 40 | <0.5 | <2 | 5.67 | <0.5 | 38 | 59 | 110 | 6.80 | 20 | 0.07 | <10 |
| I279836 | | <0.5 | 6.92 | <5 | 80 | <0.5 | 2 | 4.64 | <0.5 | 46 | 280 | 104 | 7.60 | 10 | 0.12 | <10 |
| I279837 | | <0.5 | 6.57 | 63 | 190 | 0.5 | 3 | 7.00 | <0.5 | 60 | 211 | 146 | 7.59 | 20 | 0.48 | 10 |
| I279838 | | <0.5 | 7.73 | <5 | 10 | 0.8 | <2 | 0.40 | <0.5 | 38 | 224 | 1 | 8.26 | 20 | 0.03 | 20 |
| I279901 | | <0.5 | 8.00 | <5 | 2140 | 1.4 | 5 | 1.69 | <0.5 | 9 | 50 | 23 | 2.57 | 20 | 4.32 | 40 |
| I279902 | | <0.5 | 8.10 | <5 | 900 | 1.6 | 2 | 0.32 | <0.5 | 2 | 10 | 6 | 0.95 | 20 | 5.34 | 10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042946

| 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 |
| I279801 | | 2.59 | 1345 | <1 | 0.34 | 70 | 450 | <2 | 0.13 | <5 | 40 | 180 | <20 | 0.79 | <10 | <10 |
| I279802 | | 4.05 | 1435 | <1 | 1.69 | 113 | 200 | 3 | 0.09 | <5 | 39 | 139 | <20 | 0.49 | <10 | <10 |
| I279803 | | 3.52 | 1250 | <1 | 1.38 | 90 | 380 | 2 | 0.03 | <5 | 40 | 126 | <20 | 0.67 | <10 | <10 |
| I279804 | | 0.97 | 343 | <1 | 3.99 | 13 | 760 | 22 | <0.01 | <5 | 8 | 608 | <20 | 0.16 | <10 | <10 |
| I279805 | | 1.90 | 1065 | <1 | 1.70 | 30 | 510 | <2 | 0.02 | <5 | 40 | 171 | <20 | 0.80 | <10 | <10 |
| I279806 | | 0.39 | 976 | <1 | 2.18 | 2 | 1290 | 28 | 0.01 | <5 | 4 | 909 | 20 | 0.22 | <10 | <10 |
| I279807 | | 1.71 | 1115 | <1 | 3.29 | 33 | 2680 | 27 | 0.03 | <5 | 17 | 868 | 20 | 0.38 | <10 | <10 |
| I279808 | | 0.30 | 439 | <1 | 2.97 | 10 | 1190 | 30 | 0.01 | <5 | 8 | 291 | 30 | 0.32 | <10 | <10 |
| I279809 | | 1.01 | 1675 | <1 | 1.79 | 19 | 2350 | 67 | 0.01 | 7 | 14 | 689 | 20 | 0.27 | <10 | <10 |
| I279810 | | 0.68 | 1165 | <1 | 4.36 | 5 | 1150 | 39 | 0.01 | 5 | 3 | 790 | 20 | 0.19 | <10 | <10 |
| I279811 | | 3.96 | 951 | <1 | 3.73 | 102 | 570 | 9 | 0.22 | <5 | 20 | 140 | <20 | 0.52 | <10 | <10 |
| I279812 | | 5.58 | 1440 | <1 | 1.95 | 160 | 2220 | 47 | 0.03 | <5 | 23 | 5960 | 60 | 0.56 | <10 | <10 |
| I279813 | | 2.04 | 581 | <1 | 0.94 | 98 | 410 | 10 | 0.01 | <5 | 12 | 101 | <20 | 0.33 | <10 | <10 |
| I279814 | | 2.02 | 1300 | <1 | 3.01 | 60 | 410 | 3 | 0.10 | <5 | 35 | 78 | <20 | 0.72 | <10 | <10 |
| I279815 | | 3.81 | 1285 | <1 | 2.17 | 80 | 390 | 8 | <0.01 | <5 | 37 | 156 | <20 | 0.64 | <10 | <10 |
| I279816 | | 2.05 | 828 | <1 | 1.72 | 39 | 640 | 3 | 0.03 | <5 | 23 | 277 | <20 | 0.58 | <10 | <10 |
| I279817 | | 2.38 | 1330 | <1 | 1.62 | 113 | 300 | 5 | 0.01 | <5 | 42 | 155 | <20 | 0.72 | <10 | <10 |
