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: 24-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042827

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 327 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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| L179591 | | 0.7 | 7.82 | 69 | 1890 | 1.7 | 3 | 1.95 | <0.5 | 12 | 85 | 17 | 3.21 | 20 | 2.96 | 40 |
| L179592 | | 0.5 | 8.05 | 136 | 280 | 1.9 | 8 | 1.92 | <0.5 | 13 | 80 | 26 | 3.49 | 20 | 3.09 | 30 |
| L179593 | | <0.5 | 7.54 | 35 | 1620 | 1.5 | <2 | 1.52 | 3.5 | 9 | 57 | 33 | 2.18 | 20 | 2.59 | 40 |
| L179594 | | 0.5 | 7.50 | 47 | 2260 | 2.1 | 3 | 2.85 | <0.5 | 17 | 115 | 95 | 4.70 | 20 | 2.19 | 50 |
| L179595 | | <0.5 | 7.17 | 32 | 1150 | 1.3 | 2 | 2.06 | <0.5 | 9 | 57 | 19 | 2.32 | 20 | 2.45 | 30 |
| L179596 | | <0.5 | 7.52 | 12 | 2000 | 1.8 | <2 | 2.55 | <0.5 | 9 | 57 | 6 | 2.49 | 20 | 2.51 | 30 |
| L179597 | | <0.5 | 7.65 | 23 | 1990 | 1.7 | <2 | 1.32 | <0.5 | 6 | 39 | 4 | 2.11 | 20 | 2.16 | 40 |
| L179598 | | <0.5 | 7.48 | 64 | 2990 | 1.8 | 2 | 2.14 | <0.5 | 10 | 54 | 9 | 2.70 | 20 | 2.19 | 30 |
| L179599 | | <0.5 | 8.24 | <5 | 150 | 3.9 | 2 | 2.62 | <0.5 | 22 | 78 | 46 | 3.53 | 20 | 4.34 | 10 |
| L179600 | | <0.5 | 8.31 | 60 | 2190 | 2.1 | <2 | 1.68 | <0.5 | 15 | 114 | 9 | 3.69 | 20 | 2.14 | 50 |
| N423780 | | 2.3 | 7.37 | 51 | 910 | 2.0 | 2 | 3.05 | <0.5 | 23 | 89 | 23 | 4.39 | 20 | 3.10 | 60 |
| N423781 | | <0.5 | 7.94 | 26 | 4250 | 6.0 | 3 | 3.45 | <0.5 | 21 | 20 | 207 | 5.33 | 30 | 5.45 | 80 |
| N423782 | | <0.5 | 8.69 | 18 | 2650 | 4.7 | 3 | 2.60 | <0.5 | 16 | 24 | 85 | 4.36 | 20 | 5.98 | 60 |
| N423783 | | <0.5 | 8.07 | 5 | 3400 | 1.8 | 2 | 4.78 | <0.5 | 28 | 106 | 150 | 6.45 | 20 | 6.17 | 80 |
| N423784 | | <0.5 | 7.66 | 13 | 2210 | 2.0 | 2 | 4.17 | <0.5 | 26 | 87 | 102 | 5.90 | 20 | 5.13 | 70 |
| N423785 | | <0.5 | 7.72 | 7 | 1710 | 2.2 | 6 | 4.51 | <0.5 | 29 | 101 | 138 | 6.34 | 20 | 3.68 | 80 |
| N423786 | | <0.5 | 6.80 | 5 | 1630 | 2.0 | <2 | 6.88 | <0.5 | 30 | 54 | 82 | 6.10 | 20 | 3.29 | 60 |
| N423787 | | <0.5 | 7.08 | 5 | 720 | 1.5 | <2 | 2.37 | <0.5 | 26 | 166 | 47 | 4.13 | 20 | 1.88 | 20 |
| N423788 | | <0.5 | 7.47 | <5 | 2020 | 2.3 | <2 | 4.19 | <0.5 | 32 | 71 | 27 | 6.75 | 20 | 5.55 | 60 |
| N423789 | | <0.5 | 7.61 | 7 | 1070 | 3.4 | <2 | 0.32 | <0.5 | 3 | 57 | 5 | 0.67 | 20 | 2.70 | 20 |
| N423790 | | <0.5 | 7.45 | 35 | 2110 | 3.2 | 4 | 4.77 | <0.5 | 28 | 92 | 175 | 5.77 | 20 | 3.60 | 80 |
| N423791 | | <0.5 | 7.74 | 5 | 2080 | 3.3 | <2 | 3.02 | <0.5 | 23 | 94 | 207 | 5.84 | 20 | 4.43 | 50 |
| N423792 | | <0.5 | 8.76 | 22 | 3150 | 3.4 | 3 | 2.41 | <0.5 | 12 | 29 | 110 | 4.45 | 20 | 6.21 | 70 |
| N423793 | | <0.5 | 9.98 | 10 | 7760 | 18.5 | 4 | 1.43 | <0.5 | 6 | 5 | 200 | 5.21 | 30 | 4.66 | 220 |
| N423794 | | <0.5 | 7.55 | 9 | 2200 | 1.8 | 3 | 3.52 | <0.5 | 12 | 101 | 34 | 3.83 | 20 | 1.90 | 50 |
| N423795 | | <0.5 | 8.38 | 77 | 1340 | 1.9 | 2 | 1.96 | <0.5 | 18 | 108 | 5 | 4.83 | 20 | 1.77 | 70 |
| N423796 | | <0.5 | 7.75 | 85 | 1260 | 1.9 | 3 | 4.42 | <0.5 | 20 | 80 | 31 | 4.60 | 20 | 2.36 | 70 |
| N423797 | | <0.5 | 7.33 | 154 | 740 | 1.9 | 2 | 3.96 | <0.5 | 19 | 70 | 34 | 4.26 | 20 | 2.42 | 70 |
| N423798 | | <0.5 | 7.14 | 139 | 930 | 1.7 | 4 | 3.89 | <0.5 | 19 | 75 | 40 | 4.26 | 20 | 2.14 | 60 |
| N423799 | | <0.5 | 8.21 | <5 | 140 | 4.6 | 4 | 2.69 | <0.5 | 24 | 76 | 37 | 3.61 | 30 | 4.42 | 10 |
| N423800 | | <0.5 | 6.73 | 121 | 1340 | 1.5 | <2 | 4.21 | <0.5 | 20 | 30 | 42 | 3.97 | 20 | 1.91 | 50 |
| N423801 | | <0.5 | 8.33 | 7 | 1700 | 2.0 | 3 | 1.47 | <0.5 | 13 | 53 | 58 | 3.18 | 20 | 2.43 | 40 |
| N423802 | | <0.5 | 7.99 | 13 | 2220 | 2.0 | <2 | 2.06 | <0.5 | 8 | 83 | 42 | 3.16 | 20 | 2.45 | 40 |
| N423803 | | <0.5 | 8.22 | 29 | 2600 | 1.8 | 4 | 0.42 | <0.5 | 5 | 44 | 12 | 2.31 | 20 | 2.75 | 40 |
| N423804 | | 1.1 | 7.98 | 24 | 3480 | 1.6 | 4 | 1.03 | <0.5 | 6 | 42 | 4 | 2.37 | 20 | 2.19 | 40 |
| N423805 | | 13.7 | 7.55 | 543 | 690 | 1.1 | 3 | 0.57 | 2.4 | 6 | 44 | 952 | 2.34 | 10 | 3.17 | 40 |
| N423806 | | 9.9 | 7.52 | 29 | 870 | 1.0 | 2 | 0.40 | <0.5 | 6 | 45 | 10 | 2.39 | 20 | 3.97 | 40 |
| N423807 | | 0.6 | 7.96 | 26 | 2240 | 1.7 | <2 | 0.95 | <0.5 | 7 | 43 | 23 | 2.06 | 20 | 2.90 | 40 |
| N423808 | | <0.5 | 7.11 | 12 | 1730 | 1.8 | <2 | 1.90 | <0.5 | 7 | 37 | 3 | 2.01 | 20 | 1.86 | 30 |
| N423809 | | <0.5 | 7.52 | 50 | 2110 | 1.7 | <2 | 1.73 | <0.5 | 7 | 40 | 5 | 2.09 | 20 | 2.05 | 40 |

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

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| L179591 | | 1.14 | 1150 | 1 | 2.97 | 34 | 1040 | 103 | 1.39 | <5 | 10 | 910 | <20 | 0.25 | <10 | <10 |
| L179592 | | 0.88 | 482 | 2 | 3.01 | 30 | 1180 | 82 | 2.42 | <5 | 12 | 1140 | <20 | 0.18 | <10 | <10 |
| L179593 | | 0.75 | 739 | 4 | 3.20 | 24 | 870 | 126 | 0.93 | <5 | 8 | 899 | <20 | 0.20 | <10 | <10 |
| L179594 | | 2.02 | 1015 | 1 | 2.93 | 41 | 1940 | 156 | 1.36 | <5 | 14 | 1340 | 20 | 0.34 | <10 | <10 |
| L179595 | | 0.75 | 620 | 1 | 3.99 | 22 | 820 | 34 | 1.31 | <5 | 6 | 928 | <20 | 0.16 | <10 | <10 |
| L179596 | | 1.15 | 892 | <1 | 2.90 | 25 | 860 | 19 | 1.36 | <5 | 7 | 1515 | <20 | 0.13 | <10 | <10 |
| L179597 | | 0.60 | 433 | 2 | 3.65 | 17 | 780 | 100 | 1.09 | <5 | 5 | 717 | <20 | 0.12 | <10 | <10 |
| L179598 | | 1.12 | 613 | 1 | 4.06 | 26 | 890 | 10 | 0.93 | 5 | 7 | 574 | <20 | 0.18 | <10 | <10 |
| L179599 | | 2.04 | 504 | 1 | 3.34 | 88 | 1140 | 36 | 0.01 | <5 | 6 | 357 | <20 | 0.64 | <10 | <10 |
| L179600 | | 0.87 | 818 | 1 | 4.19 | 38 | 1400 | 14 | 1.29 | <5 | 12 | 1080 | <20 | 0.17 | <10 | <10 |
| N423780 | | 1.95 | 899 | <1 | 2.54 | 57 | 1980 | 18 | 2.74 | 6 | 12 | 838 | <20 | 0.34 | <10 | <10 |
| N423781 | | 1.05 | 1425 | <1 | 2.59 | 15 | 2770 | 30 | 0.05 | <5 | 12 | 1605 | 30 | 0.43 | <10 | <10 |
| N423782 | | 1.19 | 981 | <1 | 2.28 | 10 | 1910 | 20 | 0.04 | 9 | 7 | 1665 | 30 | 0.29 | <10 | <10 |
| N423783 | | 2.15 | 1030 | <1 | 1.47 | 28 | 3030 | 15 | 0.01 | 6 | 22 | 1500 | 20 | 0.50 | <10 | <10 |
| N423784 | | 2.45 | 1085 | 1 | 2.53 | 26 | 2530 | 37 | 0.01 | 22 | 18 | 1370 | 20 | 0.47 | <10 | <10 |
| N423785 | | 2.28 | 1410 | 1 | 3.42 | 25 | 2620 | 10 | 0.02 | 9 | 20 | 1170 | 20 | 0.50 | <10 | <10 |
| N423786 | | 2.84 | 1330 | 1 | 2.86 | 28 | 2100 | 22 | 0.05 | 6 | 23 | 1325 | 20 | 0.43 | <10 | <10 |
| N423787 | | 1.22 | 848 | 1 | 2.99 | 93 | 900 | 2 | 0.07 | <5 | 17 | 294 | <20 | 0.30 | <10 | <10 |
| N423788 | | 1.82 | 1455 | <1 | 0.88 | 39 | 1950 | 26 | 0.02 | 12 | 21 | 1260 | 20 | 0.40 | <10 | <10 |
| N423789 | | 0.23 | 99 | <1 | 1.41 | 20 | 320 | 10 | 0.01 | <5 | 3 | 260 | <20 | 0.11 | <10 | <10 |
| N423790 | | 2.27 | 1150 | <1 | 2.99 | 23 | 2500 | 11 | 0.04 | 62 | 20 | 1745 | 20 | 0.43 | <10 | <10 |
| N423791 | | 1.42 | 1085 | <1 | 2.42 | 26 | 2470 | 12 | 0.05 | 12 | 16 | 861 | 20 | 0.39 | <10 | <10 |
| N423792 | | 1.08 | 927 | <1 | 2.63 | 10 | 2170 | 16 | 0.01 | <5 | 7 | 1790 | 30 | 0.32 | <10 | <10 |
| N423793 | | 0.61 | 1085 | <1 | 0.83 | 6 | 2290 | 25 | 0.17 | <5 | 4 | 988 | 80 | 0.88 | 10 | <10 |
| N423794 | | 2.56 | 720 | <1 | 3.07 | 61 | 1730 | 5 | 0.09 | <5 | 11 | 928 | <20 | 0.35 | <10 | <10 |
| N423795 | | 2.37 | 523 | <1 | 3.96 | 59 | 2230 | 10 | 0.82 | <5 | 13 | 759 | 20 | 0.42 | <10 | <10 |
| N423796 | | 2.45 | 825 | <1 | 2.60 | 53 | 2000 | 16 | 1.87 | <5 | 12 | 1070 | 20 | 0.38 | <10 | <10 |
| N423797 | | 2.12 | 730 | <1 | 2.92 | 47 | 2210 | 27 | 2.68 | <5 | 11 | 950 | 20 | 0.37 | <10 | <10 |
| N423798 | | 2.12 | 1090 | <1 | 3.26 | 47 | 2080 | 29 | 2.24 | <5 | 10 | 1065 | 20 | 0.35 | <10 | <10 |
| N423799 | | 2.09 | 513 | 1 | 3.66 | 85 | 1240 | 39 | 0.02 | <5 | 6 | 351 | <20 | 0.66 | <10 | <10 |
| N423800 | | 1.66 | 758 | <1 | 2.32 | 28 | 2050 | 16 | 1.51 | 7 | 10 | 1090 | <20 | 0.23 | <10 | <10 |
| N423801 | | 0.79 | 449 | 1 | 3.86 | 26 | 800 | 17 | 1.58 | <5 | 7 | 702 | <20 | 0.12 | <10 | <10 |
| N423802 | | 1.10 | 977 | <1 | 4.03 | 26 | 990 | 8 | 0.22 | <5 | 10 | 461 | <20 | 0.27 | <10 | <10 |
| N423803 | | 0.36 | 339 | <1 | 3.65 | 16 | 630 | 36 | 0.43 | <5 | 6 | 466 | <20 | 0.13 | <10 | <10 |
| N423804 | | 0.45 | 615 | <1 | 3.96 | 18 | 760 | 10 | 0.86 | <5 | 5 | 536 | <20 | 0.11 | <10 | <10 |
| N423805 | | 0.42 | 294 | 1 | 3.59 | 15 | 700 | 76 | 1.55 | 305 | 5 | 920 | <20 | 0.08 | <10 | <10 |
| N423806 | | 0.22 | 265 | 23 | 3.19 | 13 | 700 | 94 | 1.47 | <5 | 5 | 792 | <20 | 0.09 | <10 | <10 |
| N423807 | | 0.44 | 656 | 1 | 3.28 | 19 | 770 | 21 | 0.88 | 5 | 6 | 571 | <20 | 0.12 | <10 | <10 |
| N423808 | | 0.73 | 838 | <1 | 3.79 | 18 | 720 | 21 | 0.65 | <5 | 5 | 932 | <20 | 0.10 | <10 | <10 |
| N423809 | | 0.61 | 533 | <1 | 3.58 | 18 | 790 | 45 | 0.63 | <5 | 5 | 661 | <20 | 0.12 | <10 | <10 |

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| L179591 | | 86 | <10 | 120 |
| L179592 | | 95 | <10 | 87 |
| L179593 | | 72 | <10 | 591 |
| L179594 | | 146 | <10 | 285 |
| L179595 | | 70 | <10 | 86 |
| L179596 | | 64 | <10 | 56 |
| L179597 | | 46 | <10 | 126 |
| L179598 | | 63 | <10 | 46 |
| L179599 | | 79 | <10 | 48 |
| L179600 | | 107 | <10 | 66 |
| N423780 | | 118 | <10 | 47 |
| N423781 | | 272 | <10 | 112 |
| N423782 | | 128 | 10 | 77 |
| N423783 | | 214 | 10 | 132 |
| N423784 | | 203 | <10 | 132 |
| N423785 | | 205 | 10 | 156 |
| N423786 | | 200 | 10 | 110 |
| N423787 | | 138 | 20 | 82 |
| N423788 | | 221 | 20 | 151 |
| N423789 | | 21 | <10 | 25 |
| N423790 | | 202 | <10 | 114 |
| N423791 | | 196 | 10 | 116 |
| N423792 | | 119 | <10 | 66 |
| N423793 | | 376 | <10 | 97 |
| N423794 | | 110 | <10 | 66 |
| N423795 | | 137 | <10 | 67 |
| N423796 | | 114 | <10 | 65 |
| N423797 | | 109 | <10 | 45 |
| N423798 | | 108 | <10 | 72 |
| N423799 | | 80 | <10 | 49 |
| N423800 | | 100 | <10 | 55 |
| N423801 | | 66 | <10 | 43 |
| N423802 | | 93 | <10 | 35 |
| N423803 | | 52 | <10 | 75 |
| N423804 | | 49 | <10 | 96 |
| N423805 | | 47 | <10 | 501 |
| N423806 | | 117 | <10 | 87 |
| N423807 | | 53 | <10 | 88 |
| N423808 | | 40 | <10 | 103 |
| N423809 | | 41 | <10 | 124 |

