ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **OSISKO MINING LTD.**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


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

# CERTIFICATE SD14042940

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 141 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| MIKE FELL | FRANK PLOEGER | ANDREW STOKES |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-02 | Find Sample for Addn Analysis |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP61 | 33 element four acid ICP-AES | ICP-AES |

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

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

**Signature:**
Colin Ramshaw, Vancouver Laboratory Manager

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433831 | | <0.5 | 7.73 | 8 | 6330 | 7.9 | <2 | 2.51 | <0.5 | 7 | 5 | 109 | 5.42 | 20 | 4.86 | 120 |
| N433832 | | <0.5 | 7.04 | 9 | 1660 | 3.0 | <2 | 3.39 | <0.5 | 25 | 148 | 90 | 6.27 | 20 | 3.64 | 40 |
| N433833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N433834 | | <0.5 | 7.17 | 42 | 5730 | 8.8 | 2 | 4.01 | <0.5 | 16 | 31 | 151 | 6.01 | 20 | 4.43 | 140 |
| N433835 | | <0.5 | 6.97 | 11 | 4440 | 8.7 | <2 | 3.10 | <0.5 | 17 | 65 | 121 | 5.02 | 20 | 4.70 | 120 |
| N433836 | | <0.5 | 6.45 | 79 | 780 | 7.2 | <2 | 4.80 | <0.5 | 25 | 18 | 235 | 7.02 | 30 | 4.33 | 130 |
| N433837 | | <0.5 | 6.70 | 27 | 4210 | 8.2 | <2 | 4.65 | <0.5 | 23 | 19 | 210 | 6.73 | 20 | 4.42 | 120 |
| N433838 | | <0.5 | 6.27 | 15 | 3710 | 7.0 | <2 | 5.21 | <0.5 | 32 | 48 | 250 | 7.55 | 20 | 4.20 | 140 |
| N433839 | | <0.5 | 6.65 | 11 | 3050 | 1.7 | 3 | 4.20 | <0.5 | 22 | 26 | 196 | 5.90 | 20 | 4.81 | 110 |
| N433840 | | <0.5 | 7.11 | 51 | 5880 | 9.7 | 2 | 3.93 | <0.5 | 20 | 33 | 170 | 5.81 | 20 | 4.19 | 110 |
| N433841 | | <0.5 | 7.14 | 31 | 4720 | 7.2 | <2 | 4.23 | <0.5 | 19 | 33 | 153 | 5.52 | 20 | 4.27 | 110 |
| N433842 | | <0.5 | 7.12 | 25 | 4360 | 4.4 | <2 | 3.97 | <0.5 | 18 | 59 | 143 | 5.35 | 20 | 4.49 | 120 |
| N433843 | | <0.5 | 6.87 | 14 | 4260 | 9.8 | <2 | 4.50 | <0.5 | 24 | 32 | 182 | 6.51 | 20 | 4.40 | 130 |
| N433844 | | <0.5 | 10.25 | 8 | 2650 | 8.2 | <2 | 0.23 | <0.5 | 5 | 5 | 38 | 2.12 | 30 | 4.12 | 70 |
| N433845 | | <0.5 | 6.84 | 10 | 2460 | 3.6 | <2 | 3.68 | <0.5 | 17 | 65 | 35 | 4.31 | 20 | 3.97 | 70 |
| N433846 | | <0.5 | 6.78 | 7 | 1310 | 3.6 | <2 | 4.75 | <0.5 | 22 | 21 | 226 | 5.94 | 20 | 4.47 | 110 |
| N433847 | | <0.5 | 7.97 | 8 | 4430 | 6.8 | <2 | 3.61 | <0.5 | 22 | 38 | 170 | 6.42 | 20 | 5.45 | 130 |