| I279818 | | 1.63 | 805 | <1 | 1.34 | 48 | 610 | 12 | <0.01 | <5 | 14 | 319 | <20 | 0.40 | <10 | <10 |
| I279819 | | 4.11 | 1335 | <1 | 1.23 | 196 | 630 | 28 | <0.01 | <5 | 19 | 527 | <20 | 0.76 | <10 | <10 |
| I279820 | | 1.72 | 837 | <1 | 1.19 | 52 | 490 | 15 | 1.33 | <5 | 15 | 91 | <20 | 0.47 | <10 | <10 |
| I279821 | | 2.62 | 1505 | <1 | 1.69 | 75 | 450 | <2 | 0.13 | <5 | 39 | 93 | <20 | 0.83 | <10 | <10 |
| I279822 | | 3.20 | 1520 | <1 | 2.02 | 68 | 410 | 7 | <0.01 | <5 | 37 | 91 | <20 | 0.78 | <10 | <10 |
| I279823 | | 0.78 | 509 | <1 | 3.65 | 12 | 860 | 18 | 0.05 | <5 | 7 | 722 | <20 | 0.14 | <10 | <10 |
| I279824 | | 5.18 | 1200 | <1 | 1.24 | 148 | 210 | 4 | 0.07 | <5 | 33 | 102 | <20 | 0.44 | <10 | <10 |
| I279825 | | 0.48 | 1110 | <1 | 4.19 | 5 | 1250 | 13 | 0.05 | <5 | 4 | 765 | 30 | 0.25 | <10 | <10 |
| I279826 | | 4.69 | 1240 | <1 | 1.21 | 98 | 190 | <2 | 0.04 | <5 | 35 | 156 | <20 | 0.42 | <10 | <10 |
| I279827 | | 2.78 | 1030 | <1 | 3.47 | 107 | 620 | 7 | 0.01 | <5 | 24 | 216 | <20 | 0.59 | <10 | <10 |
| I279828 | | 3.67 | 909 | <1 | 2.82 | 167 | 450 | 2 | <0.01 | <5 | 15 | 344 | <20 | 0.40 | <10 | <10 |
| I279829 | | 1.07 | 819 | <1 | 0.84 | 103 | 700 | 5 | 0.17 | <5 | 25 | 154 | <20 | 0.75 | <10 | <10 |
| I279830 | | 0.72 | 524 | <1 | 3.61 | 13 | 830 | 18 | 0.07 | <5 | 7 | 588 | <20 | 0.16 | <10 | <10 |
| I279831 | | 0.82 | 629 | <1 | 3.25 | 12 | 940 | 13 | 0.04 | <5 | 8 | 669 | <20 | 0.16 | <10 | <10 |
| I279832 | | 4.21 | 1240 | <1 | 1.54 | 99 | 420 | <2 | 0.08 | <5 | 37 | 143 | <20 | 0.65 | <10 | <10 |
| I279833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279834 | | 4.14 | 1510 | <1 | 2.10 | 97 | 350 | 9 | 0.08 | <5 | 34 | 92 | <20 | 0.63 | <10 | <10 |
| I279835 | | 4.38 | 1230 | <1 | 1.68 | 65 | 130 | 16 | 0.03 | <5 | 36 | 57 | <20 | 0.32 | <10 | <10 |
| I279836 | | 4.76 | 1240 | <1 | 2.47 | 128 | 350 | 14 | 0.08 | <5 | 32 | 157 | <20 | 0.61 | <10 | <10 |
| I279837 | | 5.14 | 1305 | <1 | 1.80 | 240 | 390 | 6 | 0.07 | <5 | 31 | 380 | <20 | 0.54 | <10 | <10 |
| I279838 | | 5.22 | 462 | <1 | 2.64 | 80 | 1820 | 4 | <0.01 | <5 | 19 | 96 | <20 | 0.40 | <10 | <10 |
| I279901 | | 0.96 | 560 | <1 | 4.38 | 21 | 1000 | 21 | <0.01 | <5 | 5 | 1580 | <20 | 0.22 | <10 | <10 |
| I279902 | | 0.18 | 131 | <1 | 4.64 | 5 | 70 | 20 | 0.01 | <5 | 1 | 469 | <20 | 0.11 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042946