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# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N423810 | | <0.5 | 7.67 | 13 | 640 | 2.1 | 4 | 2.55 | <0.5 | 13 | 45 | 13 | 3.77 | 20 | 2.56 | 40 |
| N433741 | | 2.7 | 6.33 | 61 | 270 | 1.5 | 5 | 3.78 | <0.5 | 17 | 65 | 44 | 4.24 | 20 | 2.20 | 50 |
| N433742 | | <0.5 | 10.45 | 7 | 5300 | 5.6 | 2 | 0.73 | <0.5 | 7 | 3 | 49 | 3.16 | 20 | 5.78 | 80 |
| N433743 | | <0.5 | 10.00 | 7 | 2070 | 5.6 | <2 | 1.89 | <0.5 | 12 | 10 | 40 | 3.57 | 30 | 5.06 | 90 |
| N433744 | | <0.5 | 8.50 | 23 | 3870 | 10.7 | <2 | 2.72 | <0.5 | 15 | 3 | 161 | 5.77 | 30 | 5.10 | 100 |
| N433745 | | <0.5 | 7.00 | <5 | 1140 | 3.1 | <2 | 0.60 | <0.5 | 3 | 60 | 9 | 0.83 | 20 | 2.28 | 20 |
| N433746 | | <0.5 | 12.00 | 31 | 2090 | 4.2 | <2 | 0.39 | <0.5 | 41 | 118 | 92 | 13.45 | 30 | 4.85 | 50 |
| N433747 | | <0.5 | 8.37 | <5 | 50 | <0.5 | 3 | 7.63 | <0.5 | 48 | 234 | 116 | 6.47 | 20 | 0.03 | <10 |
| N433748 | | <0.5 | 10.90 | 6 | 3380 | 6.5 | <2 | 1.49 | <0.5 | 6 | 2 | 35 | 3.04 | 20 | 5.47 | 70 |
| N433749 | | <0.5 | 9.08 | 13 | 1930 | 5.2 | 2 | 2.41 | <0.5 | 16 | 30 | 132 | 4.63 | 30 | 4.78 | 60 |
| N433750 | | <0.5 | 7.57 | 11 | 1540 | 3.4 | 3 | 5.31 | <0.5 | 31 | 93 | 95 | 6.37 | 20 | 4.26 | 70 |
| N433751 | | <0.5 | 7.39 | 5 | 3740 | 2.1 | <2 | 4.26 | <0.5 | 27 | 103 | 110 | 6.05 | 20 | 5.18 | 70 |
| N433752 | | <0.5 | 7.21 | 9 | 1750 | 3.6 | <2 | 4.21 | <0.5 | 21 | 88 | 81 | 5.49 | 20 | 3.84 | 60 |
| N433753 | | <0.5 | 7.49 | 24 | 1560 | 2.8 | <2 | 5.56 | <0.5 | 25 | 93 | 98 | 5.99 | 20 | 4.62 | 90 |
| N433754 | | <0.5 | 9.79 | 46 | 1130 | 2.0 | 2 | 1.00 | <0.5 | 31 | 551 | 115 | 4.37 | 20 | 3.90 | 20 |
| N433755 | | <0.5 | 6.95 | 5 | 2550 | 2.4 | 2 | 4.36 | <0.5 | 15 | 23 | 66 | 4.20 | 20 | 4.35 | 50 |
| N433756 | | <0.5 | 7.59 | 7 | 2470 | 3.0 | <2 | 5.29 | <0.5 | 29 | 90 | 49 | 6.08 | 20 | 3.89 | 80 |
| N433757 | | <0.5 | 7.17 | 9 | 2660 | 2.1 | 3 | 4.85 | <0.5 | 28 | 90 | 71 | 5.41 | 20 | 5.55 | 60 |
| N433758 | | <0.5 | 7.27 | 6 | 1440 | 3.3 | 4 | 4.60 | <0.5 | 22 | 91 | 174 | 5.78 | 20 | 4.61 | 80 |
| N433759 | | 1.1 | 5.71 | 7 | 1240 | 1.4 | <2 | 7.66 | <0.5 | 28 | 66 | 60 | 5.02 | 10 | 1.67 | 50 |
| N433760 | | <0.5 | 10.50 | 35 | 1020 | 2.0 | <2 | 0.19 | <0.5 | 27 | 190 | 51 | 5.40 | 30 | 3.22 | 30 |
| N433761 | | <0.5 | 5.95 | <5 | 1670 | 5.1 | 2 | 2.04 | <0.5 | 10 | 40 | 96 | 2.30 | 20 | 3.64 | 60 |
| N433762 | | <0.5 | 7.30 | <5 | 1980 | 3.0 | 2 | 5.18 | <0.5 | 23 | 88 | 37 | 5.42 | 20 | 4.01 | 90 |
| N433763 | | <0.5 | 7.52 | 10 | 1570 | 2.3 | 6 | 4.93 | <0.5 | 22 | 86 | 122 | 5.17 | 20 | 2.03 | 70 |
| N433764 | | <0.5 | 9.27 | 7 | 1950 | 3.4 | 2 | 2.06 | <0.5 | 13 | 26 | 111 | 4.30 | 20 | 2.81 | 80 |
| N433765 | | 2.0 | 9.68 | 16 | 5850 | 21.5 | 7 | 1.26 | 2.4 | 11 | 4 | 130 | 5.97 | 40 | 3.95 | 200 |
| N433766 | | <0.5 | 8.06 | <5 | 140 | 4.5 | 8 | 2.62 | 1.6 | 20 | 76 | 36 | 3.47 | 20 | 4.16 | 10 |
| N433767 | | 0.5 | 6.95 | <5 | 3420 | 2.3 | 3 | 4.32 | 2.5 | 18 | 93 | 88 | 6.17 | 20 | 2.90 | 40 |
| N433768 | | <0.5 | 7.93 | <5 | 1300 | 1.8 | 7 | 3.11 | 1.8 | 30 | 243 | 19 | 4.89 | 20 | 0.94 | 60 |
| N433769 | | 0.5 | 7.16 | 44 | 1130 | 1.8 | 5 | 3.36 | 1.9 | 26 | 89 | 14 | 4.22 | 20 | 2.23 | 50 |
| N433770 | | <0.5 | 7.06 | 22 | 1240 | 1.6 | 4 | 4.14 | 1.9 | 19 | 79 | 28 | 3.93 | 20 | 1.85 | 60 |
| N433771 | | <0.5 | 7.66 | 45 | 950 | 1.7 | 3 | 2.98 | 2.0 | 17 | 89 | 48 | 4.30 | 20 | 1.59 | 60 |
| N433772 | | 3.1 | 6.61 | 66 | 320 | 1.6 | <2 | 2.32 | <0.5 | 19 | 74 | 19 | 3.96 | 20 | 2.94 | 50 |
| N433773 | | 0.5 | 7.27 | 88 | 1360 | 1.8 | <2 | 2.83 | <0.5 | 21 | 91 | 41 | 4.34 | 20 | 2.55 | 60 |
| N433774 | | <0.5 | 7.39 | 29 | 1570 | 1.7 | <2 | 4.09 | <0.5 | 18 | 77 | 41 | 4.34 | 20 | 1.88 | 60 |
| N433775 | | <0.5 | 9.71 | 6 | 6110 | 21.8 | <2 | 0.53 | <0.5 | 14 | 4 | 111 | 7.43 | 30 | 6.28 | 200 |
| N433776 | | <0.5 | 7.37 | 11 | 5860 | 5.9 | <2 | 3.44 | <0.5 | 18 | 3 | 247 | 6.39 | 20 | 2.98 | 110 |
| N433777 | | <0.5 | 6.81 | 6 | 4700 | 4.6 | <2 | 3.48 | <0.5 | 11 | 5 | 73 | 4.00 | 20 | 3.87 | 50 |
| N433778 | | <0.5 | 7.52 | 20 | 1860 | 2.9 | <2 | 4.65 | <0.5 | 29 | 91 | 91 | 6.15 | 20 | 3.45 | 80 |
| N433779 | | <0.5 | 7.14 | 15 | 1870 | 3.7 | <2 | 3.80 | <0.5 | 22 | 77 | 129 | 5.20 | 20 | 4.82 | 50 |

***** 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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| N423810 | | 1.22 | 844 | <1 | 3.24 | 23 | 1020 | 9 | 2.10 | <5 | 6 | 768 | <20 | 0.13 | <10 | <10 |
| N433741 | | 2.01 | 1140 | 2 | 2.30 | 41 | 1610 | 96 | 3.35 | <5 | 11 | 983 | <20 | 0.26 | <10 | <10 |
| N433742 | | 0.29 | 883 | <1 | 3.04 | 1 | 1250 | 21 | 0.09 | <5 | 3 | 986 | 30 | 0.25 | <10 | <10 |
| N433743 | | 0.54 | 1730 | <1 | 3.22 | 6 | 930 | 25 | 0.07 | <5 | 4 | 823 | 30 | 0.27 | <10 | <10 |
| N433744 | | 0.64 | 1520 | <1 | 2.39 | 6 | 1390 | 30 | 0.04 | <5 | 4 | 967 | 30 | 0.62 | <10 | <10 |
| N433745 | | 0.39 | 126 | <1 | 1.96 | 27 | 360 | 18 | <0.01 | <5 | 2 | 317 | <20 | 0.10 | <10 | <10 |
| N433746 | | 0.44 | 1890 | <1 | 0.04 | 52 | 2670 | 11 | <0.01 | <5 | 38 | 207 | 20 | 0.48 | <10 | <10 |
| N433747 | | 3.73 | 1525 | <1 | 1.42 | 113 | 230 | 2 | 0.04 | <5 | 43 | 156 | <20 | 0.51 | <10 | <10 |
| N433748 | | 0.47 | 879 | <1 | 2.16 | 1 | 1180 | 9 | 0.03 | <5 | 3 | 953 | 30 | 0.23 | <10 | <10 |
| N433749 | | 1.01 | 979 | <1 | 3.26 | 11 | 2220 | 18 | 0.04 | <5 | 8 | 1200 | 20 | 0.28 | <10 | <10 |
| N433750 | | 3.01 | 1070 | <1 | 2.19 | 30 | 2720 | 17 | 0.11 | 8 | 21 | 1860 | 20 | 0.40 | <10 | <10 |
| N433751 | | 1.88 | 716 | 1 | 0.96 | 26 | 2800 | 19 | 0.03 | 5 | 17 | 1645 | 20 | 0.49 | <10 | <10 |
| N433752 | | 2.13 | 1110 | <1 | 2.95 | 22 | 1820 | 12 | 0.01 | 8 | 17 | 1520 | 20 | 0.40 | <10 | <10 |
| N433753 | | 2.47 | 1285 | <1 | 2.02 | 24 | 2460 | 36 | 0.05 | 8 | 21 | 2040 | 30 | 0.42 | <10 | <10 |
| N433754 | | 1.43 | 580 | <1 | 1.22 | 153 | 1260 | 4 | 0.01 | <5 | 22 | 413 | <20 | 0.13 | <10 | <10 |
| N433755 | | 1.52 | 1295 | <1 | 1.18 | 7 | 2190 | 19 | 0.02 | 5 | 5 | 1715 | 20 | 0.22 | <10 | <10 |
| N433756 | | 3.05 | 1270 | 1 | 2.43 | 29 | 2740 | 28 | 0.01 | 5 | 21 | 1580 | 20 | 0.45 | <10 | <10 |
| N433757 | | 1.99 | 1155 | <1 | 2.24 | 20 | 2360 | 8 | 0.09 | 5 | 16 | 1840 | 20 | 0.30 | <10 | <10 |
| N433758 | | 2.28 | 1130 | 1 | 2.12 | 25 | 2440 | 12 | 0.03 | 8 | 19 | 1470 | 20 | 0.42 | <10 | <10 |
| N433759 | | 3.14 | 1215 | <1 | 2.64 | 32 | 2230 | 20 | 0.73 | 9 | 19 | 3410 | 20 | 0.29 | <10 | <10 |
| N433760 | | 0.94 | 628 | 4 | 2.24 | 110 | 820 | 2 | 0.02 | <5 | 22 | 204 | <20 | 0.18 | <10 | <10 |
| N433761 | | 1.12 | 290 | <1 | 0.03 | 20 | 1650 | 9 | 0.03 | 6 | 7 | 893 | 20 | 0.22 | <10 | <10 |
| N433762 | | 2.47 | 1095 | <1 | 2.51 | 23 | 2230 | 12 | 0.03 | 11 | 20 | 1575 | 20 | 0.43 | <10 | <10 |
| N433763 | | 2.32 | 1185 | <1 | 4.27 | 20 | 1760 | 11 | 0.05 | <5 | 17 | 1855 | 20 | 0.34 | <10 | <10 |
| N433764 | | 0.72 | 806 | <1 | 4.84 | 9 | 2010 | 15 | 0.04 | 5 | 7 | 1185 | 30 | 0.22 | <10 | <10 |
| N433765 | | 0.64 | 1060 | <1 | 1.30 | 7 | 1390 | 27 | 0.16 | 9 | 4 | 686 | 60 | 0.77 | <10 | <10 |
| N433766 | | 2.09 | 512 | 2 | 3.31 | 82 | 1170 | 35 | 0.02 | <5 | 6 | 355 | <20 | 0.60 | <10 | <10 |
| N433767 | | 2.50 | 1485 | <1 | 2.41 | 29 | 1740 | 7 | 0.10 | <5 | 23 | 696 | <20 | 0.39 | <10 | <10 |
| N433768 | | 3.58 | 703 | <1 | 3.74 | 153 | 2160 | 16 | 0.05 | <5 | 16 | 1085 | 20 | 0.40 | <10 | <10 |
| N433769 | | 2.39 | 795 | <1 | 2.42 | 53 | 2010 | 20 | 0.76 | <5 | 11 | 801 | <20 | 0.35 | <10 | <10 |
| N433770 | | 2.44 | 776 | 1 | 2.46 | 48 | 1860 | 8 | 0.97 | <5 | 11 | 1075 | <20 | 0.33 | <10 | <10 |
| N433771 | | 2.55 | 666 | <1 | 3.30 | 54 | 2050 | 6 | 1.04 | <5 | 12 | 990 | <20 | 0.36 | <10 | <10 |
| N433772 | | 1.49 | 679 | 3 | 1.49 | 49 | 1710 | 67 | 3.27 | <5 | 11 | 1055 | <20 | 0.22 | <10 | <10 |
| N433773 | | 2.65 | 1090 | 1 | 2.40 | 56 | 1950 | 10 | 1.38 | 5 | 11 | 657 | 20 | 0.33 | <10 | <10 |
| N433774 | | 2.20 | 910 | 1 | 3.29 | 50 | 2270 | 6 | 0.54 | 5 | 10 | 1295 | 20 | 0.29 | <10 | <10 |
| N433775 | | 0.64 | 2030 | 1 | 1.42 | 7 | 1280 | 30 | 0.14 | 17 | 4 | 730 | 70 | 0.58 | <10 | <10 |
| N433776 | | 0.96 | 1720 | 1 | 3.40 | 6 | 2060 | 20 | 0.14 | 10 | 8 | 1265 | 40 | 0.49 | <10 | <10 |
| N433777 | | 0.73 | 1500 | <1 | 3.72 | 3 | 1310 | 12 | 0.06 | <5 | 4 | 1560 | 20 | 0.38 | <10 | <10 |
| N433778 | | 2.88 | 1115 | 2 | 2.93 | 29 | 2700 | 13 | 0.02 | 9 | 21 | 1705 | 20 | 0.44 | <10 | <10 |
| N433779 | | 1.80 | 1050 | 1 | 2.23 | 20 | 2460 | 13 | 0.02 | <5 | 12 | 1835 | 20 | 0.41 | <10 | <10 |