| N433848 | | <0.5 | 6.72 | 10 | 4040 | 4.6 | <2 | 4.97 | <0.5 | 25 | 33 | 150 | 6.43 | 30 | 4.47 | 120 |
| N433849 | | <0.5 | 5.35 | 16 | >10000 | 18.1 | <2 | 4.47 | 0.5 | 31 | 10 | 60 | 9.80 | 20 | 4.54 | 400 |
| N433850 | | <0.5 | 4.74 | 71 | 570 | 18.3 | 2 | 4.19 | <0.5 | 32 | 3 | 277 | 9.57 | 30 | 4.13 | 360 |
| N433851 | | <0.5 | 7.26 | 19 | 5980 | 8.5 | <2 | 4.39 | <0.5 | 18 | 15 | 212 | 6.51 | 20 | 4.54 | 140 |
| N433852 | | <0.5 | 6.01 | 14 | 3830 | 4.3 | <2 | 4.77 | <0.5 | 31 | 48 | 214 | 8.39 | 20 | 3.93 | 110 |
| N433853 | | <0.5 | 5.74 | 5 | 4000 | 5.2 | <2 | 5.77 | <0.5 | 28 | 33 | 198 | 7.67 | 20 | 4.19 | 110 |
| N433854 | | <0.5 | 6.49 | 16 | 4450 | 2.6 | <2 | 4.40 | <0.5 | 30 | 35 | 198 | 7.47 | 20 | 4.28 | 120 |
| N433855 | | <0.5 | 6.48 | 20 | 5300 | 5.2 | <2 | 4.34 | <0.5 | 31 | 54 | 176 | 7.28 | 20 | 4.43 | 130 |
| N433856 | | <0.5 | 6.94 | 34 | 3790 | 7.4 | <2 | 4.14 | <0.5 | 20 | 20 | 207 | 6.69 | 20 | 4.28 | 120 |
| N433857 | | <0.5 | 7.10 | 92 | 5890 | 3.2 | <2 | 5.79 | <0.5 | 16 | 33 | 179 | 6.33 | 30 | 4.30 | 160 |
| N433858 | | <0.5 | 7.30 | 10 | 4920 | 3.0 | <2 | 3.42 | <0.5 | 12 | 16 | 167 | 5.05 | 20 | 4.06 | 130 |
| N433859 | | <0.5 | 7.14 | 14 | 3140 | 2.5 | <2 | 3.84 | <0.5 | 15 | 67 | 33 | 4.24 | 20 | 5.11 | 70 |
| N433860 | | <0.5 | 7.76 | 9 | 3470 | 2.5 | <2 | 4.37 | <0.5 | 18 | 68 | 162 | 5.26 | 20 | 5.46 | 90 |
| N433861 | | <0.5 | 7.58 | <5 | 1480 | 4.0 | <2 | 1.74 | <0.5 | 7 | 76 | 9 | 2.51 | 20 | 3.87 | 30 |
| N433862 | | <0.5 | 7.64 | 6 | 1370 | 1.8 | <2 | 1.55 | <0.5 | 10 | 69 | 9 | 2.22 | 20 | 3.60 | 30 |
| N433863 | | <0.5 | 6.85 | <5 | 2440 | 1.9 | <2 | 5.21 | <0.5 | 22 | 121 | 98 | 5.08 | 20 | 1.48 | 40 |
| N433864 | | <0.5 | 7.23 | 5 | 250 | 0.7 | <2 | 4.34 | <0.5 | 55 | 197 | 166 | 8.56 | 20 | 1.05 | <10 |
| N433865 | | <0.5 | 6.87 | <5 | 1140 | 2.2 | <2 | 2.30 | <0.5 | 11 | 86 | 10 | 2.42 | 20 | 3.93 | 30 |
| N433866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N433867 | | <0.5 | 7.12 | 10 | 3140 | 3.2 | <2 | 3.65 | 0.6 | 18 | 60 | 56 | 4.40 | 20 | 3.91 | 60 |
| N433868 | | <0.5 | 6.89 | <5 | 2850 | 3.0 | <2 | 3.27 | <0.5 | 17 | 60 | 23 | 4.18 | 20 | 4.03 | 60 |
| N433869 | | <0.5 | 7.14 | <5 | 4170 | 5.0 | <2 | 4.09 | <0.5 | 19 | 43 | 154 | 5.85 | 20 | 4.71 | 120 |
| N433870 | | <0.5 | 6.69 | 26 | 4250 | 8.1 | <2 | 4.81 | <0.5 | 26 | 20 | 212 | 6.96 | 20 | 4.42 | 130 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433831 | | 0.55 | 1580 | <1 | 3.05 | 5 | 1310 | 24 | 0.09 | 9 | 3 | 1000 | 50 | 0.54 | <10 | <10 |