| 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 |
|---|---|---|---|---|
| I279801 | | 363 | <10 | 85 |
| I279802 | | 288 | <10 | 69 |
| I279803 | | 334 | <10 | 79 |
| I279804 | | 71 | <10 | 60 |
| I279805 | | 407 | <10 | 66 |
| I279806 | | 95 | <10 | 106 |
| I279807 | | 158 | <10 | 106 |
| I279808 | | 157 | <10 | 127 |
| I279809 | | 193 | <10 | 123 |
| I279810 | | 76 | 10 | 83 |
| I279811 | | 167 | <10 | 101 |
| I279812 | | 201 | <10 | 150 |
| I279813 | | 99 | <10 | 50 |
| I279814 | | 310 | <10 | 70 |
| I279815 | | 326 | <10 | 65 |
| I279816 | | 214 | <10 | 68 |
| I279817 | | 369 | <10 | 74 |
| I279818 | | 110 | <10 | 68 |
| I279819 | | 242 | <10 | 106 |
| I279820 | | 150 | <10 | 78 |
| I279821 | | 368 | <10 | 86 |
| I279822 | | 338 | <10 | 91 |
| I279823 | | 84 | <10 | 56 |
| I279824 | | 250 | <10 | 69 |
| I279825 | | 92 | <10 | 101 |
| I279826 | | 241 | <10 | 67 |
| I279827 | | 198 | <10 | 113 |
| I279828 | | 152 | <10 | 80 |
| I279829 | | 255 | <10 | 87 |
| I279830 | | 64 | <10 | 53 |
| I279831 | | 81 | <10 | 73 |
| I279832 | | 307 | <10 | 102 |
| I279833 | | NSS | NSS | NSS |
| I279834 | | 301 | <10 | 79 |
| I279835 | | 221 | <10 | 69 |
| I279836 | | 275 | <10 | 77 |
| I279837 | | 239 | <10 | 83 |
| I279838 | | 154 | <10 | 97 |
| I279901 | | 66 | <10 | 63 |
| I279902 | | 20 | <10 | 11 |

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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 |
| I279903 | | <0.5 | 8.11 | <5 | 2250 | 1.6 | <2 | 1.55 | <0.5 | 8 | 46 | 28 | 2.38 | 20 | 4.48 | 40 |
| I279904 | | <0.5 | 7.88 | <5 | 2580 | 1.5 | <2 | 1.62 | <0.5 | 8 | 47 | 19 | 2.39 | 20 | 4.27 | 30 |
| I279905 | | <0.5 | 7.77 | <5 | 2290 | 1.4 | <2 | 1.80 | <0.5 | 9 | 54 | 17 | 2.58 | 20 | 4.16 | 40 |
| I279906 | | <0.5 | 8.14 | 5 | 2450 | 1.3 | 2 | 1.68 | <0.5 | 8 | 48 | 17 | 2.44 | 20 | 4.29 | 40 |
| I279907 | | <0.5 | 8.25 | <5 | 2490 | 1.5 | <2 | 1.38 | <0.5 | 7 | 42 | 34 | 2.20 | 20 | 4.65 | 30 |
| I279908 | | <0.5 | 8.28 | <5 | 2220 | 1.5 | <2 | 1.24 | <0.5 | 8 | 50 | 10 | 2.31 | 20 | 4.81 | 50 |
| I279909 | | <0.5 | 7.35 | <5 | 2380 | 1.7 | <2 | 1.75 | <0.5 | 8 | 53 | 17 | 2.65 | 20 | 4.24 | 40 |
| I279910 | | <0.5 | 7.97 | <5 | 2160 | 1.7 | <2 | 1.65 | <0.5 | 8 | 54 | 13 | 2.64 | 20 | 4.37 | 40 |
| I279911 | | <0.5 | 7.91 | <5 | 2070 | 1.7 | <2 | 1.62 | <0.5 | 9 | 53 | 28 | 2.69 | 20 | 4.29 | 40 |
| I279912 | | <0.5 | 8.27 | <5 | 2240 | 1.6 | <2 | 1.58 | <0.5 | 8 | 42 | 13 | 2.37 | 20 | 4.69 | 40 |
| I279913 | | <0.5 | 8.73 | 7 | 2290 | 1.7 | <2 | 1.22 | <0.5 | 6 | 35 | 16 | 2.15 | 20 | 4.80 | 40 |
| I279914 | | <0.5 | 8.16 | <5 | 2330 | 2.1 | <2 | 1.86 | <0.5 | 9 | 53 | 16 | 2.89 | 20 | 4.60 | 50 |
| I279915 | | <0.5 | 8.19 | <5 | 2080 | 1.7 | <2 | 1.56 | <0.5 | 7 | 40 | 20 | 2.36 | 20 | 4.40 | 40 |
| I279916 | | 0.5 | 6.60 | <5 | 2560 | 3.9 | <2 | 5.03 | <0.5 | 23 | 138 | 145 | 5.16 | 20 | 3.38 | 80 |
| I279917 | | <0.5 | 8.10 | <5 | 2250 | 1.8 | <2 | 1.91 | <0.5 | 8 | 52 | 18 | 2.70 | 20 | 4.31 | 50 |
| I279918 | | <0.5 | 8.58 | <5 | 2200 | 1.4 | <2 | 0.95 | <0.5 | 4 | 34 | 28 | 1.97 | 20 | 4.76 | 30 |
| I279919 | | <0.5 | 8.01 | <5 | 1960 | 1.2 | 2 | 0.98 | <0.5 | 6 | 38 | 35 | 1.83 | 20 | 4.68 | 30 |
| I279920 | | <0.5 | 7.88 | <5 | 1940 | 1.3 | <2 | 1.14 | <0.5 | 5 | 36 | 15 | 1.83 | 20 | 4.45 | 30 |