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

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


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| N423810 | | 80 | <10 | 41 |
| N433741 | | 93 | <10 | 59 |
| N433742 | | 82 | <10 | 92 |
| N433743 | | 95 | <10 | 90 |
| N433744 | | 372 | <10 | 126 |
| N433745 | | 20 | <10 | 18 |
| N433746 | | 356 | <10 | 162 |
| N433747 | | 283 | <10 | 85 |
| N433748 | | 78 | <10 | 93 |
| N433749 | | 135 | <10 | 88 |
| N433750 | | 214 | <10 | 142 |
| N433751 | | 195 | 10 | 135 |
| N433752 | | 184 | 10 | 81 |
| N433753 | | 204 | 10 | 109 |
| N433754 | | 156 | <10 | 43 |
| N433755 | | 113 | 10 | 87 |
| N433756 | | 194 | <10 | 124 |
| N433757 | | 155 | 10 | 72 |
| N433758 | | 206 | <10 | 105 |
| N433759 | | 139 | 20 | 88 |
| N433760 | | 154 | <10 | 81 |
| N433761 | | 181 | <10 | 78 |
| N433762 | | 200 | <10 | 84 |
| N433763 | | 142 | <10 | 81 |
| N433764 | | 103 | <10 | 66 |
| N433765 | | 341 | <10 | 153 |
| N433766 | | 75 | <10 | 52 |
| N433767 | | 198 | <10 | 105 |
| N433768 | | 130 | <10 | 116 |
| N433769 | | 112 | <10 | 113 |
| N433770 | | 103 | <10 | 89 |
| N433771 | | 118 | <10 | 85 |
| N433772 | | 101 | <10 | 39 |
| N433773 | | 113 | <10 | 118 |
| N433774 | | 110 | <10 | 109 |
| N433775 | | 299 | <10 | 198 |
| N433776 | | 307 | <10 | 130 |
| N433777 | | 171 | <10 | 100 |
| N433778 | | 190 | <10 | 116 |
| N433779 | | 176 | <10 | 89 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433780 | | <0.5 | 6.74 | <5 | 1160 | 2.0 | 2 | 6.94 | <0.5 | 29 | 125 | 92 | 6.43 | 20 | 1.75 | 80 |
| N433781 | | <0.5 | 6.15 | 18 | 1150 | 1.8 | <2 | 6.50 | 0.6 | 35 | 142 | 67 | 6.45 | 10 | 1.93 | 70 |
| N433782 | | <0.5 | 7.29 | 7 | 1210 | 3.5 | <2 | 6.17 | <0.5 | 25 | 73 | 56 | 5.70 | 20 | 3.95 | 80 |
| N433783 | | <0.5 | 7.56 | 16 | 2040 | 3.9 | <2 | 4.81 | <0.5 | 29 | 76 | 64 | 4.82 | 20 | 5.45 | 60 |
| N433784 | | <0.5 | 10.05 | <5 | 4010 | 5.3 | <2 | 0.72 | <0.5 | 5 | 2 | 27 | 2.25 | 20 | 3.93 | 80 |
| N433785 | | <0.5 | 8.33 | 12 | 2700 | 3.5 | <2 | 2.33 | <0.5 | 16 | 24 | 109 | 4.66 | 20 | 4.19 | 60 |
| N433786 | | <0.5 | 6.03 | 5 | 2580 | 2.4 | <2 | 6.72 | <0.5 | 31 | 138 | 206 | 6.63 | 20 | 2.02 | 80 |
| N433787 | | <0.5 | 6.58 | 31 | 2000 | 3.0 | <2 | 5.13 | <0.5 | 24 | 154 | 93 | 5.77 | 20 | 4.83 | 40 |
| N433788 | | <0.5 | 7.42 | 9 | 1650 | 2.8 | 2 | 3.49 | <0.5 | 30 | 180 | 107 | 6.71 | 20 | 3.99 | 40 |
| N433789 | | <0.5 | 6.13 | 16 | 810 | 2.3 | <2 | 6.61 | <0.5 | 17 | 187 | 71 | 4.07 | 20 | 2.67 | 40 |
| N433790 | | <0.5 | 6.99 | 167 | 770 | 1.8 | <2 | 5.27 | <0.5 | 28 | 172 | 38 | 5.06 | 20 | 3.60 | 40 |
| N433791 | | <0.5 | 6.76 | <5 | 1420 | 1.4 | <2 | 4.35 | <0.5 | 24 | 196 | 20 | 4.76 | 20 | 2.50 | 40 |
| N433792 | | <0.5 | 7.24 | 6 | 1210 | 1.6 | <2 | 2.05 | <0.5 | 28 | 243 | 91 | 6.04 | 20 | 3.11 | 30 |
| N433793 | | <0.5 | 7.28 | 31 | 2780 | 3.1 | <2 | 3.70 | <0.5 | 32 | 253 | 57 | 6.08 | 20 | 3.22 | 50 |
| N433794 | | <0.5 | 6.80 | 8 | 1650 | 3.4 | <2 | 4.82 | <0.5 | 32 | 188 | 80 | 6.26 | 20 | 3.76 | 40 |
| N433795 | | <0.5 | 7.78 | 28 | 2060 | 2.2 | <2 | 3.56 | <0.5 | 31 | 238 | 6 | 5.67 | 20 | 2.89 | 40 |
| N433796 | | <0.5 | 7.28 | 8 | 2780 | 1.4 | <2 | 4.82 | <0.5 | 26 | 205 | 77 | 5.07 | 20 | 2.59 | 40 |
| N433797 | | <0.5 | 6.35 | 20 | 1490 | 1.7 | <2 | 4.55 | <0.5 | 30 | 157 | 58 | 6.01 | 20 | 3.38 | 40 |
| N433798 | | <0.5 | 6.39 | 9 | 830 | 2.9 | <2 | 5.05 | <0.5 | 25 | 157 | 42 | 5.83 | 20 | 2.61 | 40 |
| N433799 | | <0.5 | 7.99 | <5 | 150 | 3.8 | <2 | 2.53 | <0.5 | 21 | 77 | 41 | 3.46 | 20 | 4.25 | 10 |
| N433800 | | <0.5 | 6.42 | 9 | 1130 | 1.3 | <2 | 3.46 | <0.5 | 31 | 146 | 6 | 5.31 | 10 | 3.24 | 50 |
| N433801 | | <0.5 | 7.01 | 13 | 870 | 2.4 | <2 | 3.87 | <0.5 | 31 | 175 | 88 | 6.44 | 20 | 2.52 | 40 |
| N433802 | | <0.5 | 6.87 | 10 | 1910 | 1.8 | <2 | 3.86 | <0.5 | 23 | 194 | 67 | 4.47 | 20 | 2.24 | 40 |
| N433803 | | <0.5 | 6.38 | <5 | 1410 | 2.5 | <2 | 5.31 | <0.5 | 28 | 186 | 80 | 5.66 | 20 | 3.14 | 40 |
| N433804 | | <0.5 | 7.23 | 11 | 9320 | 10.9 | 2 | 2.63 | <0.5 | 8 | 9 | 85 | 4.14 | 20 | 6.16 | 80 |
| N433805 | | 2.9 | 9.58 | 107 | 2190 | 6.8 | <2 | 1.44 | 1.1 | 7 | 5 | 305 | 3.45 | 30 | 5.44 | 70 |
| N433806 | | <0.5 | 7.08 | 15 | 1480 | 1.5 | <2 | 4.17 | <0.5 | 37 | 339 | 32 | 5.86 | 20 | 1.82 | 30 |
| N433807 | | <0.5 | 6.87 | <5 | 600 | 1.2 | <2 | 4.12 | <0.5 | 27 | 221 | 3 | 4.34 | 20 | 0.20 | 30 |
| N433808 | | <0.5 | 6.80 | 14 | 2180 | 2.5 | <2 | 4.25 | <0.5 | 33 | 156 | 57 | 6.32 | 20 | 3.01 | 40 |
| N433809 | | <0.5 | 10.15 | <5 | 3950 | 6.8 | <2 | 1.57 | <0.5 | 2 | 4 | 18 | 3.46 | 30 | 5.92 | 70 |
| N433810 | | <0.5 | 7.34 | 17 | 4150 | 11.1 | <2 | 3.04 | <0.5 | 15 | 3 | 185 | 5.73 | 30 | 4.89 | 80 |
| N433811 | | <0.5 | 8.80 | 6 | 3660 | 12.3 | <2 | 1.92 | <0.5 | 5 | 4 | 283 | 4.90 | 30 | 6.23 | 160 |
| N433812 | | <0.5 | 8.56 | 23 | 1730 | 2.6 | <2 | 2.20 | <0.5 | 17 | 142 | 45 | 3.24 | 20 | 3.99 | 40 |
| N433813 | | <0.5 | 7.29 | <5 | 1810 | 1.7 | <2 | 3.28 | <0.5 | 22 | 126 | 80 | 5.24 | 20 | 1.77 | 40 |
| N433814 | | <0.5 | 6.41 | 14 | 1280 | 2.3 | <2 | 6.14 | <0.5 | 22 | 145 | 92 | 5.15 | 20 | 3.28 | 40 |
| N433815 | | 0.5 | 8.59 | 145 | 6840 | 8.8 | <2 | 1.43 | <0.5 | 15 | 38 | 106 | 6.15 | 30 | 5.39 | 160 |
| N433816 | | 0.5 | 8.32 | 14 | >10000 | 7.6 | <2 | 1.93 | <0.5 | 12 | 3 | 121 | 5.68 | 30 | 4.33 | 150 |
| N433817 | | <0.5 | 7.15 | 22 | 5790 | 7.2 | <2 | 3.16 | <0.5 | 15 | 5 | 178 | 5.86 | 20 | 4.11 | 100 |
| N433818 | | <0.5 | 6.81 | 19 | 890 | 1.7 | <2 | 5.75 | <0.5 | 11 | 22 | 41 | 3.88 | 10 | 2.00 | 70 |
| N433819 | | <0.5 | 6.24 | 91 | 1070 | 1.6 | <2 | 3.26 | <0.5 | 18 | 193 | 61 | 3.47 | 20 | 2.73 | 30 |

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

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433780 | | 2.91 | 1165 | <1 | 3.31 | 35 | 3020 | 21 | 0.02 | 11 | 31 | 2170 | 20 | 0.45 | <10 | <10 |
| N433781 | | 3.20 | 1160 | 1 | 3.09 | 37 | 2710 | 12 | 0.01 | 11 | 29 | 1345 | 20 | 0.50 | <10 | <10 |
| N433782 | | 2.88 | 1340 | 1 | 1.81 | 25 | 2190 | 14 | 0.09 | 11 | 18 | 1405 | 20 | 0.38 | <10 | <10 |
| N433783 | | 2.04 | 1185 | 1 | 1.82 | 18 | 2530 | 16 | 0.05 | 10 | 12 | 1415 | 20 | 0.42 | <10 | <10 |
| N433784 | | 0.28 | 575 | <1 | 4.60 | 3 | 1380 | 13 | 0.10 | <5 | 3 | 539 | 30 | 0.28 | <10 | <10 |
| N433785 | | 0.88 | 1165 | <1 | 3.67 | 11 | 2230 | 13 | 0.04 | 30 | 7 | 1330 | 20 | 0.24 | <10 | <10 |
| N433786 | | 3.96 | 1245 | 9 | 3.08 | 38 | 3080 | 33 | 0.02 | 10 | 30 | 1670 | 20 | 0.52 | <10 | <10 |
| N433787 | | 2.97 | 991 | <1 | 0.23 | 52 | 2500 | 9 | 0.16 | 9 | 19 | 1055 | <20 | 0.30 | 10 | <10 |
| N433788 | | 2.92 | 891 | 1 | 2.41 | 48 | 2700 | 9 | 0.01 | 5 | 20 | 588 | <20 | 0.46 | <10 | <10 |
| N433789 | | 3.17 | 1145 | <1 | 2.00 | 54 | 1660 | 13 | 0.01 | 9 | 19 | 1430 | <20 | 0.18 | <10 | <10 |
| N433790 | | 2.42 | 1230 | 8 | 2.64 | 62 | 1800 | 39 | 2.80 | 6 | 20 | 711 | <20 | 0.22 | <10 | <10 |
| N433791 | | 3.40 | 1130 | <1 | 2.75 | 66 | 1680 | 11 | 0.02 | 6 | 21 | 864 | <20 | 0.21 | <10 | <10 |
| N433792 | | 3.36 | 743 | <1 | 2.58 | 76 | 1930 | 10 | 0.01 | <5 | 14 | 508 | <20 | 0.25 | <10 | <10 |
| N433793 | | 3.20 | 1425 | 1 | 2.98 | 120 | 1570 | 12 | 0.12 | 7 | 25 | 924 | <20 | 0.52 | 10 | <10 |
| N433794 | | 4.57 | 1030 | 1 | 2.18 | 69 | 2670 | 8 | 0.01 | <5 | 21 | 1035 | <20 | 0.49 | 10 | <10 |
| N433795 | | 4.00 | 1070 | <1 | 3.29 | 77 | 1870 | 14 | <0.01 | 7 | 25 | 1505 | <20 | 0.36 | <10 | <10 |
| N433796 | | 3.35 | 1015 | <1 | 2.78 | 71 | 1830 | 25 | 0.05 | 6 | 22 | 789 | <20 | 0.32 | <10 | <10 |
| N433797 | | 3.10 | 1095 | <1 | 1.88 | 64 | 2470 | 7 | 0.01 | <5 | 20 | 898 | <20 | 0.43 | <10 | <10 |
| N433798 | | 3.27 | 1130 | 1 | 2.13 | 54 | 2500 | 3 | 0.01 | 5 | 19 | 1180 | <20 | 0.36 | <10 | <10 |
| N433799 | | 1.99 | 497 | 1 | 3.28 | 84 | 1130 | 38 | 0.01 | <5 | 6 | 347 | <20 | 0.60 | <10 | <10 |
| N433800 | | 2.95 | 936 | <1 | 1.78 | 79 | 2290 | <2 | 0.04 | 8 | 15 | 644 | <20 | 0.38 | <10 | <10 |
| N433801 | | 3.48 | 916 | 1 | 2.53 | 60 | 2630 | 13 | 0.01 | <5 | 21 | 663 | <20 | 0.50 | <10 | <10 |
| N433802 | | 2.84 | 897 | 1 | 3.42 | 59 | 1700 | 18 | 0.04 | 5 | 18 | 595 | <20 | 0.25 | <10 | <10 |
| N433803 | | 3.72 | 1115 | 1 | 1.53 | 65 | 2440 | 18 | 0.01 | <5 | 19 | 1405 | <20 | 0.43 | 10 | <10 |
| N433804 | | 0.65 | 1360 | 1 | 0.49 | 8 | 1800 | 83 | 0.22 | 9 | 5 | 1605 | 30 | 0.38 | <10 | <10 |
| N433805 | | 0.46 | 1320 | <1 | 2.69 | 4 | 990 | 393 | 1.69 | 86 | 3 | 1160 | 30 | 0.32 | <10 | <10 |
| N433806 | | 5.20 | 939 | 1 | 2.53 | 194 | 1330 | 12 | 0.01 | <5 | 24 | 851 | <20 | 0.45 | <10 | <10 |
| N433807 | | 3.74 | 759 | 1 | 3.34 | 127 | 1140 | 24 | 0.01 | <5 | 17 | 1170 | <20 | 0.30 | <10 | <10 |
| N433808 | | 3.66 | 1030 | 1 | 2.38 | 50 | 2640 | 15 | 0.01 | 8 | 20 | 1175 | <20 | 0.41 | <10 | <10 |
| N433809 | | 0.33 | 1150 | 1 | 2.63 | 4 | 860 | 8 | 0.02 | <5 | 3 | 389 | 30 | 0.37 | <10 | <10 |
| N433810 | | 0.78 | 2440 | <1 | 2.48 | 8 | 1190 | 26 | 0.07 | <5 | 4 | 1080 | 30 | 0.60 | <10 | <10 |
| N433811 | | 0.89 | 1015 | <1 | 1.11 | 7 | 1130 | 18 | 0.07 | 10 | 3 | 621 | 50 | 0.65 | 10 | <10 |
| N433812 | | 0.80 | 441 | 1 | 0.32 | 100 | 1290 | 11 | 0.08 | 6 | 11 | 255 | 20 | 0.25 | <10 | <10 |
| N433813 | | 2.79 | 1200 | 1 | 3.19 | 41 | 1270 | 20 | 0.03 | <5 | 20 | 729 | <20 | 0.34 | <10 | <10 |
| N433814 | | 2.49 | 1185 | 1 | 1.64 | 36 | 2450 | 36 | 0.01 | 11 | 19 | 1855 | 20 | 0.39 | <10 | <10 |
| N433815 | | 0.84 | 986 | 2 | 0.16 | 19 | 2670 | 30 | 0.89 | 10 | 11 | 1075 | 50 | 0.34 | 10 | <10 |
| N433816 | | 0.82 | 1340 | 1 | 2.91 | 4 | 1170 | 64 | 0.32 | 11 | 3 | 1990 | 60 | 0.62 | <10 | <10 |
| N433817 | | 0.77 | 1590 | <1 | 3.27 | 4 | 2110 | 67 | 0.11 | 5 | 5 | 1525 | 40 | 0.60 | <10 | <10 |
| N433818 | | 2.25 | 1185 | 1 | 3.11 | 16 | 1650 | 22 | 0.06 | 6 | 12 | 1285 | 20 | 0.25 | <10 | <10 |
| N433819 | | 0.97 | 596 | 2 | 0.25 | 64 | 1030 | 43 | 0.24 | <5 | 15 | 353 | <20 | 0.25 | <10 | <10 |

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

ALS Canada Ltd.
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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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| N433780 | | 219 | 10 | 91 |
| N433781 | | 220 | <10 | 57 |
| N433782 | | 201 | 10 | 75 |
| N433783 | | 173 | 10 | 86 |
| N433784 | | 74 | <10 | 58 |
| N433785 | | 118 | <10 | 112 |
| N433786 | | 220 | <10 | 95 |
| N433787 | | 186 | 10 | 92 |
| N433788 | | 180 | <10 | 93 |
| N433789 | | 106 | <10 | 58 |
| N433790 | | 136 | 10 | 53 |
| N433791 | | 138 | <10 | 69 |
| N433792 | | 160 | <10 | 77 |
| N433793 | | 207 | <10 | 127 |
| N433794 | | 193 | <10 | 100 |
| N433795 | | 179 | <10 | 91 |
| N433796 | | 157 | <10 | 81 |
| N433797 | | 167 | <10 | 80 |
| N433798 | | 169 | <10 | 75 |
| N433799 | | 79 | <10 | 46 |
| N433800 | | 104 | <10 | 86 |
| N433801 | | 188 | <10 | 104 |
| N433802 | | 133 | <10 | 69 |
| N433803 | | 168 | <10 | 93 |
| N433804 | | 204 | 20 | 182 |
| N433805 | | 236 | <10 | 435 |
| N433806 | | 173 | <10 | 94 |
| N433807 | | 126 | <10 | 96 |
| N433808 | | 187 | <10 | 121 |
| N433809 | | 164 | <10 | 87 |
| N433810 | | 281 | <10 | 102 |
| N433811 | | 347 | <10 | 112 |
| N433812 | | 102 | <10 | 62 |
| N433813 | | 173 | <10 | 96 |
| N433814 | | 161 | <10 | 83 |
| N433815 | | 240 | <10 | 111 |
| N433816 | | 250 | <10 | 124 |
| N433817 | | 269 | <10 | 98 |
| N433818 | | 103 | 10 | 63 |
| N433819 | | 115 | <10 | 63 |