| N433832 | | 2.64 | 867 | <1 | 1.97 | 45 | 2660 | 10 | 0.01 | <5 | 20 | 762 | 20 | 0.47 | <10 | <10 |
| N433833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N433834 | | 1.60 | 1430 | <1 | 0.09 | 28 | 2670 | 40 | 0.28 | 7 | 12 | 2290 | 40 | 0.67 | <10 | <10 |
| N433835 | | 1.72 | 1100 | <1 | 0.91 | 25 | 2730 | 28 | 0.07 | <5 | 12 | 1900 | 40 | 0.37 | <10 | <10 |
| N433836 | | 1.62 | 1725 | 3 | 0.10 | 15 | 3480 | 36 | 1.26 | <5 | 15 | 2610 | 30 | 0.66 | <10 | <10 |
| N433837 | | 1.56 | 1585 | <1 | 0.37 | 17 | 3050 | 29 | 0.10 | <5 | 19 | 2230 | 30 | 0.65 | <10 | <10 |
| N433838 | | 2.17 | 1595 | <1 | 0.16 | 43 | 3980 | 18 | 0.12 | <5 | 26 | 1890 | 30 | 0.66 | <10 | <10 |
| N433839 | | 1.23 | 1555 | <1 | 0.13 | 18 | 2300 | 26 | 0.61 | <5 | 16 | 1740 | 20 | 0.55 | <10 | <10 |
| N433840 | | 1.54 | 1350 | <1 | 0.20 | 23 | 2740 | 46 | 0.62 | <5 | 13 | 3630 | 30 | 0.54 | <10 | <10 |
| N433841 | | 1.49 | 1375 | <1 | 0.15 | 21 | 1900 | 36 | 0.35 | <5 | 9 | 2600 | 30 | 0.57 | <10 | <10 |
| N433842 | | 1.71 | 1570 | <1 | 0.07 | 27 | 2790 | 19 | 0.44 | <5 | 12 | 3290 | 30 | 0.51 | <10 | <10 |
| N433843 | | 1.63 | 1465 | <1 | 0.16 | 22 | 2430 | 52 | 0.22 | <5 | 16 | 2840 | 30 | 0.65 | <10 | <10 |
| N433844 | | 0.28 | 407 | <1 | 0.80 | 2 | 440 | 89 | 0.13 | <5 | 1 | 1185 | 70 | 0.32 | <10 | <10 |
| N433845 | | 1.66 | 1055 | <1 | 3.48 | 23 | 1920 | 30 | 0.22 | <5 | 12 | 826 | 20 | 0.26 | <10 | <10 |
| N433846 | | 1.46 | 1440 | <1 | 0.14 | 14 | 3500 | 23 | 1.32 | <5 | 13 | 2060 | 30 | 0.58 | <10 | <10 |
| N433847 | | 1.46 | 1405 | <1 | 2.54 | 24 | 2870 | 47 | 0.06 | <5 | 14 | 1780 | 40 | 0.58 | 10 | <10 |
| N433848 | | 1.52 | 1655 | <1 | 0.09 | 21 | 2420 | 19 | 0.17 | 5 | 19 | 2080 | 30 | 0.61 | 10 | <10 |
| N433849 | | 1.33 | 2600 | <1 | 1.81 | 12 | 5130 | 75 | 0.16 | <5 | 10 | 3440 | 100 | 0.81 | <10 | <10 |
| N433850 | | 1.26 | 3000 | 3 | 0.94 | 14 | 3210 | 85 | 1.16 | <5 | 7 | 7250 | 110 | 0.79 | <10 | <10 |
| N433851 | | 0.98 | 1660 | <1 | 0.24 | 11 | 3350 | 51 | 0.17 | <5 | 13 | 2910 | 50 | 0.68 | <10 | <10 |
| N433852 | | 1.86 | 1830 | <1 | 0.09 | 41 | 3410 | 49 | 0.09 | <5 | 23 | 1680 | 30 | 0.70 | <10 | <10 |
| N433853 | | 2.18 | 1665 | <1 | 0.47 | 25 | 4030 | 37 | 0.25 | <5 | 21 | 4910 | 30 | 0.58 | <10 | <10 |
| N433854 | | 1.85 | 1885 | <1 | 0.08 | 31 | 4220 | 22 | 0.11 | <5 | 18 | 1620 | 40 | 0.63 | <10 | <10 |