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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 |
| I279903 | | 0.89 | 510 | <1 | 4.41 | 20 | 900 | 29 | 0.01 | <5 | 5 | 1590 | <20 | 0.20 | <10 | <10 |
| I279904 | | 0.93 | 457 | <1 | 4.21 | 21 | 920 | 20 | 0.01 | <5 | 5 | 1915 | <20 | 0.17 | <10 | <10 |
| I279905 | | 0.97 | 559 | 1 | 4.26 | 23 | 960 | 23 | 0.01 | <5 | 6 | 1645 | <20 | 0.21 | <10 | <10 |
| I279906 | | 0.90 | 591 | <1 | 4.43 | 22 | 920 | 23 | <0.01 | <5 | 5 | 1830 | <20 | 0.20 | <10 | <10 |
| I279907 | | 0.84 | 446 | <1 | 4.35 | 18 | 820 | 26 | 0.01 | 5 | 4 | 1735 | <20 | 0.18 | <10 | <10 |
| I279908 | | 1.04 | 544 | <1 | 4.51 | 24 | 980 | 20 | <0.01 | <5 | 6 | 920 | <20 | 0.24 | <10 | <10 |
| I279909 | | 0.97 | 584 | <1 | 4.46 | 22 | 1080 | 21 | <0.01 | <5 | 5 | 1855 | <20 | 0.23 | <10 | <10 |
| I279910 | | 0.92 | 583 | <1 | 4.64 | 20 | 920 | 19 | 0.01 | <5 | 5 | 1640 | <20 | 0.21 | <10 | <10 |
| I279911 | | 0.92 | 686 | <1 | 4.51 | 22 | 1000 | 19 | <0.01 | <5 | 6 | 1535 | <20 | 0.21 | <10 | <10 |
| I279912 | | 0.84 | 520 | <1 | 4.52 | 16 | 910 | 19 | <0.01 | <5 | 5 | 1560 | <20 | 0.21 | <10 | <10 |
| I279913 | | 0.70 | 438 | <1 | 4.84 | 16 | 800 | 24 | <0.01 | <5 | 4 | 1645 | <20 | 0.19 | <10 | <10 |
| I279914 | | 1.02 | 629 | <1 | 4.61 | 21 | 1070 | 24 | 0.01 | <5 | 6 | 1735 | <20 | 0.23 | <10 | <10 |
| I279915 | | 0.79 | 511 | <1 | 4.67 | 16 | 870 | 23 | 0.01 | <5 | 5 | 1560 | <20 | 0.18 | <10 | <10 |
| I279916 | | 3.06 | 1615 | <1 | 3.43 | 53 | 2540 | 16 | 0.01 | <5 | 19 | 1825 | <20 | 0.36 | <10 | <10 |
| I279917 | | 1.02 | 613 | <1 | 4.61 | 20 | 1030 | 23 | <0.01 | <5 | 6 | 1700 | <20 | 0.23 | <10 | <10 |
| I279918 | | 0.64 | 357 | <1 | 4.61 | 12 | 620 | 24 | <0.01 | <5 | 4 | 1450 | <20 | 0.18 | <10 | <10 |
| I279919 | | 0.64 | 383 | <1 | 4.36 | 15 | 620 | 23 | 0.01 | 5 | 3 | 1245 | <20 | 0.17 | <10 | <10 |
| I279920 | | 0.64 | 373 | <1 | 4.55 | 14 | 640 | 21 | <0.01 | <5 | 3 | 1300 | <20 | 0.16 | <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 SD14042946

| 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 |
|---|---|---|---|---|
| I279903 | | 62 | <10 | 60 |
| I279904 | | 59 | <10 | 50 |
| I279905 | | 67 | <10 | 65 |
| I279906 | | 61 | <10 | 59 |
| I279907 | | 55 | <10 | 48 |
| I279908 | | 65 | <10 | 69 |
| I279909 | | 72 | <10 | 72 |
| I279910 | | 68 | <10 | 69 |
| I279911 | | 68 | <10 | 66 |
| I279912 | | 59 | <10 | 55 |
| I279913 | | 51 | <10 | 50 |
| I279914 | | 73 | <10 | 77 |
| I279915 | | 58 | <10 | 62 |
| I279916 | | 145 | <10 | 157 |
| I279917 | | 70 | <10 | 69 |
| I279918 | | 50 | <10 | 37 |
| I279919 | | 49 | <10 | 41 |
| I279920 | | 45 | <10 | 39 |

***** 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 SD14042946

## 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