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**Finalized Date: 24-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433820 | | <0.5 | 6.46 | 63 | 1160 | 1.7 | <2 | 3.76 | <0.5 | 23 | 260 | 16 | 4.49 | 20 | 2.87 | 30 |
| N433821 | | <0.5 | 7.17 | 38 | 1750 | 3.2 | <2 | 4.29 | <0.5 | 33 | 167 | 132 | 6.19 | 20 | 4.05 | 40 |
| N433822 | | <0.5 | 7.08 | 14 | 5670 | 6.9 | 6 | 3.88 | <0.5 | 25 | 43 | 187 | 7.21 | 30 | 4.11 | 180 |
| N433823 | | 0.6 | 6.72 | 19 | 2100 | 11.2 | 2 | 2.81 | <0.5 | 38 | 32 | 82 | 7.52 | 30 | 5.43 | 270 |
| N433824 | | <0.5 | 8.83 | 10 | 3050 | 13.7 | <2 | 2.18 | <0.5 | 12 | 4 | 131 | 6.13 | 40 | 4.44 | 160 |
| N433825 | | <0.5 | 6.63 | 15 | 6060 | 5.0 | <2 | 5.63 | <0.5 | 21 | 51 | 143 | 6.27 | 20 | 4.39 | 140 |
| N433826 | | <0.5 | 7.37 | 12 | 3230 | 5.9 | <2 | 4.94 | <0.5 | 26 | 48 | 135 | 6.51 | 20 | 3.59 | 160 |
| N433827 | | <0.5 | 6.70 | <5 | 2230 | 2.2 | 3 | 5.87 | <0.5 | 23 | 140 | 90 | 5.73 | 20 | 4.86 | 40 |
| N433828 | | <0.5 | 7.39 | 5 | 1800 | 1.7 | <2 | 5.35 | <0.5 | 29 | 61 | 132 | 7.11 | 20 | 5.02 | 60 |
| N433829 | | <0.5 | 7.32 | <5 | 1930 | 1.9 | <2 | 4.62 | <0.5 | 22 | 84 | 50 | 5.66 | 20 | 2.32 | 50 |
| N433830 | | <0.5 | 7.34 | 23 | 4120 | 12.2 | <2 | 3.10 | <0.5 | 22 | 7 | 183 | 6.88 | 30 | 6.78 | 100 |
| N459362 | | <0.5 | 7.51 | <5 | 70 | <0.5 | <2 | 4.96 | <0.5 | 40 | 165 | 75 | 7.72 | 20 | 0.08 | 10 |
| N459363 | | <0.5 | 7.28 | <5 | 30 | <0.5 | <2 | 7.07 | <0.5 | 41 | 168 | 95 | 7.58 | 20 | 0.02 | 10 |
| N459364 | | <0.5 | 7.59 | <5 | 90 | <0.5 | <2 | 5.88 | <0.5 | 43 | 192 | 109 | 7.73 | 20 | 0.14 | <10 |
| N459365 | | <0.5 | 7.35 | <5 | 30 | <0.5 | <2 | 7.35 | <0.5 | 43 | 220 | 104 | 6.99 | 20 | 0.04 | <10 |
| N459366 | | <0.5 | 8.07 | 6 | 140 | 4.5 | <2 | 2.59 | <0.5 | 22 | 76 | 35 | 3.56 | 30 | 4.29 | 10 |
| N459367 | | <0.5 | 7.31 | <5 | 30 | <0.5 | <2 | 6.50 | <0.5 | 37 | 165 | 82 | 7.53 | 20 | 0.02 | 10 |
| N459368 | | <0.5 | 8.02 | <5 | 50 | <0.5 | 5 | 6.47 | <0.5 | 51 | 272 | 128 | 7.27 | 20 | 0.03 | <10 |
| N459369 | | <0.5 | 7.07 | 10 | 30 | <0.5 | <2 | 6.93 | 0.5 | 47 | 211 | 115 | 7.61 | 10 | 0.01 | <10 |
| N459370 | | <0.5 | 6.28 | 12 | 30 | 0.6 | <2 | 4.91 | <0.5 | 36 | 14 | 5 | 10.60 | 20 | 0.02 | <10 |
| N459371 | | <0.5 | 6.68 | <5 | 60 | 0.5 | 2 | 2.82 | <0.5 | 29 | 2 | 12 | 10.60 | 20 | 0.05 | 10 |
| N459372 | | <0.5 | 6.94 | 6 | 50 | 0.6 | 3 | 4.95 | <0.5 | 29 | 2 | 19 | 10.50 | 20 | 0.08 | 10 |
| N459373 | | <0.5 | 6.48 | <5 | 100 | 1.0 | 3 | 9.75 | 0.7 | 21 | 2 | 37 | 9.19 | 30 | 0.09 | 10 |
| N459374 | | <0.5 | 6.38 | 14 | 50 | <0.5 | 2 | 5.39 | <0.5 | 36 | 2 | 21 | 8.23 | 20 | 0.09 | 10 |
| N459375 | | <0.5 | 7.63 | <5 | 160 | 0.5 | <2 | 4.53 | <0.5 | 42 | 192 | 119 | 7.05 | 20 | 0.40 | <10 |
| N459376 | | <0.5 | 8.37 | 14 | 370 | <0.5 | <2 | 4.79 | <0.5 | 51 | 210 | 129 | 5.96 | 20 | 0.69 | <10 |
| N459377 | | <0.5 | 8.42 | <5 | 150 | <0.5 | <2 | 4.19 | <0.5 | 45 | 223 | 114 | 7.73 | 20 | 0.30 | <10 |
| N459378 | | <0.5 | 7.52 | 7 | 30 | <0.5 | <2 | 8.44 | <0.5 | 55 | 194 | 122 | 7.70 | 20 | 0.04 | <10 |
| N459379 | | <0.5 | 6.30 | <5 | 30 | <0.5 | 2 | 3.84 | <0.5 | 40 | 17 | 64 | 10.15 | 20 | 0.03 | <10 |
| N459380 | | <0.5 | 6.34 | <5 | 40 | <0.5 | <2 | 8.01 | 0.8 | 46 | 50 | 103 | 9.33 | 20 | 0.05 | 10 |
| N459381 | | <0.5 | 6.99 | <5 | 40 | <0.5 | <2 | 6.55 | 0.5 | 44 | 109 | 94 | 9.48 | 20 | 0.04 | <10 |
| N459382 | | <0.5 | 8.95 | <5 | 600 | <0.5 | <2 | 5.74 | <0.5 | 50 | 207 | 123 | 6.66 | 20 | 1.22 | <10 |
| N459383 | | <0.5 | 7.74 | <5 | 50 | <0.5 | <2 | 6.57 | <0.5 | 43 | 117 | 102 | 9.42 | 20 | 0.06 | <10 |
| N459384 | | <0.5 | 7.83 | <5 | 160 | <0.5 | <2 | 5.69 | <0.5 | 47 | 231 | 117 | 7.46 | 20 | 0.40 | <10 |
| N459385 | | <0.5 | 8.19 | <5 | 390 | 0.5 | <2 | 3.36 | <0.5 | 27 | 199 | 127 | 5.82 | 20 | 2.62 | 10 |
| N459386 | | <0.5 | 7.89 | <5 | 110 | <0.5 | <2 | 4.87 | <0.5 | 49 | 172 | 109 | 8.35 | 20 | 0.15 | 10 |
| N459387 | | <0.5 | 7.92 | <5 | 60 | <0.5 | <2 | 7.72 | 0.7 | 45 | 227 | 96 | 8.10 | 20 | 0.15 | <10 |
| N459388 | | <0.5 | 7.67 | <5 | 50 | <0.5 | <2 | 6.94 | <0.5 | 56 | 181 | 61 | 6.91 | 10 | 0.08 | <10 |
| N459389 | | <0.5 | 7.63 | <5 | 50 | <0.5 | <2 | 3.05 | <0.5 | 46 | 218 | 81 | 7.28 | 10 | 0.06 | <10 |
| N459390 | | <0.5 | 8.58 | <5 | 150 | <0.5 | <2 | 5.04 | <0.5 | 44 | 450 | 54 | 7.11 | 20 | 0.42 | <10 |

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

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433820 | | 0.99 | 860 | 2 | 0.32 | 77 | 1060 | 11 | 0.20 | 8 | 14 | 318 | <20 | 0.24 | <10 | <10 |
| N433821 | | 2.10 | 854 | 1 | 1.30 | 67 | 2760 | 12 | 0.30 | 9 | 19 | 825 | <20 | 0.48 | <10 | <10 |
| N433822 | | 1.80 | 1645 | <1 | 2.04 | 23 | 3890 | 24 | 0.15 | 6 | 17 | 2050 | 40 | 0.51 | <10 | <10 |
| N433823 | | 1.28 | 2350 | 1 | 0.13 | 28 | 4520 | 33 | 1.01 | <5 | 8 | 2450 | 70 | 0.49 | <10 | <10 |
| N433824 | | 0.75 | 1515 | 1 | 3.12 | 5 | 1620 | 41 | 0.10 | 6 | 4 | 931 | 50 | 0.53 | <10 | <10 |
| N433825 | | 2.48 | 2200 | 2 | 1.60 | 27 | 2270 | 20 | 0.21 | <5 | 14 | 1825 | 40 | 0.42 | <10 | <10 |
| N433826 | | 2.12 | 1475 | 1 | 3.01 | 27 | 3370 | 35 | 0.19 | 10 | 16 | 2230 | 50 | 0.49 | <10 | <10 |
| N433827 | | 2.93 | 1330 | <1 | 0.77 | 44 | 2590 | 12 | 0.01 | 8 | 19 | 1540 | <20 | 0.42 | <10 | <10 |
| N433828 | | 2.23 | 1250 | 1 | 1.75 | 29 | 2330 | 14 | 0.04 | 8 | 22 | 1595 | 20 | 0.43 | <10 | <10 |
| N433829 | | 2.17 | 1440 | 1 | 2.31 | 26 | 1700 | 8 | 0.31 | <5 | 18 | 498 | <20 | 0.35 | <10 | <10 |
| N433830 | | 0.87 | 1720 | <1 | 0.16 | 7 | 3390 | 52 | 0.04 | 9 | 15 | 1180 | 30 | 0.49 | <10 | <10 |
| N459362 | | 3.95 | 1205 | <1 | 3.05 | 93 | 380 | <2 | 0.12 | <5 | 36 | 142 | <20 | 0.67 | <10 | <10 |
| N459363 | | 3.77 | 1350 | 1 | 1.47 | 94 | 380 | <2 | 0.07 | <5 | 38 | 138 | <20 | 0.64 | <10 | <10 |
| N459364 | | 5.04 | 1380 | 1 | 1.79 | 66 | 210 | <2 | 0.07 | <5 | 40 | 125 | <20 | 0.45 | <10 | <10 |
| N459365 | | 4.16 | 1600 | 1 | 1.57 | 104 | 200 | 2 | 0.08 | <5 | 29 | 131 | <20 | 0.44 | <10 | <10 |
| N459366 | | 2.03 | 500 | 2 | 3.54 | 83 | 1230 | 41 | 0.02 | <5 | 6 | 336 | <20 | 0.62 | <10 | <10 |
| N459367 | | 3.95 | 1485 | 1 | 1.65 | 90 | 380 | 4 | 0.09 | 5 | 38 | 144 | <20 | 0.67 | <10 | <10 |
| N459368 | | 2.94 | 1500 | <1 | 1.63 | 119 | 230 | 3 | 0.04 | <5 | 42 | 158 | <20 | 0.57 | <10 | <10 |
| N459369 | | 4.37 | 1335 | 1 | 1.37 | 114 | 190 | 2 | 0.20 | 5 | 32 | 250 | <20 | 0.47 | <10 | <10 |
| N459370 | | 2.19 | 2290 | <1 | 1.82 | 12 | 1810 | 4 | 0.25 | <5 | 32 | 37 | <20 | 1.13 | 10 | <10 |
| N459371 | | 2.71 | 1480 | <1 | 2.22 | 7 | 1460 | <2 | 0.10 | <5 | 39 | 90 | <20 | 1.49 | <10 | <10 |
| N459372 | | 2.02 | 1715 | <1 | 1.61 | 1 | 1800 | 5 | 0.13 | <5 | 38 | 173 | <20 | 1.47 | <10 | <10 |
| N459373 | | 1.76 | 3930 | 1 | 0.57 | 4 | 1260 | <2 | 0.02 | <5 | 35 | 132 | <20 | 1.28 | <10 | <10 |
| N459374 | | 2.38 | 1190 | 1 | 2.07 | 6 | 1370 | 3 | 0.55 | 5 | 37 | 95 | <20 | 1.31 | <10 | <10 |
| N459375 | | 2.71 | 1275 | <1 | 3.35 | 101 | 280 | <2 | 0.08 | <5 | 36 | 49 | <20 | 0.67 | <10 | <10 |
| N459376 | | 2.01 | 1065 | 1 | 3.23 | 116 | 310 | 3 | 0.05 | <5 | 41 | 77 | <20 | 0.73 | <10 | <10 |
| N459377 | | 2.85 | 1285 | 1 | 2.57 | 117 | 310 | 3 | 0.07 | 5 | 42 | 128 | <20 | 0.75 | <10 | <10 |
| N459378 | | 1.70 | 1475 | 1 | 0.86 | 184 | 280 | <2 | 0.41 | 7 | 36 | 216 | <20 | 0.63 | 10 | <10 |
| N459379 | | 2.71 | 1920 | <1 | 1.39 | 27 | 610 | <2 | 0.13 | 8 | 42 | 44 | <20 | 1.05 | <10 | <10 |
| N459380 | | 2.38 | 1975 | 1 | 1.40 | 43 | 520 | 3 | 0.44 | <5 | 41 | 84 | <20 | 0.94 | 10 | <10 |
| N459381 | | 2.84 | 1560 | 1 | 0.72 | 64 | 470 | <2 | 0.18 | <5 | 42 | 146 | <20 | 0.90 | <10 | <10 |
| N459382 | | 2.02 | 1485 | <1 | 1.98 | 102 | 300 | <2 | 0.08 | <5 | 39 | 98 | <20 | 0.72 | <10 | <10 |
| N459383 | | 3.33 | 1420 | <1 | 1.31 | 74 | 420 | 5 | 0.09 | <5 | 40 | 242 | <20 | 0.83 | <10 | <10 |
| N459384 | | 5.16 | 1370 | <1 | 1.77 | 106 | 220 | <2 | 0.07 | 8 | 39 | 108 | <20 | 0.47 | <10 | <10 |
| N459385 | | 2.61 | 764 | <1 | 0.12 | 62 | 570 | 3 | 0.02 | <5 | 40 | 20 | <20 | 0.79 | <10 | <10 |
| N459386 | | 4.60 | 1570 | 1 | 2.50 | 102 | 440 | 2 | 0.10 | <5 | 43 | 118 | <20 | 0.76 | <10 | <10 |
| N459387 | | 4.99 | 1475 | 1 | 1.06 | 115 | 220 | <2 | 0.03 | 5 | 41 | 180 | <20 | 0.48 | <10 | <10 |
| N459388 | | 6.76 | 1205 | <1 | 1.02 | 236 | 140 | <2 | 0.05 | <5 | 25 | 81 | <20 | 0.32 | <10 | <10 |
| N459389 | | 2.84 | 1455 | 1 | 2.91 | 123 | 290 | <2 | 0.04 | 6 | 40 | 88 | <20 | 0.60 | <10 | <10 |
| N459390 | | 5.98 | 1260 | 1 | 1.86 | 97 | 150 | 2 | 0.03 | <5 | 29 | 104 | <20 | 0.35 | <10 | <10 |

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| N433820 | | 114 | <10 | 45 |
| N433821 | | 182 | <10 | 72 |
| N433822 | | 272 | <10 | 90 |
| N433823 | | 335 | <10 | 128 |
| N433824 | | 347 | <10 | 178 |
| N433825 | | 187 | <10 | 74 |
| N433826 | | 253 | <10 | 75 |
| N433827 | | 167 | <10 | 92 |
| N433828 | | 214 | 10 | 75 |
| N433829 | | 167 | <10 | 64 |
| N433830 | | 330 | <10 | 215 |
| N459362 | | 322 | <10 | 92 |
| N459363 | | 305 | <10 | 70 |
| N459364 | | 275 | <10 | 77 |
| N459365 | | 256 | <10 | 62 |
| N459366 | | 77 | <10 | 47 |
| N459367 | | 325 | <10 | 82 |
| N459368 | | 338 | <10 | 75 |
| N459369 | | 277 | <10 | 73 |
| N459370 | | 150 | <10 | 124 |
| N459371 | | 295 | <10 | 111 |
| N459372 | | 185 | <10 | 116 |
| N459373 | | 257 | <10 | 105 |
| N459374 | | 272 | <10 | 100 |
| N459375 | | 311 | <10 | 91 |
| N459376 | | 355 | <10 | 63 |
| N459377 | | 371 | <10 | 82 |
| N459378 | | 317 | <10 | 67 |
| N459379 | | 421 | <10 | 151 |
| N459380 | | 390 | <10 | 148 |
| N459381 | | 381 | <10 | 104 |
| N459382 | | 360 | <10 | 72 |
| N459383 | | 373 | <10 | 91 |
| N459384 | | 271 | <10 | 69 |
| N459385 | | 319 | <10 | 59 |
| N459386 | | 351 | <10 | 102 |
| N459387 | | 272 | <10 | 93 |
| N459388 | | 190 | <10 | 65 |
| N459389 | | 312 | <10 | 80 |
| N459390 | | 205 | <10 | 72 |