| N433855 | | 1.83 | 1660 | <1 | 0.14 | 40 | 4830 | 54 | 0.28 | <5 | 22 | 3500 | 40 | 0.66 | <10 | <10 |
| N433856 | | 1.34 | 1390 | <1 | 0.11 | 19 | 2840 | 26 | 0.17 | 6 | 16 | 1635 | 20 | 0.67 | <10 | <10 |
| N433857 | | 1.70 | 1725 | 1 | 0.10 | 16 | 3100 | 26 | 0.47 | <5 | 14 | 4060 | 40 | 0.61 | <10 | <10 |
| N433858 | | 0.72 | 1345 | <1 | 0.24 | 9 | 1120 | 22 | 0.48 | <5 | 9 | 3060 | 20 | 0.50 | <10 | <10 |
| N433859 | | 1.63 | 1010 | 4 | 2.79 | 24 | 1720 | 30 | 0.20 | <5 | 13 | 1480 | 20 | 0.25 | 10 | <10 |
| N433860 | | 1.83 | 1205 | <1 | 2.18 | 19 | 2570 | 19 | 0.03 | <5 | 17 | 1490 | 20 | 0.34 | <10 | <10 |
| N433861 | | 0.91 | 573 | <1 | 4.03 | 22 | 770 | 20 | 0.04 | <5 | 6 | 795 | 20 | 0.18 | <10 | <10 |
| N433862 | | 0.68 | 424 | <1 | 4.48 | 20 | 740 | 10 | 0.09 | <5 | 6 | 545 | <20 | 0.14 | <10 | <10 |
| N433863 | | 2.60 | 1570 | <1 | 2.96 | 39 | 1440 | 3 | 0.06 | <5 | 20 | 452 | <20 | 0.32 | <10 | <10 |
| N433864 | | 4.33 | 1760 | <1 | 1.67 | 70 | 490 | <2 | 0.39 | <5 | 40 | 114 | <20 | 0.54 | <10 | <10 |
| N433865 | | 1.14 | 549 | <1 | 3.52 | 23 | 820 | 9 | 0.08 | <5 | 7 | 439 | 20 | 0.12 | <10 | <10 |
| N433866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N433867 | | 1.56 | 1025 | <1 | 3.53 | 21 | 1750 | 52 | 0.22 | <5 | 12 | 1490 | 20 | 0.25 | <10 | <10 |
| N433868 | | 1.42 | 974 | <1 | 3.45 | 23 | 1730 | 21 | 0.33 | <5 | 12 | 1005 | 20 | 0.23 | <10 | <10 |
| N433869 | | 1.69 | 1355 | <1 | 0.99 | 32 | 2390 | 29 | 0.15 | <5 | 14 | 2540 | 30 | 0.54 | <10 | <10 |
| N433870 | | 1.56 | 1540 | <1 | 0.37 | 17 | 3170 | 32 | 0.63 | <5 | 16 | 2430 | 20 | 0.70 | <10 | <10 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|
| N433831 | | 254 | <10 | 99 |
| N433832 | | 177 | <10 | 113 |
| N433833 | | NSS | NSS | NSS |
| N433834 | | 685 | <10 | 160 |
| N433835 | | 294 | <10 | 107 |
| N433836 | | 482 | <10 | 160 |
| N433837 | | 325 | <10 | 143 |
| N433838 | | 268 | <10 | 113 |
| N433839 | | 360 | 10 | 131 |
| N433840 | | 533 | <10 | 152 |
| N433841 | | 452 | <10 | 143 |
| N433842 | | 501 | <10 | 193 |
| N433843 | | 321 | 10 | 212 |
| N433844 | | 252 | 10 | 140 |
| N433845 | | 175 | 10 | 70 |
| N433846 | | 459 | 20 | 134 |
| N433847 | | 346 | <10 | 171 |
| N433848 | | 403 | 10 | 82 |
| N433849 | | 220 | 10 | 290 |
| N433850 | | 714 | 10 | 241 |
| N433851 | | 384 | 10 | 143 |
| N433852 | | 361 | 10 | 174 |
| N433853 | | 242 | 10 | 180 |
| N433854 | | 404 | 10 | 163 |
| N433855 | | 274 | 20 | 135 |
| N433856 | | 823 | <10 | 152 |
| N433857 | | 406 | 20 | 122 |