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# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| N459391 | | <0.5 | 7.25 | <5 | 30 | <0.5 | 4 | 4.51 | 0.6 | 50 | 119 | 105 | 11.05 | 20 | 0.02 | <10 |
| N459392 | | <0.5 | 3.83 | <5 | 80 | <0.5 | <2 | 4.61 | <0.5 | 72 | 1055 | 40 | 6.65 | 10 | 0.17 | <10 |
| N459393 | | <0.5 | 6.13 | 26 | 890 | 1.5 | <2 | 6.11 | <0.5 | 43 | 473 | 33 | 7.43 | 20 | 1.91 | 20 |
| N459394 | | <0.5 | 7.65 | 5 | 1900 | 1.4 | <2 | 1.17 | <0.5 | 5 | 40 | 13 | 1.52 | 20 | 2.26 | 40 |
| N459395 | | <0.5 | 7.63 | 5 | 550 | 1.1 | <2 | 2.16 | <0.5 | 26 | 235 | 43 | 4.08 | 20 | 1.23 | 50 |
| N459396 | | <0.5 | 5.59 | <5 | 70 | <0.5 | <2 | 5.13 | <0.5 | 59 | 678 | 37 | 7.92 | 10 | 0.63 | <10 |
| N459397 | | <0.5 | 5.55 | <5 | 140 | 0.5 | <2 | 5.33 | <0.5 | 68 | 964 | 60 | 7.85 | 10 | 1.13 | <10 |
| N459398 | | <0.5 | 6.30 | <5 | 140 | <0.5 | <2 | 4.35 | <0.5 | 92 | 1305 | 2 | 9.52 | 10 | 0.27 | <10 |
| N459399 | | <0.5 | 8.32 | <5 | 150 | 4.0 | <2 | 2.66 | <0.5 | 22 | 80 | 48 | 3.62 | 30 | 4.44 | 10 |
| N459400 | | <0.5 | 7.50 | <5 | 350 | 1.5 | <2 | 3.21 | <0.5 | 25 | 245 | 81 | 3.84 | 20 | 0.37 | 40 |
| N459401 | | <0.5 | 3.66 | <5 | 20 | <0.5 | <2 | 3.56 | 0.5 | 84 | 1320 | 39 | 7.22 | 10 | 0.03 | <10 |
| N459402 | | <0.5 | 6.27 | <5 | 2000 | 1.2 | <2 | 6.40 | <0.5 | 23 | 185 | 60 | 3.43 | 10 | 0.77 | 40 |
| N459403 | | <0.5 | 3.26 | <5 | 480 | <0.5 | <2 | 3.98 | <0.5 | 80 | 1410 | 33 | 6.45 | 10 | 0.06 | <10 |
| N459404 | | <0.5 | 8.40 | 15 | 2070 | 2.3 | <2 | 1.09 | <0.5 | 12 | 33 | 24 | 2.67 | 20 | 4.38 | 50 |
| N459405 | | <0.5 | 7.80 | <5 | 1440 | 1.1 | <2 | 1.20 | <0.5 | 18 | 78 | 11 | 3.70 | 20 | 2.13 | 30 |
| N459406 | | <0.5 | 6.98 | <5 | 940 | 1.4 | <2 | 2.55 | <0.5 | 16 | 91 | 30 | 3.43 | 20 | 1.76 | 20 |
| N459407 | | <0.5 | 7.42 | <5 | 1930 | 1.5 | <2 | 2.33 | <0.5 | 15 | 101 | 24 | 3.10 | 20 | 2.79 | 30 |
| N459408 | | <0.5 | 7.62 | <5 | 790 | 1.2 | <2 | 2.07 | <0.5 | 16 | 51 | 13 | 3.29 | 20 | 2.11 | 20 |
| N459409 | | <0.5 | 8.19 | <5 | 830 | 1.4 | <2 | 2.47 | <0.5 | 15 | 71 | 24 | 2.99 | 20 | 1.25 | 30 |
| N459410 | | <0.5 | 7.72 | 8 | 2330 | 2.3 | <2 | 2.04 | <0.5 | 12 | 34 | 50 | 3.20 | 20 | 4.14 | 50 |
| I275560 | | <0.5 | 7.57 | 5 | 90 | <0.5 | <2 | 6.94 | <0.5 | 38 | 189 | 114 | 6.57 | 20 | 0.29 | 10 |
| I275561 | | <0.5 | 6.92 | 6 | 100 | <0.5 | <2 | 6.20 | 0.5 | 42 | 186 | 118 | 7.40 | 20 | 0.22 | <10 |
| I275562 | | <0.5 | 7.02 | 7 | 60 | <0.5 | 2 | 7.07 | 0.7 | 44 | 63 | 172 | 8.93 | 20 | 0.11 | <10 |
| I275563 | | <0.5 | 7.01 | <5 | 60 | <0.5 | <2 | 4.27 | 0.5 | 45 | 242 | 96 | 7.60 | 20 | 0.07 | <10 |
| I275564 | | <0.5 | 7.31 | <5 | 130 | <0.5 | <2 | 5.69 | <0.5 | 46 | 245 | 114 | 7.35 | 20 | 0.21 | <10 |
| I275565 | | <0.5 | 7.30 | <5 | 20 | <0.5 | 2 | 6.43 | <0.5 | 35 | 129 | 90 | 8.10 | 20 | 0.02 | 10 |
| I275566 | | <0.5 | 7.96 | 5 | 150 | 3.9 | <2 | 2.59 | <0.5 | 23 | 82 | 44 | 3.48 | 30 | 4.28 | 10 |
| I275567 | | <0.5 | 7.33 | 6 | 90 | <0.5 | <2 | 4.40 | 0.6 | 41 | 133 | 89 | 6.70 | 20 | 0.10 | 10 |
| I275568 | | <0.5 | 6.81 | <5 | 20 | <0.5 | <2 | 3.74 | 0.5 | 50 | 255 | 55 | 8.73 | 20 | 0.02 | <10 |
| I275569 | | <0.5 | 6.61 | 5 | 60 | <0.5 | <2 | 5.19 | 0.6 | 46 | 13 | 83 | 11.75 | 20 | 0.12 | 10 |
| I275570 | | <0.5 | 7.31 | <5 | 50 | <0.5 | <2 | 5.29 | <0.5 | 43 | 228 | 88 | 6.65 | 20 | 0.05 | <10 |
| I275571 | | <0.5 | 6.15 | 8 | 50 | <0.5 | 3 | 6.10 | 0.7 | 43 | 4 | 118 | 10.60 | 20 | 0.06 | 10 |
| I275572 | | <0.5 | 6.95 | <5 | 70 | <0.5 | <2 | 6.87 | <0.5 | 39 | 149 | 79 | 7.40 | 20 | 0.08 | 10 |
| I275573 | | <0.5 | 8.20 | <5 | 90 | <0.5 | <2 | 3.41 | <0.5 | 48 | 231 | 96 | 6.54 | 20 | 0.08 | <10 |
| I275574 | | <0.5 | 7.20 | <5 | 20 | <0.5 | <2 | 7.15 | 0.6 | 43 | 189 | 109 | 8.27 | 20 | 0.02 | <10 |
| I275575 | | <0.5 | 8.31 | 12 | 40 | <0.5 | <2 | 5.74 | <0.5 | 50 | 262 | 122 | 7.34 | 20 | 0.06 | <10 |
| I275576 | | <0.5 | 7.35 | 9 | 50 | <0.5 | <2 | 5.17 | 0.5 | 40 | 129 | 87 | 8.92 | 20 | 0.08 | <10 |
| I275577 | | <0.5 | 7.42 | 11 | 120 | <0.5 | <2 | 4.28 | <0.5 | 38 | 222 | 92 | 7.25 | 20 | 0.13 | <10 |
| I275578 | | <0.5 | 8.84 | 13 | 90 | <0.5 | <2 | 6.22 | 0.5 | 50 | 237 | 127 | 8.51 | 20 | 0.11 | <10 |
| I275579 | | <0.5 | 7.55 | 7 | 140 | <0.5 | <2 | 5.84 | <0.5 | 45 | 192 | 116 | 8.13 | 20 | 0.33 | <10 |

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

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


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| N459391 | | 3.88 | 1825 | 2 | 1.57 | 81 | 830 | 2 | 0.12 | <5 | 43 | 33 | <20 | 1.22 | <10 | <10 |
| N459392 | | 11.05 | 1140 | <1 | 0.01 | 810 | 140 | <2 | 0.02 | 5 | 22 | 282 | <20 | 0.08 | <10 | <10 |
| N459393 | | 5.37 | 1195 | 1 | 0.69 | 159 | 1680 | 6 | 0.13 | 10 | 32 | 1445 | <20 | 0.30 | <10 | <10 |
| N459394 | | 0.58 | 385 | 1 | 4.61 | 18 | 450 | 9 | 0.11 | 6 | 4 | 595 | <20 | 0.13 | <10 | <10 |
| N459395 | | 2.99 | 631 | <1 | 4.49 | 128 | 1280 | 10 | 0.15 | <5 | 10 | 560 | <20 | 0.17 | <10 | <10 |
| N459396 | | 9.15 | 1365 | <1 | 1.76 | 248 | 220 | 3 | 0.05 | 6 | 35 | 106 | <20 | 0.35 | <10 | <10 |
| N459397 | | 8.56 | 1345 | 1 | 1.83 | 477 | 210 | 6 | 0.01 | <5 | 33 | 228 | <20 | 0.34 | <10 | <10 |
| N459398 | | 13.65 | 1675 | <1 | 0.21 | 702 | 240 | 3 | <0.01 | 16 | 40 | 61 | <20 | 0.41 | <10 | <10 |
| N459399 | | 2.10 | 538 | 2 | 3.45 | 87 | 1170 | 40 | 0.01 | <5 | 6 | 356 | <20 | 0.64 | <10 | <10 |
| N459400 | | 3.66 | 740 | <1 | 5.09 | 130 | 1330 | 10 | 0.43 | <5 | 12 | 751 | <20 | 0.31 | 10 | <10 |
| N459401 | | 15.05 | 1170 | <1 | 0.08 | 1210 | 80 | 2 | 0.03 | <5 | 23 | 91 | <20 | 0.21 | <10 | <10 |
| N459402 | | 2.75 | 1020 | 2 | 3.57 | 99 | 1090 | 17 | 0.31 | 6 | 10 | 1410 | <20 | 0.24 | <10 | <10 |
| N459403 | | 12.60 | 1230 | <1 | 0.01 | 1060 | 80 | 3 | 0.21 | <5 | 20 | 358 | <20 | 0.08 | <10 | <10 |
| N459404 | | 0.59 | 617 | 5 | 4.23 | 15 | 1010 | 11 | 1.02 | <5 | 6 | 675 | 20 | 0.16 | <10 | <10 |
| N459405 | | 1.94 | 572 | 1 | 3.69 | 48 | 940 | 13 | 0.01 | 6 | 11 | 567 | <20 | 0.27 | <10 | <10 |
| N459406 | | 1.78 | 676 | <1 | 3.83 | 55 | 820 | 7 | 0.28 | <5 | 10 | 614 | <20 | 0.25 | 10 | <10 |
| N459407 | | 1.80 | 594 | <1 | 3.81 | 42 | 1010 | 33 | 0.05 | 5 | 9 | 623 | <20 | 0.27 | <10 | <10 |
| N459408 | | 1.67 | 513 | <1 | 3.47 | 36 | 820 | 14 | 0.15 | 10 | 10 | 326 | <20 | 0.25 | <10 | <10 |
| N459409 | | 1.63 | 575 | <1 | 4.98 | 41 | 880 | 11 | 0.14 | <5 | 8 | 909 | <20 | 0.24 | <10 | <10 |
| N459410 | | 1.04 | 672 | 1 | 3.71 | 16 | 1200 | 16 | 0.69 | <5 | 7 | 1220 | <20 | 0.22 | <10 | <10 |
| I275560 | | 4.12 | 1385 | <1 | 1.67 | 95 | 390 | <2 | 0.04 | <5 | 40 | 141 | <20 | 0.68 | <10 | <10 |
| I275561 | | 4.89 | 1305 | <1 | 1.80 | 66 | 190 | 7 | 0.20 | <5 | 39 | 113 | <20 | 0.43 | <10 | <10 |
| I275562 | | 4.08 | 1470 | <1 | 1.18 | 50 | 290 | <2 | 0.09 | <5 | 47 | 124 | <20 | 0.63 | <10 | <10 |
| I275563 | | 5.16 | 1465 | <1 | 2.20 | 101 | 190 | 2 | 0.04 | 6 | 29 | 73 | <20 | 0.43 | <10 | <10 |
| I275564 | | 5.06 | 1610 | <1 | 1.61 | 92 | 180 | 5 | 0.07 | 5 | 34 | 115 | <20 | 0.48 | <10 | <10 |
| I275565 | | 3.52 | 1360 | <1 | 1.31 | 60 | 290 | 4 | 0.03 | <5 | 38 | 188 | <20 | 0.61 | <10 | <10 |
| I275566 | | 2.02 | 505 | <1 | 3.34 | 84 | 1120 | 36 | 0.01 | <5 | 6 | 349 | <20 | 0.60 | <10 | <10 |
| I275567 | | 3.72 | 1495 | <1 | 2.76 | 69 | 300 | <2 | 0.06 | 8 | 39 | 97 | <20 | 0.61 | <10 | <10 |
| I275568 | | 6.05 | 1420 | <1 | 1.43 | 110 | 210 | 3 | 0.02 | 5 | 25 | 68 | <20 | 0.46 | <10 | <10 |
| I275569 | | 3.47 | 1505 | <1 | 0.81 | 40 | 700 | 2 | 0.52 | <5 | 43 | 206 | <20 | 1.20 | <10 | <10 |
| I275570 | | 4.64 | 1385 | <1 | 1.89 | 98 | 220 | 2 | 0.10 | 8 | 33 | 156 | <20 | 0.45 | <10 | <10 |
| I275571 | | 2.75 | 1570 | <1 | 1.35 | 20 | 430 | 5 | 0.11 | <5 | 47 | 137 | <20 | 0.87 | <10 | <10 |
| I275572 | | 4.08 | 1305 | <1 | 1.96 | 87 | 350 | 4 | 0.07 | 6 | 35 | 111 | <20 | 0.61 | <10 | <10 |
| I275573 | | 2.64 | 1220 | <1 | 4.09 | 114 | 330 | <2 | 0.12 | <5 | 39 | 68 | <20 | 0.77 | <10 | <10 |
| I275574 | | 3.09 | 1350 | <1 | 0.85 | 103 | 280 | 3 | 0.13 | <5 | 36 | 146 | <20 | 0.63 | <10 | <10 |
| I275575 | | 2.49 | 1430 | <1 | 2.55 | 157 | 220 | <2 | 0.06 | <5 | 42 | 98 | <20 | 0.59 | <10 | <10 |
| I275576 | | 3.07 | 1530 | <1 | 1.35 | 70 | 450 | 2 | 0.10 | <5 | 36 | 154 | <20 | 0.85 | <10 | <10 |
| I275577 | | 2.26 | 1160 | <1 | 1.67 | 96 | 250 | 2 | 0.03 | <5 | 35 | 125 | <20 | 0.70 | <10 | <10 |
| I275578 | | 2.60 | 1520 | <1 | 2.19 | 122 | 310 | 2 | 0.01 | <5 | 44 | 180 | <20 | 0.77 | <10 | <10 |
| I275579 | | 3.22 | 1505 | <1 | 2.06 | 106 | 280 | <2 | 0.09 | <5 | 38 | 39 | <20 | 0.65 | <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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| N459391 | | 448 | <10 | 121 |
| N459392 | | 145 | <10 | 87 |
| N459393 | | 216 | 10 | 121 |
| N459394 | | 23 | 10 | 22 |
| N459395 | | 101 | <10 | 89 |
| N459396 | | 217 | <10 | 83 |
| N459397 | | 210 | <10 | 83 |
| N459398 | | 228 | <10 | 107 |
| N459399 | | 83 | <10 | 48 |
| N459400 | | 101 | <10 | 64 |
| N459401 | | 134 | <10 | 65 |
| N459402 | | 88 | 10 | 56 |
| N459403 | | 124 | <10 | 57 |
| N459404 | | 42 | 10 | 34 |
| N459405 | | 100 | <10 | 82 |
| N459406 | | 96 | <10 | 66 |
| N459407 | | 80 | <10 | 65 |
| N459408 | | 84 | <10 | 69 |
| N459409 | | 84 | <10 | 67 |
| N459410 | | 77 | <10 | 58 |
| I275560 | | 329 | <10 | 85 |
| I275561 | | 262 | <10 | 68 |
| I275562 | | 356 | <10 | 83 |
| I275563 | | 258 | <10 | 81 |
| I275564 | | 302 | <10 | 76 |
| I275565 | | 335 | <10 | 72 |
| I275566 | | 80 | <10 | 47 |
| I275567 | | 337 | <10 | 70 |
| I275568 | | 298 | <10 | 108 |
| I275569 | | 499 | <10 | 123 |
| I275570 | | 263 | <10 | 77 |
| I275571 | | 454 | <10 | 115 |
| I275572 | | 308 | <10 | 76 |
| I275573 | | 379 | <10 | 81 |
| I275574 | | 321 | <10 | 86 |
| I275575 | | 332 | <10 | 79 |
| I275576 | | 366 | <10 | 90 |
| I275577 | | 317 | <10 | 69 |
| I275578 | | 394 | <10 | 90 |
| I275579 | | 332 | <10 | 86 |