| N433858 | | 371 | 10 | 50 |
| N433859 | | 151 | 10 | 48 |
| N433860 | | 196 | 10 | 102 |
| N433861 | | 67 | <10 | 28 |
| N433862 | | 57 | 10 | 26 |
| N433863 | | 162 | <10 | 103 |
| N433864 | | 255 | <10 | 84 |
| N433865 | | 58 | <10 | 19 |
| N433866 | | NSS | NSS | NSS |
| N433867 | | 143 | 10 | 281 |
| N433868 | | 125 | 10 | 65 |
| N433869 | | 386 | <10 | 117 |
| N433870 | | 586 | <10 | 167 |

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# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433871 | | <0.5 | 6.50 | 12 | 3930 | 6.1 | <2 | 4.91 | <0.5 | 18 | 15 | 217 | 6.47 | 10 | 4.21 | 120 |
| N433872 | | <0.5 | 6.75 | 12 | 3920 | 3.6 | 2 | 3.91 | <0.5 | 16 | 36 | 168 | 5.13 | 20 | 4.37 | 110 |
| N433873 | | <0.5 | 7.02 | 9 | 3750 | 3.6 | <2 | 3.38 | <0.5 | 15 | 22 | 137 | 5.28 | 20 | 4.35 | 110 |
| N433874 | | <0.5 | 5.90 | 7 | 4150 | 2.6 | 2 | 4.68 | <0.5 | 18 | 28 | 135 | 5.60 | 20 | 4.04 | 100 |
| N433875 | | <0.5 | 7.10 | 26 | 1540 | 1.8 | <2 | 0.19 | <0.5 | 11 | 126 | 13 | 2.84 | 20 | 2.00 | 30 |
| N433876 | | <0.5 | 6.81 | 18 | 3760 | 6.9 | <2 | 4.35 | <0.5 | 18 | 68 | 157 | 5.81 | 10 | 4.53 | 110 |
| N433877 | | <0.5 | 6.83 | 19 | 5210 | 9.2 | <2 | 3.83 | <0.5 | 19 | 61 | 128 | 5.28 | 20 | 4.36 | 110 |
| N433878 | | <0.5 | 7.34 | <5 | 3430 | 2.6 | 3 | 2.80 | <0.5 | 18 | 73 | 25 | 4.51 | 20 | 3.27 | 60 |
| N433879 | | <0.5 | 6.76 | 24 | 4570 | 3.9 | 2 | 4.39 | <0.5 | 15 | 18 | 144 | 5.12 | 20 | 4.38 | 90 |
| N433880 | | <0.5 | 6.63 | 30 | 3630 | 7.5 | <2 | 3.37 | <0.5 | 16 | 30 | 150 | 5.64 | 20 | 3.85 | 100 |
| N433881 | | <0.5 | 6.53 | 15 | 3570 | 1.8 | <2 | 4.46 | <0.5 | 19 | 26 | 186 | 5.81 | 20 | 4.37 | 110 |
| N433882 | | <0.5 | 6.73 | 38 | 3830 | 6.0 | <2 | 3.96 | <0.5 | 15 | 20 | 165 | 5.81 | 20 | 4.03 | 110 |
| N433883 | | <0.5 | 6.52 | 37 | 5140 | 4.4 | 2 | 4.03 | <0.5 | 13 | 22 | 143 | 5.24 | 20 | 3.96 | 100 |
| N433884 | | <0.5 | 6.85 | 17 | 5070 | 5.1 | <2 | 4.03 | <0.5 | 22 | 18 | 243 | 7.08 | 20 | 4.14 | 140 |
| N433885 | | <0.5 | 6.65 | 43 | 5200 | 12.1 | 6 | 3.10 | <0.5 | 19 | 20 | 173 | 6.10 | 20 | 4.17 | 110 |
| N433886 | | <0.5 | 6.92 | 40 | 4430 | 6.7 | 3 | 3.68 | <0.5 | 18 | 20 | 165 | 6.51 | 20 | 4.33 | 120 |
| N433887 | | <0.5 | 6.87 | 12 | 5330 | 5.5 | <2 | 2.92 | <0.5 | 18 | 29 | 147 | 5.74 | 20 | 4.71 | 110 |
| N433888 | | <0.5 | 7.03 | 94 | 3620 | 9.8 | <2 | 3.51 | <0.5 | 23 | 51 | 132 | 6.21 | 30 | 4.40 | 130 |
| N433889 | | <0.5 | 8.07 | 15 | 5610 | 3.1 | <2 | 1.20 | <0.5 | 23 | 99 | 25 | 5.67 | 30 | 0.76 | 170 |