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

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| I275580 | | <0.5 | 7.90 | 5 | 60 | <0.5 | <2 | 2.31 | <0.5 | 27 | 96 | 7 | 6.38 | 20 | 0.08 | 10 |
| I275581 | | <0.5 | 7.62 | <5 | 20 | 0.5 | <2 | 6.34 | 0.5 | 48 | 233 | 123 | 8.69 | 20 | 0.02 | <10 |
| I275582 | | <0.5 | 7.44 | <5 | 60 | <0.5 | <2 | 7.22 | <0.5 | 42 | 231 | 120 | 5.76 | 20 | 0.06 | <10 |
| I275583 | | <0.5 | 6.98 | 7 | 40 | <0.5 | 2 | 5.69 | 0.5 | 41 | 126 | 95 | 9.31 | 20 | 0.02 | <10 |
| I275584 | | <0.5 | 7.20 | 6 | 90 | <0.5 | <2 | 7.24 | 0.5 | 58 | 230 | 91 | 7.58 | 20 | 0.23 | <10 |
| I275585 | | <0.5 | 7.48 | 8 | 100 | <0.5 | <2 | 4.34 | <0.5 | 44 | 178 | 91 | 7.03 | 20 | 0.12 | 10 |
| I275586 | | <0.5 | 7.33 | 7 | 40 | <0.5 | <2 | 6.53 | 0.5 | 50 | 117 | 131 | 10.40 | 20 | 0.02 | 10 |
| I275587 | | <0.5 | 7.39 | <5 | 30 | 0.5 | <2 | 6.38 | 0.7 | 48 | 124 | 86 | 14.85 | 20 | 0.01 | 10 |
| I275588 | | <0.5 | 8.14 | <5 | 390 | 0.6 | <2 | 3.07 | <0.5 | 18 | 43 | 36 | 4.29 | 20 | 0.96 | 10 |
| I275589 | | <0.5 | 7.40 | <5 | 230 | <0.5 | <2 | 6.82 | <0.5 | 47 | 190 | 74 | 6.51 | 10 | 0.49 | <10 |
| I275590 | | <0.5 | 7.37 | 7 | 40 | <0.5 | 2 | 5.32 | 0.5 | 48 | 217 | 119 | 9.15 | 20 | 0.02 | <10 |
| I275591 | | <0.5 | 7.23 | <5 | 30 | <0.5 | <2 | 7.12 | 0.7 | 41 | 195 | 109 | 8.52 | 20 | 0.02 | <10 |
| I275592 | | <0.5 | 7.41 | 7 | 320 | 0.5 | <2 | 2.50 | 0.6 | 56 | 137 | 128 | 12.15 | 20 | 0.90 | <10 |
| I275593 | | <0.5 | 7.01 | <5 | 120 | <0.5 | <2 | 3.29 | <0.5 | 47 | 205 | 99 | 7.57 | 20 | 0.45 | <10 |
| I275594 | | <0.5 | 8.27 | 20 | 60 | <0.5 | <2 | 5.51 | <0.5 | 51 | 259 | 121 | 5.92 | 10 | 0.03 | <10 |
| I275595 | | <0.5 | 7.24 | <5 | 50 | <0.5 | <2 | 6.75 | 0.9 | 45 | 200 | 120 | 9.14 | 20 | 0.09 | <10 |
| I275596 | | <0.5 | 6.64 | 13 | 1030 | 0.9 | <2 | 1.93 | <0.5 | 10 | 64 | 27 | 1.56 | 20 | 1.67 | 20 |
| I275597 | | <0.5 | 7.63 | 11 | 1760 | 1.8 | 6 | 1.13 | <0.5 | 6 | 44 | 17 | 1.66 | 20 | 3.34 | 30 |
| I275598 | | <0.5 | 5.86 | <5 | 1030 | 0.9 | <2 | 1.64 | <0.5 | 11 | 97 | 35 | 2.24 | 20 | 1.01 | 20 |
| I275599 | | <0.5 | 7.90 | <5 | 130 | 4.3 | <2 | 2.55 | <0.5 | 22 | 72 | 34 | 3.41 | 30 | 4.27 | 10 |
| I275600 | | <0.5 | 6.98 | 6 | 1020 | 1.1 | <2 | 1.98 | <0.5 | 13 | 83 | 28 | 2.68 | 20 | 1.18 | 20 |
| I275601 | | <0.5 | 6.86 | 18 | 1270 | 1.7 | <2 | 2.30 | <0.5 | 12 | 96 | 42 | 2.28 | 20 | 1.84 | 20 |
| I275602 | | <0.5 | 5.78 | 7 | 600 | 1.2 | <2 | 3.26 | <0.5 | 43 | 296 | 198 | 5.88 | 20 | 0.79 | 30 |
| I275603 | | <0.5 | 5.28 | 9 | 130 | <0.5 | <2 | 4.91 | <0.5 | 75 | 1145 | 65 | 8.16 | 10 | 0.91 | <10 |
| I275604 | | <0.5 | 7.02 | <5 | 1930 | 1.7 | <2 | 3.28 | <0.5 | 25 | 165 | 50 | 4.44 | 20 | 3.13 | 50 |
| I275605 | | <0.5 | 5.32 | 7 | 1920 | 1.3 | 4 | 5.02 | <0.5 | 45 | 525 | 11 | 6.13 | 20 | 1.77 | 50 |
| I275606 | | <0.5 | 6.99 | <5 | 1610 | 1.0 | <2 | 1.85 | <0.5 | 8 | 56 | 2 | 1.96 | 20 | 0.46 | 30 |
| I275607 | | <0.5 | 7.31 | <5 | 2080 | 2.1 | 2 | 4.18 | <0.5 | 29 | 109 | 35 | 4.52 | 20 | 2.07 | 90 |
| I275608 | | <0.5 | 6.88 | <5 | 1090 | 1.0 | <2 | 1.91 | <0.5 | 10 | 78 | 22 | 2.30 | 20 | 1.51 | 20 |
| I275609 | | <0.5 | 5.76 | <5 | 530 | 1.3 | <2 | 3.54 | <0.5 | 27 | 229 | 29 | 4.19 | 20 | 1.02 | 40 |
| I275610 | | <0.5 | 7.37 | 8 | 1300 | 1.0 | <2 | 1.35 | <0.5 | 8 | 20 | 178 | 1.83 | 20 | 1.21 | 40 |
| I275611 | | <0.5 | 7.19 | <5 | 1460 | 1.4 | <2 | 3.44 | <0.5 | 22 | 200 | 30 | 3.66 | 20 | 2.18 | 40 |
| I275612 | | <0.5 | 6.82 | <5 | 1570 | 1.4 | <2 | 5.39 | <0.5 | 39 | 317 | 68 | 6.05 | 20 | 1.40 | 50 |
| I275613 | | <0.5 | 7.20 | <5 | 1830 | 1.3 | <2 | 2.60 | <0.5 | 12 | 84 | 15 | 2.33 | 20 | 1.69 | 20 |
| I275614 | | <0.5 | 7.26 | <5 | 280 | <0.5 | <2 | 3.92 | <0.5 | 34 | 394 | 170 | 6.19 | 20 | 1.96 | <10 |
| I275615 | | <0.5 | 7.55 | <5 | 190 | 1.5 | <2 | 5.43 | <0.5 | 21 | 12 | 66 | 5.70 | 20 | 0.38 | 50 |
| I275616 | | <0.5 | 8.07 | 17 | 1770 | 1.6 | <2 | 0.16 | <0.5 | 7 | 17 | 29 | 1.88 | 20 | 3.40 | 50 |
| I275617 | | <0.5 | 7.09 | 5 | 480 | 1.1 | <2 | 2.22 | <0.5 | 22 | 140 | 7 | 3.47 | 20 | 1.34 | 30 |
| I275618 | | <0.5 | 6.94 | 7 | 1060 | 1.1 | <2 | 2.18 | <0.5 | 20 | 97 | 34 | 3.51 | 20 | 1.64 | 10 |
| I275619 | | <0.5 | 7.47 | 11 | 210 | 1.0 | <2 | 5.97 | <0.5 | 12 | 40 | 10 | 2.72 | 20 | 0.61 | 30 |

***** 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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275580 | | 3.07 | 1055 | <1 | 4.09 | 26 | 440 | <2 | 0.03 | 6 | 30 | 67 | <20 | 0.62 | <10 | <10 |
| I275581 | | 3.28 | 2850 | <1 | 1.05 | 132 | 220 | 2 | 0.01 | 6 | 39 | 141 | <20 | 0.54 | <10 | <10 |
| I275582 | | 2.08 | 1175 | <1 | 2.07 | 111 | 180 | <2 | 0.13 | <5 | 37 | 99 | <20 | 0.51 | 10 | <10 |
| I275583 | | 4.04 | 1505 | <1 | 1.37 | 73 | 420 | <2 | 0.09 | <5 | 40 | 193 | <20 | 0.84 | <10 | <10 |
| I275584 | | 6.16 | 1515 | <1 | 0.79 | 275 | 150 | <2 | 0.06 | <5 | 28 | 111 | <20 | 0.37 | <10 | <10 |
| I275585 | | 3.75 | 1130 | <1 | 2.42 | 95 | 430 | 3 | 0.15 | <5 | 38 | 187 | <20 | 0.71 | <10 | <10 |
| I275586 | | 2.52 | 2300 | <1 | 2.21 | 82 | 870 | 5 | 0.11 | <5 | 43 | 93 | <20 | 1.21 | <10 | <10 |
| I275587 | | 4.01 | 3120 | <1 | 0.41 | 78 | 810 | 6 | 0.10 | 5 | 42 | 373 | <20 | 1.21 | <10 | <10 |
| I275588 | | 2.39 | 630 | <1 | 3.67 | 69 | 420 | 2 | <0.01 | <5 | 13 | 213 | <20 | 0.41 | <10 | <10 |
| I275589 | | 5.86 | 1400 | <1 | 0.92 | 181 | 140 | <2 | 0.03 | <5 | 24 | 125 | <20 | 0.31 | <10 | <10 |
| I275590 | | 2.93 | 2060 | <1 | 2.13 | 111 | 480 | <2 | 0.07 | 5 | 40 | 174 | <20 | 0.87 | <10 | <10 |
| I275591 | | 2.39 | 1825 | <1 | 2.15 | 103 | 480 | 4 | 0.10 | 7 | 39 | 239 | <20 | 0.79 | <10 | <10 |
| I275592 | | 3.96 | 1405 | <1 | 0.03 | 93 | 790 | <2 | 0.19 | 5 | 43 | 26 | <20 | 1.27 | <10 | <10 |
| I275593 | | 3.98 | 1145 | <1 | 1.72 | 105 | 380 | <2 | 0.06 | <5 | 33 | 48 | <20 | 0.60 | <10 | <10 |
| I275594 | | 3.41 | 1525 | <1 | 3.12 | 116 | 230 | 2 | 0.06 | <5 | 40 | 128 | <20 | 0.51 | <10 | <10 |
| I275595 | | 4.27 | 1375 | 2 | 1.72 | 107 | 470 | 3 | 0.06 | <5 | 39 | 135 | <20 | 0.81 | <10 | <10 |
| I275596 | | 0.99 | 400 | 2 | 4.28 | 46 | 150 | 10 | 0.03 | <5 | 5 | 528 | <20 | 0.11 | <10 | <10 |
| I275597 | | 0.61 | 366 | <1 | 3.06 | 22 | 490 | 18 | 0.22 | <5 | 4 | 523 | <20 | 0.11 | <10 | <10 |
| I275598 | | 1.05 | 329 | 6 | 3.86 | 36 | 570 | 30 | 0.96 | <5 | 5 | 444 | <20 | 0.14 | <10 | <10 |
| I275599 | | 1.98 | 491 | 2 | 3.41 | 77 | 1150 | 43 | 0.01 | <5 | 6 | 315 | <20 | 0.59 | 10 | <10 |
| I275600 | | 1.44 | 466 | 1 | 4.24 | 37 | 800 | 18 | 0.16 | <5 | 6 | 591 | <20 | 0.29 | <10 | <10 |
| I275601 | | 1.18 | 378 | <1 | 3.76 | 44 | 790 | 12 | 0.68 | <5 | 6 | 587 | <20 | 0.23 | <10 | <10 |
| I275602 | | 5.23 | 786 | <1 | 1.96 | 82 | 1620 | 6 | 0.23 | <5 | 20 | 326 | <20 | 0.39 | <10 | <10 |
| I275603 | | 10.80 | 1595 | <1 | 1.06 | 620 | 200 | 6 | 0.02 | <5 | 32 | 104 | <20 | 0.33 | <10 | <10 |
| I275604 | | 2.93 | 681 | <1 | 3.60 | 59 | 1820 | 20 | 0.38 | <5 | 14 | 1030 | <20 | 0.35 | <10 | <10 |
| I275605 | | 6.85 | 1150 | <1 | 1.08 | 139 | 1750 | 13 | 0.05 | <5 | 29 | 851 | <20 | 0.39 | <10 | <10 |
| I275606 | | 0.95 | 428 | <1 | 5.72 | 22 | 520 | 12 | 0.39 | 5 | 4 | 756 | <20 | 0.13 | <10 | <10 |
| I275607 | | 3.49 | 823 | 29 | 3.68 | 113 | 3210 | 19 | 0.10 | <5 | 13 | 1415 | 20 | 0.40 | <10 | <10 |
| I275608 | | 1.17 | 358 | <1 | 4.52 | 32 | 710 | 11 | 0.10 | <5 | 5 | 504 | <20 | 0.19 | <10 | <10 |
| I275609 | | 3.51 | 879 | <1 | 3.67 | 102 | 780 | 9 | 0.14 | 6 | 14 | 747 | <20 | 0.13 | <10 | <10 |
| I275610 | | 0.48 | 358 | 2 | 5.83 | 8 | 1750 | 20 | 0.66 | <5 | 3 | 645 | <20 | 0.14 | <10 | <10 |
| I275611 | | 2.90 | 658 | 1 | 3.46 | 111 | 1230 | 14 | 0.16 | <5 | 11 | 916 | <20 | 0.29 | <10 | <10 |
| I275612 | | 4.81 | 1115 | 2 | 2.80 | 111 | 1690 | 13 | 0.05 | <5 | 22 | 1115 | 20 | 0.41 | <10 | <10 |
| I275613 | | 1.46 | 389 | 1 | 4.44 | 36 | 830 | 17 | 0.07 | <5 | 6 | 854 | <20 | 0.24 | <10 | <10 |
| I275614 | | 4.24 | 804 | <1 | 1.32 | 94 | 180 | 2 | 0.04 | <5 | 31 | 52 | <20 | 0.19 | <10 | <10 |
| I275615 | | 1.78 | 1205 | <1 | 4.76 | 7 | 2110 | 19 | 0.17 | 11 | 10 | 856 | <20 | 0.37 | <10 | <10 |
| I275616 | | 0.07 | 221 | 15 | 5.15 | 10 | 360 | 12 | 0.79 | <5 | 3 | 586 | <20 | 0.12 | <10 | <10 |
| I275617 | | 2.40 | 561 | <1 | 3.66 | 88 | 910 | 14 | 0.37 | <5 | 11 | 361 | <20 | 0.20 | <10 | <10 |
| I275618 | | 2.28 | 498 | <1 | 3.31 | 66 | 730 | 14 | 0.26 | <5 | 10 | 525 | <20 | 0.20 | <10 | <10 |
| I275619 | | 1.40 | 876 | 18 | 4.78 | 28 | 950 | 12 | 0.86 | 7 | 9 | 802 | <20 | 0.22 | <10 | <10 |

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

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


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| I275580 | | 262 | <10 | 92 |
| I275581 | | 317 | <10 | 89 |
| I275582 | | 287 | <10 | 61 |
| I275583 | | 378 | <10 | 89 |
| I275584 | | 223 | <10 | 67 |
| I275585 | | 323 | <10 | 97 |
| I275586 | | 446 | <10 | 111 |
| I275587 | | 474 | <10 | 141 |
| I275588 | | 152 | <10 | 59 |
| I275589 | | 193 | <10 | 78 |
| I275590 | | 384 | <10 | 98 |
| I275591 | | 353 | <10 | 81 |
| I275592 | | 496 | <10 | 119 |
| I275593 | | 322 | <10 | 91 |
| I275594 | | 299 | <10 | 77 |
| I275595 | | 359 | <10 | 80 |
| I275596 | | 32 | <10 | 19 |
| I275597 | | 38 | <10 | 24 |
| I275598 | | 58 | 10 | 32 |
| I275599 | | 74 | <10 | 45 |
| I275600 | | 65 | <10 | 57 |
| I275601 | | 72 | <10 | 29 |
| I275602 | | 158 | 10 | 73 |
| I275603 | | 208 | <10 | 97 |
| I275604 | | 115 | <10 | 79 |
| I275605 | | 183 | <10 | 109 |
| I275606 | | 34 | <10 | 35 |
| I275607 | | 154 | <10 | 90 |
| I275608 | | 52 | <10 | 51 |
| I275609 | | 107 | 10 | 61 |
| I275610 | | 20 | 20 | 19 |
| I275611 | | 94 | <10 | 73 |
| I275612 | | 174 | <10 | 82 |
| I275613 | | 60 | <10 | 59 |
| I275614 | | 218 | <10 | 67 |
| I275615 | | 209 | <10 | 73 |
| I275616 | | 19 | 10 | 9 |
| I275617 | | 95 | <10 | 73 |
| I275618 | | 92 | 10 | 67 |
| I275619 | | 57 | 10 | 45 |

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275620 | | <0.5 | 7.64 | <5 | 1180 | 1.3 | <2 | 1.12 | <0.5 | 15 | 50 | 9 | 3.28 | 20 | 1.56 | 20 |
| I275621 | | <0.5 | 7.34 | <5 | 1320 | 1.2 | <2 | 0.79 | <0.5 | 18 | 149 | 5 | 3.11 | 20 | 2.35 | 30 |
| I275622 | | <0.5 | 7.65 | 21 | 1060 | 1.5 | <2 | 0.98 | <0.5 | 9 | 45 | 15 | 2.21 | 20 | 1.67 | 40 |
| I275623 | | <0.5 | 6.08 | <5 | 80 | <0.5 | 3 | 4.95 | <0.5 | 43 | 18 | 148 | 7.85 | 20 | 0.80 | <10 |
| I275624 | | <0.5 | 8.06 | <5 | 750 | 3.5 | <2 | 1.53 | <0.5 | 6 | 15 | 527 | 1.69 | 20 | 1.66 | 50 |
| I275625 | | <0.5 | 6.19 | <5 | 930 | 1.3 | <2 | 3.32 | <0.5 | 14 | 84 | 18 | 2.19 | 20 | 1.55 | 30 |
| I275626 | | <0.5 | 6.36 | <5 | 490 | 1.2 | <2 | 4.81 | <0.5 | 46 | 102 | 571 | 7.86 | 20 | 2.02 | 40 |
| I275627 | | <0.5 | 7.00 | <5 | 1310 | 1.3 | 2 | 2.35 | <0.5 | 15 | 108 | 20 | 2.89 | 20 | 2.45 | 20 |
| I275628 | | <0.5 | 7.27 | <5 | 1990 | 2.3 | 3 | 2.14 | <0.5 | 14 | 73 | 183 | 2.67 | 20 | 3.79 | 40 |
| I275629 | | <0.5 | 6.98 | <5 | 1350 | 1.3 | <2 | 1.43 | <0.5 | 16 | 140 | 26 | 2.74 | 20 | 2.76 | 20 |
| I275630 | | <0.5 | 7.51 | <5 | 980 | 2.5 | <2 | 0.95 | <0.5 | 8 | 34 | 16 | 1.89 | 20 | 1.43 | 40 |
| N438917 | | <0.5 | 7.45 | 12 | 1780 | 2.5 | <2 | 2.68 | <0.5 | 21 | 265 | 53 | 4.95 | 20 | 3.72 | 40 |
| N438918 | | <0.5 | 6.50 | 5 | 1190 | 2.5 | <2 | 4.51 | <0.5 | 31 | 139 | 104 | 6.01 | 20 | 3.14 | 40 |
| N438919 | | <0.5 | 6.37 | 19 | 1190 | 1.9 | <2 | 2.95 | <0.5 | 32 | 148 | 90 | 6.85 | 20 | 2.06 | 40 |
| N438920 | | <0.5 | 6.85 | 15 | 1870 | 1.7 | 3 | 1.40 | <0.5 | 19 | 260 | 53 | 4.72 | 20 | 3.99 | 40 |
| N438921 | | <0.5 | 7.34 | 13 | 3570 | 7.7 | 2 | 3.54 | <0.5 | 21 | 25 | 155 | 5.16 | 30 | 4.17 | 80 |
| N438922 | | <0.5 | 8.61 | 7 | 1550 | 4.3 | 2 | 1.84 | <0.5 | 20 | 32 | 85 | 4.49 | 20 | 3.63 | 60 |
| N438923 | | <0.5 | 5.30 | 16 | 880 | 2.6 | 5 | 6.53 | <0.5 | 34 | 135 | 95 | 6.16 | 10 | 1.95 | 70 |
| N438924 | | <0.5 | 8.16 | 64 | 820 | 1.3 | 3 | 0.14 | <0.5 | 20 | 144 | 44 | 4.26 | 20 | 3.40 | 20 |
| N438925 | | <0.5 | 7.80 | 17 | 1600 | 3.5 | 3 | 1.99 | <0.5 | 26 | 159 | 88 | 6.17 | 20 | 4.00 | 50 |
| N438926 | | <0.5 | 12.20 | 14 | 2330 | 11.3 | <2 | 0.11 | <0.5 | 11 | 4 | 86 | 3.97 | 40 | 4.86 | 80 |
| N438927 | | <0.5 | 5.79 | 47 | 2510 | 1.6 | <2 | 3.65 | <0.5 | 15 | 176 | 19 | 2.04 | 20 | 2.67 | 40 |
| N438928 | | <0.5 | 8.00 | 37 | 5360 | 5.3 | <2 | 2.68 | <0.5 | 8 | 6 | 60 | 3.27 | 30 | 4.88 | 40 |
| N438929 | | <0.5 | 8.76 | 12 | 6410 | 7.6 | 2 | 1.98 | <0.5 | 8 | 4 | 104 | 3.33 | 30 | 4.02 | 50 |
| N438930 | | <0.5 | 7.31 | 30 | 2930 | 4.4 | 2 | 2.47 | <0.5 | 23 | 38 | 107 | 5.92 | 20 | 3.86 | 110 |
| N438931 | | <0.5 | 6.88 | 17 | 8690 | 7.8 | 3 | 3.15 | <0.5 | 19 | 52 | 146 | 5.91 | 20 | 4.12 | 140 |
| N438932 | | <0.5 | 7.35 | 36 | 5310 | 6.3 | 2 | 2.74 | <0.5 | 20 | 43 | 147 | 5.98 | 20 | 4.30 | 140 |
| N438933 | | <0.5 | 7.86 | <5 | 150 | 3.7 | 8 | 2.44 | <0.5 | 22 | 76 | 42 | 3.37 | 20 | 4.27 | 10 |
| N438934 | | <0.5 | 7.04 | 6 | 1860 | 1.8 | <2 | 2.46 | <0.5 | 26 | 122 | 60 | 4.97 | 20 | 0.48 | 30 |
| N438935 | | <0.5 | 6.99 | 32 | 3670 | 5.8 | 5 | 4.61 | <0.5 | 17 | 55 | 117 | 5.64 | 20 | 4.08 | 110 |
| N438936 | | <0.5 | 6.63 | 16 | 5110 | 4.9 | <2 | 3.92 | <0.5 | 19 | 66 | 114 | 5.69 | 20 | 4.04 | 140 |
| N451843 | | <0.5 | 7.72 | 21 | 1560 | 3.2 | 9 | 2.76 | <0.5 | 31 | 106 | 99 | 6.01 | 20 | 3.95 | 90 |
| N451844 | | <0.5 | 7.35 | 6 | 1760 | 4.0 | 4 | 4.23 | <0.5 | 25 | 98 | 67 | 6.08 | 20 | 4.47 | 90 |
| N451845 | | <0.5 | 7.73 | 10 | 1980 | 2.0 | 4 | 2.35 | <0.5 | 13 | 24 | 34 | 4.00 | 20 | 3.27 | 50 |
| N451846 | | <0.5 | 8.76 | 8 | 3890 | 10.0 | 4 | 1.71 | <0.5 | 19 | 32 | 122 | 5.92 | 30 | 4.73 | 130 |
| N451847 | | <0.5 | 5.88 | 33 | 1440 | 1.8 | 2 | 1.51 | <0.5 | 19 | 97 | 41 | 3.19 | 20 | 2.66 | 40 |
| N451848 | | <0.5 | 6.74 | 11 | 2200 | 2.6 | <2 | 3.82 | <0.5 | 28 | 158 | 82 | 6.25 | 20 | 4.63 | 40 |
| N451849 | | <0.5 | 7.19 | 9 | 5240 | 3.5 | 5 | 4.02 | <0.5 | 16 | 17 | 163 | 4.96 | 20 | 3.75 | 80 |
| N451850 | | <0.5 | 7.55 | 17 | 2040 | 3.6 | 6 | 3.17 | <0.5 | 29 | 106 | 108 | 5.74 | 20 | 4.33 | 70 |
| N454901 | | <0.5 | 7.47 | <5 | 1080 | 1.9 | <2 | 2.49 | <0.5 | 22 | 88 | 134 | 4.86 | 20 | 1.65 | 50 |

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| I275620 | | 1.61 | 467 | <1 | 3.65 | 31 | 920 | 9 | <0.01 | <5 | 10 | 557 | <20 | 0.31 | <10 | <10 |
| I275621 | | 2.16 | 394 | <1 | 3.44 | 74 | 890 | 16 | 0.01 | <5 | 9 | 513 | <20 | 0.16 | <10 | <10 |
| I275622 | | 0.83 | 484 | 1 | 4.83 | 16 | 580 | 17 | 0.41 | <5 | 4 | 511 | <20 | 0.11 | <10 | <10 |
| I275623 | | 4.52 | 1585 | <1 | 1.94 | 54 | 250 | 3 | 0.10 | 11 | 39 | 71 | <20 | 0.27 | <10 | <10 |
| I275624 | | 0.48 | 361 | <1 | 5.68 | 9 | 180 | 22 | 0.09 | <5 | 2 | 703 | 20 | 0.13 | <10 | <10 |
| I275625 | | 1.34 | 722 | 4 | 4.37 | 42 | 990 | 13 | 0.63 | <5 | 5 | 480 | <20 | 0.12 | <10 | <10 |
| I275626 | | 3.31 | 1120 | <1 | 3.11 | 37 | 5230 | 14 | 1.51 | 5 | 22 | 615 | <20 | 0.26 | <10 | <10 |
| I275627 | | 1.61 | 439 | <1 | 3.95 | 47 | 790 | 17 | 0.02 | <5 | 6 | 758 | <20 | 0.31 | <10 | <10 |
| I275628 | | 1.16 | 340 | <1 | 2.96 | 34 | 920 | 17 | 0.45 | <5 | 6 | 453 | <20 | 0.16 | <10 | <10 |
| I275629 | | 1.87 | 501 | <1 | 3.08 | 68 | 790 | 18 | 0.07 | <5 | 9 | 473 | <20 | 0.22 | <10 | <10 |
| I275630 | | 0.75 | 276 | <1 | 4.96 | 18 | 540 | 42 | 0.11 | <5 | 4 | 507 | 20 | 0.12 | <10 | <10 |
| N438917 | | 1.76 | 722 | <1 | 3.21 | 57 | 2220 | 12 | 0.01 | 12 | 23 | 795 | <20 | 0.23 | <10 | <10 |
| N438918 | | 3.80 | 1000 | 1 | 1.84 | 49 | 2590 | 18 | 0.01 | 6 | 19 | 1215 | <20 | 0.49 | <10 | <10 |
| N438919 | | 2.31 | 772 | <1 | 1.85 | 45 | 2530 | 10 | 0.02 | 5 | 18 | 804 | <20 | 0.26 | <10 | <10 |
| N438920 | | 1.68 | 935 | <1 | 2.52 | 68 | 1560 | 12 | 0.03 | 5 | 19 | 300 | <20 | 0.26 | <10 | <10 |
| N438921 | | 1.23 | 1170 | <1 | 0.77 | 16 | 2550 | 29 | 0.05 | 42 | 13 | 1560 | 20 | 0.45 | <10 | <10 |
| N438922 | | 0.81 | 981 | <1 | 3.62 | 11 | 2220 | 17 | 0.02 | 5 | 8 | 798 | 20 | 0.19 | <10 | <10 |
| N438923 | | 3.63 | 1165 | <1 | 2.15 | 32 | 2790 | 10 | <0.01 | 9 | 27 | 1230 | 20 | 0.48 | <10 | <10 |
| N438924 | | 0.25 | 525 | 1 | 1.18 | 75 | 740 | 9 | 0.02 | <5 | 14 | 131 | <20 | 0.13 | <10 | <10 |
| N438925 | | 0.89 | 1280 | 1 | 1.08 | 53 | 1850 | 18 | 0.12 | <5 | 24 | 291 | 20 | 0.17 | <10 | <10 |
| N438926 | | 0.31 | 599 | <1 | 0.79 | 2 | 820 | 31 | 0.01 | <5 | 4 | 109 | 30 | 0.35 | <10 | <10 |
| N438927 | | 1.55 | 553 | <1 | 3.20 | 85 | 2250 | 14 | 0.09 | 5 | 6 | 1440 | <20 | 0.13 | <10 | <10 |
| N438928 | | 0.43 | 1220 | <1 | 3.38 | 1 | 2110 | 16 | 0.09 | 6 | 2 | 1130 | 20 | 0.30 | <10 | <10 |
| N438929 | | 0.54 | 1435 | <1 | 1.90 | 4 | 780 | 42 | 0.13 | <5 | 3 | 944 | 20 | 0.21 | <10 | <10 |
| N438930 | | 0.97 | 1560 | 5 | 0.55 | 21 | 2560 | 33 | 0.39 | <5 | 12 | 644 | 30 | 0.24 | <10 | <10 |
| N438931 | | 1.21 | 1775 | <1 | 0.25 | 24 | 2770 | 32 | 0.21 | <5 | 13 | 1765 | 40 | 0.35 | <10 | <10 |
| N438932 | | 0.97 | 1660 | 2 | 0.06 | 25 | 2720 | 57 | 0.24 | <5 | 13 | 1105 | 40 | 0.32 | 10 | <10 |
| N438933 | | 1.93 | 470 | <1 | 3.31 | 85 | 1070 | 36 | 0.01 | <5 | 6 | 340 | <20 | 0.57 | <10 | <10 |
| N438934 | | 2.38 | 872 | <1 | 3.83 | 51 | 1130 | 12 | 0.04 | 8 | 19 | 364 | <20 | 0.34 | 10 | <10 |
| N438935 | | 1.44 | 1780 | 1 | 0.12 | 18 | 2240 | 32 | 0.35 | <5 | 12 | 1400 | 30 | 0.29 | <10 | <10 |
| N438936 | | 1.43 | 1665 | <1 | 2.75 | 26 | 2900 | 29 | 0.11 | 5 | 12 | 1935 | 40 | 0.31 | <10 | <10 |
| N451843 | | 1.34 | 1045 | <1 | 2.58 | 33 | 2230 | 41 | 0.04 | <5 | 21 | 928 | 20 | 0.24 | <10 | <10 |
| N451844 | | 1.74 | 1135 | <1 | 1.30 | 29 | 2330 | 24 | 0.02 | <5 | 20 | 773 | 20 | 0.24 | <10 | <10 |
| N451845 | | 0.74 | 912 | <1 | 4.30 | 8 | 1870 | 22 | 0.04 | <5 | 6 | 1060 | <20 | 0.17 | <10 | <10 |
| N451846 | | 0.90 | 1500 | <1 | 0.42 | 21 | 2020 | 38 | 0.08 | <5 | 8 | 648 | 40 | 0.32 | 10 | <10 |
| N451847 | | 0.66 | 915 | 1 | 0.96 | 40 | 1010 | 20 | 0.08 | <5 | 10 | 550 | <20 | 0.19 | <10 | <10 |
| N451848 | | 2.96 | 1145 | <1 | 1.59 | 44 | 2620 | 21 | 0.01 | <5 | 19 | 1075 | <20 | 0.39 | <10 | <10 |
| N451849 | | 1.04 | 1505 | <1 | 3.30 | 10 | 2280 | 29 | 0.12 | 5 | 10 | 2100 | 20 | 0.41 | <10 | <10 |
| N451850 | | 1.47 | 1205 | <1 | 2.52 | 29 | 2570 | 40 | 0.02 | 13 | 20 | 964 | 20 | 0.37 | <10 | <10 |
| N454901 | | 2.09 | 1080 | <1 | 3.37 | 44 | 1880 | 6 | 0.14 | 5 | 13 | 238 | <20 | 0.37 | <10 | <10 |

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

ALS Canada Ltd.
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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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| I275620 | | 83 | <10 | 67 |
| I275621 | | 83 | <10 | 75 |
| I275622 | | 53 | <10 | 41 |
| I275623 | | 292 | <10 | 84 |
| I275624 | | 41 | <10 | 13 |
| I275625 | | 47 | <10 | 20 |
| I275626 | | 170 | 10 | 91 |
| I275627 | | 73 | <10 | 78 |
| I275628 | | 68 | <10 | 59 |
| I275629 | | 71 | <10 | 57 |
| I275630 | | 54 | <10 | 20 |
| N438917 | | 165 | 10 | 53 |
| N438918 | | 179 | <10 | 121 |
| N438919 | | 172 | <10 | 169 |
| N438920 | | 163 | 10 | 63 |
| N438921 | | 252 | <10 | 132 |
| N438922 | | 120 | <10 | 108 |
| N438923 | | 206 | <10 | 94 |
| N438924 | | 99 | <10 | 51 |
| N438925 | | 225 | <10 | 121 |
| N438926 | | 218 | <10 | 135 |
| N438927 | | 58 | 10 | 50 |
| N438928 | | 152 | <10 | 127 |
| N438929 | | 159 | <10 | 110 |
| N438930 | | 262 | <10 | 126 |
| N438931 | | 200 | <10 | 115 |
| N438932 | | 270 | 10 | 150 |
| N438933 | | 77 | <10 | 44 |
| N438934 | | 183 | <10 | 140 |
| N438935 | | 240 | <10 | 125 |
| N438936 | | 213 | <10 | 115 |
| N451843 | | 193 | <10 | 182 |
| N451844 | | 211 | 10 | 109 |
| N451845 | | 89 | <10 | 65 |
| N451846 | | 251 | <10 | 152 |
| N451847 | | 95 | <10 | 37 |
| N451848 | | 179 | <10 | 111 |
| N451849 | | 179 | <10 | 114 |
| N451850 | | 188 | <10 | 150 |
| N454901 | | 131 | <10 | 79 |

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

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| N454902 | | <0.5 | 6.77 | 9 | 2230 | 2.4 | <2 | 4.12 | <0.5 | 23 | 60 | 187 | 5.21 | 20 | 4.02 | 80 |
| N454903 | | <0.5 | 4.83 | <5 | 2650 | 2.6 | <2 | 5.31 | <0.5 | 26 | 190 | 70 | 5.46 | 10 | 2.38 | 60 |
| N454904 | | <0.5 | 5.92 | <5 | 3160 | 1.6 | <2 | 5.43 | <0.5 | 17 | 47 | 100 | 4.37 | 20 | 2.13 | 80 |
| N454905 | | <0.5 | 7.17 | 5 | 2260 | 3.4 | <2 | 4.03 | <0.5 | 25 | 70 | 27 | 5.55 | 20 | 4.41 | 80 |
| N454906 | | <0.5 | 7.55 | 24 | 2130 | 4.5 | <2 | 4.23 | <0.5 | 32 | 106 | 82 | 6.31 | 20 | 4.59 | 90 |
| N454907 | | <0.5 | 7.08 | 6 | 2830 | 3.3 | <2 | 4.07 | <0.5 | 28 | 92 | 22 | 6.20 | 30 | 4.26 | 70 |
| N454908 | | <0.5 | 7.46 | 11 | 1730 | 2.7 | <2 | 3.61 | <0.5 | 18 | 16 | 16 | 4.59 | 20 | 3.29 | 80 |
| L179551 | | <0.5 | 7.05 | 12 | 1160 | 3.3 | <2 | 5.22 | <0.5 | 28 | 87 | 102 | 5.67 | 20 | 3.91 | 80 |
| L179552 | | <0.5 | 3.78 | 13 | 5040 | 2.3 | <2 | 6.46 | <0.5 | 28 | 87 | 48 | 4.94 | 10 | 2.17 | 40 |
| L179553 | | <0.5 | 6.07 | 12 | 1660 | 2.1 | <2 | 3.37 | <0.5 | 36 | 199 | 130 | 4.39 | 20 | 4.29 | 40 |
| L179554 | | <0.5 | 7.05 | 8 | 1940 | 3.4 | <2 | 4.12 | <0.5 | 23 | 80 | 100 | 5.01 | 20 | 4.37 | 60 |
| L179555 | | <0.5 | 7.92 | 182 | 1560 | 2.2 | <2 | 2.36 | <0.5 | 20 | 99 | 25 | 4.31 | 20 | 2.40 | 70 |
| L179556 | | <0.5 | 7.46 | 11 | 4350 | 1.9 | 3 | 3.18 | <0.5 | 17 | 27 | 132 | 5.29 | 20 | 4.41 | 90 |
| L179557 | | <0.5 | 9.14 | <5 | 1950 | 4.3 | 3 | 2.05 | <0.5 | 14 | 28 | 74 | 4.66 | 20 | 4.75 | 60 |
| L179558 | | <0.5 | 6.47 | 6 | 1400 | 2.1 | 11 | 5.83 | <0.5 | 31 | 168 | 61 | 6.08 | 20 | 2.95 | 40 |
| L179559 | | <0.5 | 7.22 | 22 | 1960 | 2.4 | 2 | 4.23 | <0.5 | 29 | 161 | 63 | 6.61 | 20 | 4.59 | 40 |
| L179560 | | <0.5 | 6.74 | 8 | 2180 | 1.8 | <2 | 4.18 | <0.5 | 28 | 226 | 39 | 5.05 | 20 | 3.54 | 40 |
| L179561 | | <0.5 | 7.13 | 29 | 940 | 3.2 | 3 | 4.41 | <0.5 | 32 | 251 | 7 | 4.26 | 20 | 3.68 | 50 |
| L179562 | | <0.5 | 7.70 | 112 | 760 | 2.0 | <2 | 0.11 | <0.5 | 24 | 149 | 27 | 3.74 | 20 | 3.47 | 20 |
| L179563 | | <0.5 | 6.70 | <5 | 1770 | 1.8 | <2 | 4.10 | <0.5 | 27 | 227 | 3 | 5.02 | 20 | 2.81 | 40 |
| L179564 | | <0.5 | 5.93 | 17 | 3000 | 1.6 | <2 | 5.41 | <0.5 | 20 | 197 | 248 | 4.38 | 20 | 3.49 | 40 |
| L179565 | | <0.5 | 7.05 | <5 | 1720 | 3.1 | <2 | 1.95 | <0.5 | 11 | 82 | 26 | 2.17 | 20 | 2.78 | 20 |
| L179566 | | <0.5 | 8.17 | <5 | 140 | 4.5 | <2 | 2.68 | <0.5 | 24 | 79 | 35 | 3.60 | 30 | 4.46 | 10 |
| L179567 | | <0.5 | 8.05 | 118 | 900 | 7.1 | 2 | 1.70 | <0.5 | 17 | 24 | 112 | 4.41 | 30 | 4.65 | 80 |
| L179568 | | <0.5 | 7.17 | 34 | 1270 | 3.9 | <2 | 4.15 | <0.5 | 30 | 165 | 129 | 5.75 | 20 | 4.48 | 40 |
| L179569 | | <0.5 | 6.07 | 5 | 560 | 1.2 | 3 | 6.88 | <0.5 | 41 | 246 | 64 | 7.17 | 20 | 1.52 | 20 |
| L179570 | | <0.5 | 7.30 | <5 | 2080 | 4.8 | <2 | 5.01 | <0.5 | 23 | 82 | 80 | 4.59 | 20 | 4.27 | 60 |
| L179571 | | <0.5 | 7.31 | 25 | 1890 | 1.8 | <2 | 1.88 | <0.5 | 7 | 44 | 5 | 2.31 | 20 | 2.34 | 30 |
| L179572 | | 5.8 | 7.15 | 70 | 320 | 1.2 | <2 | 1.87 | 10.7 | 11 | 89 | 126 | 2.94 | 20 | 2.26 | 30 |
| L179573 | | <0.5 | 7.07 | 12 | 3130 | 1.8 | <2 | 2.45 | <0.5 | 11 | 62 | 16 | 2.56 | 20 | 2.54 | 30 |
| L179574 | | <0.5 | 6.87 | 9 | 1610 | 2.2 | <2 | 2.39 | <0.5 | 9 | 84 | 72 | 2.72 | 20 | 3.81 | 30 |
| L179575 | | 1.6 | 7.26 | 35 | 650 | 1.5 | <2 | 1.87 | <0.5 | 12 | 58 | 19 | 2.87 | 20 | 2.54 | 30 |
| L179576 | | <0.5 | 7.17 | 8 | 1910 | 1.7 | <2 | 1.86 | <0.5 | 8 | 42 | 6 | 2.09 | 20 | 2.50 | 30 |
| L179577 | | 0.6 | 7.04 | 40 | 2100 | 1.9 | <2 | 1.97 | <0.5 | 9 | 43 | 8 | 2.03 | 20 | 2.35 | 30 |
| L179578 | | <0.5 | 7.52 | 14 | 1370 | 1.9 | <2 | 2.20 | <0.5 | 10 | 62 | 8 | 2.86 | 20 | 2.01 | 30 |
| L179579 | | <0.5 | 7.76 | 16 | 1740 | 1.9 | 2 | 1.78 | <0.5 | 10 | 40 | 4 | 2.27 | 20 | 2.53 | 30 |
| L179580 | | <0.5 | 7.76 | 20 | 2210 | 1.8 | <2 | 1.33 | <0.5 | 8 | 42 | 22 | 2.13 | 20 | 2.87 | 40 |
| L179581 | | <0.5 | 7.67 | 25 | 2830 | 1.6 | 3 | 0.62 | <0.5 | 12 | 41 | 4 | 2.26 | 20 | 1.68 | 40 |
| L179582 | | <0.5 | 7.89 | 45 | 1360 | 2.1 | 6 | 0.66 | <0.5 | 12 | 50 | 8 | 3.34 | 20 | 2.56 | 40 |
| L179583 | | <0.5 | 6.98 | 41 | 1570 | 1.8 | <2 | 3.61 | <0.5 | 17 | 101 | 15 | 3.67 | 20 | 2.30 | 40 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N454902 | | 1.62 | 1170 | <1 | 2.98 | 19 | 2340 | 68 | 0.08 | 12 | 15 | 2140 | 20 | 0.27 | <10 | <10 |
| N454903 | | 2.14 | 1285 | <1 | 0.52 | 83 | 1790 | 12 | 0.13 | 11 | 18 | 1255 | <20 | 0.18 | <10 | <10 |
| N454904 | | 2.22 | 1140 | <1 | 2.07 | 15 | 1850 | 11 | 0.15 | 9 | 14 | 3250 | 20 | 0.19 | <10 | <10 |
| N454905 | | 1.76 | 1150 | 1 | 0.82 | 20 | 2450 | 19 | 0.03 | 8 | 16 | 1075 | 20 | 0.30 | <10 | <10 |
| N454906 | | 2.46 | 1310 | <1 | 0.81 | 26 | 2510 | 26 | 0.01 | 11 | 22 | 1095 | 40 | 0.46 | <10 | <10 |
| N454907 | | 2.67 | 1350 | <1 | 1.05 | 26 | 2230 | 18 | <0.01 | 9 | 18 | 1005 | 20 | 0.43 | <10 | <10 |
| N454908 | | 1.15 | 1110 | <1 | 3.96 | 12 | 2170 | 26 | 0.04 | 11 | 11 | 1240 | 20 | 0.28 | <10 | <10 |
| L179551 | | 2.44 | 1245 | <1 | 2.44 | 26 | 2600 | 17 | 0.02 | 11 | 20 | 1245 | 20 | 0.36 | <10 | <10 |
| L179552 | | 2.96 | 1170 | <1 | 0.58 | 27 | 1780 | 18 | 0.13 | 10 | 17 | 1595 | <20 | 0.23 | <10 | <10 |
| L179553 | | 1.50 | 850 | <1 | 0.11 | 57 | 930 | 12 | 0.07 | 14 | 19 | 696 | <20 | 0.25 | <10 | <10 |
| L179554 | | 1.87 | 1080 | <1 | 2.07 | 20 | 2340 | 20 | 0.03 | 8 | 12 | 1150 | 20 | 0.36 | <10 | <10 |
| L179555 | | 1.13 | 510 | <1 | 3.85 | 45 | 1810 | 23 | 1.96 | <5 | 10 | 750 | 20 | 0.24 | <10 | <10 |
| L179556 | | 0.97 | 1340 | 1 | 1.33 | 16 | 2380 | 33 | 0.06 | <5 | 12 | 1340 | 20 | 0.33 | <10 | <10 |
| L179557 | | 0.72 | 1100 | 1 | 3.42 | 12 | 2560 | 27 | 0.01 | 7 | 8 | 1000 | 20 | 0.33 | <10 | <10 |
| L179558 | | 3.02 | 1005 | 1 | 1.93 | 52 | 2500 | 20 | 0.01 | <5 | 20 | 1210 | <20 | 0.35 | <10 | <10 |
| L179559 | | 2.95 | 1110 | <1 | 2.17 | 44 | 2850 | 13 | <0.01 | <5 | 20 | 1110 | <20 | 0.43 | <10 | <10 |
| L179560 | | 3.61 | 1015 | 1 | 2.59 | 69 | 1830 | 17 | 0.02 | <5 | 22 | 819 | <20 | 0.26 | <10 | <10 |
| L179561 | | 2.38 | 974 | <1 | 1.61 | 72 | 1910 | 7 | 0.30 | 11 | 24 | 1110 | <20 | 0.22 | 10 | <10 |
| L179562 | | 0.22 | 557 | 1 | 0.67 | 69 | 720 | 6 | 0.05 | <5 | 13 | 112 | <20 | 0.16 | <10 | <10 |
| L179563 | | 3.07 | 1060 | <1 | 3.00 | 67 | 1790 | 23 | 0.01 | <5 | 22 | 1015 | <20 | 0.28 | <10 | <10 |
| L179564 | | 2.59 | 1170 | <1 | 2.56 | 54 | 1610 | 13 | 0.07 | 9 | 19 | 897 | <20 | 0.20 | <10 | <10 |
| L179565 | | 0.97 | 367 | <1 | 3.38 | 19 | 990 | 6 | 0.06 | <5 | 8 | 552 | <20 | 0.18 | <10 | <10 |
| L179566 | | 2.07 | 513 | 1 | 3.63 | 84 | 1210 | 44 | 0.01 | 5 | 6 | 333 | <20 | 0.63 | <10 | <10 |
| L179567 | | 0.83 | 763 | 6 | 0.30 | 12 | 1760 | 26 | 2.85 | 10 | 6 | 909 | 30 | 0.31 | <10 | <10 |
| L179568 | | 2.20 | 901 | 1 | 1.48 | 45 | 2870 | 5 | 0.03 | 6 | 21 | 1080 | <20 | 0.35 | <10 | <10 |
| L179569 | | 4.36 | 1330 | 1 | 1.72 | 58 | 1390 | 6 | 0.22 | <5 | 37 | 422 | <20 | 0.49 | <10 | <10 |
| L179570 | | 2.31 | 1310 | <1 | 0.55 | 27 | 2310 | 23 | 0.02 | <5 | 13 | 1110 | 20 | 0.24 | <10 | <10 |
| L179571 | | 0.75 | 435 | 1 | 4.01 | 17 | 740 | 18 | 1.01 | <5 | 5 | 942 | <20 | 0.10 | <10 | <10 |
| L179572 | | 0.91 | 1170 | 1 | 4.27 | 47 | 750 | 599 | 3.02 | 40 | 7 | 833 | <20 | 0.14 | <10 | <10 |
| L179573 | | 1.14 | 766 | <1 | 3.15 | 26 | 910 | 23 | 0.48 | <5 | 7 | 1480 | <20 | 0.13 | <10 | <10 |
| L179574 | | 1.28 | 651 | <1 | 1.45 | 28 | 1180 | 18 | 0.26 | <5 | 10 | 1110 | <20 | 0.17 | <10 | <10 |
| L179575 | | 0.86 | 725 | 2 | 3.47 | 20 | 870 | 102 | 2.10 | <5 | 8 | 1220 | <20 | 0.11 | <10 | <10 |
| L179576 | | 0.60 | 690 | <1 | 3.92 | 19 | 740 | 22 | 0.84 | 7 | 5 | 713 | <20 | 0.11 | <10 | <10 |
| L179577 | | 0.80 | 581 | <1 | 3.56 | 20 | 760 | 16 | 0.69 | <5 | 5 | 672 | <20 | 0.12 | <10 | <10 |
| L179578 | | 1.01 | 632 | 1 | 4.12 | 29 | 950 | 14 | 0.75 | <5 | 8 | 1010 | <20 | 0.12 | <10 | <10 |
| L179579 | | 0.83 | 474 | <1 | 3.77 | 20 | 770 | 13 | 0.76 | <5 | 5 | 1240 | <20 | 0.11 | <10 | <10 |
| L179580 | | 0.75 | 587 | <1 | 3.46 | 18 | 770 | 12 | 0.61 | <5 | 6 | 689 | <20 | 0.16 | <10 | <10 |
| L179581 | | 0.45 | 356 | <1 | 4.91 | 19 | 750 | 14 | 0.98 | <5 | 5 | 483 | <20 | 0.08 | <10 | <10 |
| L179582 | | 0.92 | 305 | <1 | 4.05 | 24 | 830 | 30 | 1.76 | 5 | 6 | 457 | <20 | 0.09 | <10 | <10 |
| L179583 | | 1.98 | 1650 | <1 | 2.89 | 36 | 1410 | 442 | 1.60 | <5 | 11 | 1120 | <20 | 0.27 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| N454902 | | 184 | <10 | 118 |
| N454903 | | 152 | <10 | 93 |
| N454904 | | 166 | 10 | 83 |
| N454905 | | 240 | 10 | 128 |
| N454906 | | 226 | <10 | 116 |
| N454907 | | 211 | 10 | 137 |
| N454908 | | 136 | <10 | 94 |
| L179551 | | 182 | <10 | 94 |
| L179552 | | 199 | <10 | 88 |
| L179553 | | 132 | 10 | 76 |
| L179554 | | 171 | 10 | 93 |
| L179555 | | 109 | <10 | 51 |
| L179556 | | 184 | <10 | 105 |
| L179557 | | 139 | <10 | 114 |
| L179558 | | 175 | <10 | 87 |
| L179559 | | 186 | <10 | 81 |
| L179560 | | 158 | <10 | 85 |
| L179561 | | 163 | <10 | 71 |
| L179562 | | 92 | <10 | 30 |
| L179563 | | 156 | <10 | 66 |
| L179564 | | 135 | <10 | 30 |
| L179565 | | 93 | <10 | 35 |
| L179566 | | 78 | <10 | 47 |
| L179567 | | 222 | 10 | 44 |
| L179568 | | 192 | <10 | 86 |
| L179569 | | 255 | <10 | 124 |
| L179570 | | 156 | <10 | 92 |
| L179571 | | 49 | <10 | 35 |
| L179572 | | 68 | 10 | 3900 |
| L179573 | | 72 | <10 | 131 |
| L179574 | | 97 | <10 | 89 |
| L179575 | | 62 | <10 | 146 |
| L179576 | | 46 | <10 | 56 |
| L179577 | | 46 | <10 | 46 |
| L179578 | | 74 | <10 | 50 |
| L179579 | | 49 | <10 | 37 |
| L179580 | | 49 | <10 | 35 |
| L179581 | | 41 | <10 | 31 |
| L179582 | | 58 | <10 | 45 |
| L179583 | | 97 | <10 | 198 |

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# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| L179584 | | <0.5 | 7.80 | 21 | 1860 | 1.9 | <2 | 1.64 | <0.5 | 11 | 79 | 6 | 2.63 | 20 | 2.80 | 30 |
| L179585 | | <0.5 | 7.96 | 39 | 1650 | 1.8 | <2 | 0.62 | 0.8 | 9 | 45 | 10 | 1.78 | 20 | 2.59 | 40 |
| L179586 | | <0.5 | 8.08 | 27 | 2550 | 1.8 | <2 | 1.63 | 0.5 | 9 | 48 | 6 | 2.44 | 20 | 2.45 | 30 |
| L179587 | | <0.5 | 6.99 | 5 | 2370 | 1.8 | <2 | 2.87 | <0.5 | 8 | 60 | 7 | 2.64 | 20 | 2.26 | 30 |
| L179588 | | <0.5 | 7.24 | 15 | 2620 | 1.7 | <2 | 0.93 | <0.5 | 9 | 60 | 10 | 1.97 | 20 | 2.34 | 40 |
| L179589 | | 1.1 | 7.58 | 69 | 1190 | 1.8 | 2 | 1.43 | 1.8 | 12 | 75 | 83 | 3.09 | 20 | 2.80 | 40 |
| L179590 | | <0.5 | 6.37 | 24 | 1630 | 1.7 | 2 | 2.44 | <0.5 | 14 | 66 | 12 | 2.64 | 20 | 2.52 | 20 |

***** 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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
| L179584 | | 0.72 | 477 | 1 | 3.07 | 32 | 1000 | 41 | 0.55 | <5 | 9 | 998 | <20 | 0.13 | <10 | <10 |
| L179585 | | 0.34 | 411 | 1 | 3.63 | 23 | 800 | 85 | 0.77 | <5 | 6 | 699 | <20 | 0.12 | <10 | <10 |
| L179586 | | 0.48 | 631 | 1 | 4.17 | 23 | 850 | 191 | 0.84 | <5 | 6 | 1140 | <20 | 0.15 | <10 | <10 |
| L179587 | | 1.09 | 774 | 1 | 3.64 | 25 | 850 | 28 | 0.84 | <5 | 6 | 1350 | <20 | 0.14 | <10 | <10 |
| L179588 | | 0.38 | 324 | 2 | 3.38 | 24 | 790 | 22 | 0.80 | <5 | 7 | 785 | <20 | 0.13 | <10 | <10 |
| L179589 | | 0.62 | 758 | 3 | 2.67 | 24 | 990 | 23 | 2.02 | 9 | 9 | 894 | <20 | 0.14 | <10 | <10 |
| L179590 | | 1.07 | 863 | 3 | 2.66 | 30 | 820 | 14 | 1.41 | <5 | 7 | 1015 | <20 | 0.21 | <10 | <10 |

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

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# CERTIFICATE OF ANALYSIS SD14042827

| 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 |
|---|---|---|---|---|
| L179584 | | 87 | <10 | 201 |
| L179585 | | 50 | <10 | 196 |
| L179586 | | 49 | <10 | 391 |
| L179587 | | 70 | <10 | 111 |
| L179588 | | 59 | <10 | 84 |
| L179589 | | 80 | <10 | 379 |
| L179590 | | 67 | <10 | 103 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042827

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| | | |
|---|---|---|
| Applies to Method: | FND-02 | ME-ICP61 |