| N433890 | | <0.5 | 7.28 | 54 | 4400 | 3.0 | 3 | 3.03 | <0.5 | 20 | 35 | 105 | 5.56 | 20 | 4.34 | 110 |
| N433891 | | <0.5 | 6.97 | 14 | 2910 | 3.9 | <2 | 4.55 | <0.5 | 16 | 19 | 143 | 6.07 | 20 | 4.10 | 110 |
| N433892 | | <0.5 | 7.04 | 15 | 1380 | 2.7 | <2 | 2.65 | <0.5 | 16 | 79 | 30 | 6.84 | 20 | 4.18 | 90 |
| N433893 | | <0.5 | 7.10 | 20 | 4410 | 2.9 | <2 | 2.97 | <0.5 | 13 | 20 | 211 | 6.27 | 20 | 4.17 | 130 |
| N433894 | | <0.5 | 6.97 | 19 | 3130 | 5.1 | <2 | 3.82 | <0.5 | 9 | 32 | 11 | 4.28 | 20 | 4.12 | 110 |
| L174956 | | <0.5 | 7.88 | 17 | 500 | 0.5 | <2 | 3.87 | <0.5 | 35 | 452 | 446 | 4.95 | 20 | 0.99 | 10 |
| L174957 | | <0.5 | 6.38 | 9 | 640 | 1.4 | <2 | 3.82 | <0.5 | 24 | 115 | 58 | 4.28 | 10 | 1.95 | 10 |
| L174958 | | <0.5 | 10.10 | <5 | 2020 | 4.1 | <2 | 0.62 | <0.5 | 19 | 14 | 9 | 5.19 | 20 | 4.81 | 100 |
| L174959 | | <0.5 | 6.73 | 8 | 1610 | 1.7 | <2 | 2.23 | <0.5 | 8 | 41 | 12 | 2.53 | 20 | 2.08 | 30 |
| L174960 | | <0.5 | 6.57 | 10 | >10000 | 11.2 | <2 | 0.28 | <0.5 | 14 | 3 | 127 | 6.30 | 20 | 1.98 | 180 |
| L174961 | | <0.5 | 7.31 | 21 | 730 | 1.2 | <2 | 2.14 | <0.5 | 20 | 193 | 40 | 4.41 | 20 | 1.34 | 20 |
| L174962 | | <0.5 | 6.93 | 29 | 630 | 0.8 | <2 | 0.44 | <0.5 | 28 | 124 | 18 | 5.31 | 20 | 1.12 | 10 |
| L174963 | | <0.5 | 6.76 | 9 | 980 | 1.3 | <2 | 2.84 | <0.5 | 26 | 226 | 1 | 4.60 | 20 | 2.74 | 30 |
| L174964 | | <0.5 | 6.80 | 6 | 430 | 1.1 | <2 | 4.04 | <0.5 | 24 | 240 | 37 | 4.14 | 20 | 1.60 | 40 |
| L174965 | | <0.5 | 6.12 | 14 | 1350 | 7.6 | <2 | 3.83 | <0.5 | 22 | 229 | 105 | 5.45 | 20 | 3.35 | 200 |
| L174966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174967 | | <0.5 | 5.49 | <5 | 1790 | 1.3 | <2 | 6.05 | <0.5 | 19 | 75 | 116 | 5.14 | 20 | 1.62 | 60 |
| L174968 | | <0.5 | 7.59 | <5 | 1410 | 1.3 | <2 | 0.97 | <0.5 | 9 | 48 | 13 | 2.70 | 20 | 2.68 | 50 |
| L174969 | | <0.5 | 7.63 | 6 | 1460 | 2.0 | 2 | 1.71 | <0.5 | 8 | 48 | 10 | 2.69 | 20 | 2.40 | 40 |
| L174970 | | <0.5 | 7.02 | 11 | 9790 | 10.9 | 3 | 3.59 | <0.5 | 15 | 5 | 181 | 6.44 | 20 | 2.42 | 180 |
| L174971 | | <0.5 | 6.03 | 20 | 1800 | 3.0 | 2 | 4.39 | 0.5 | 38 | 144 | 53 | 8.84 | 20 | 2.35 | 80 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433871 | | 1.54 | 1615 | <1 | 0.99 | 14 | 2960 | 34 | 0.11 | <5 | 17 | 2430 | 30 | 0.65 | <10 | <10 |
| N433872 | | 1.38 | 1405 | <1 | 0.46 | 25 | 2300 | 43 | 0.11 | <5 | 9 | 1625 | 30 | 0.52 | 10 | <10 |
| N433873 | | 1.06 | 1325 | <1 | 0.18 | 13 | 1990 | 29 | 0.19 | <5 | 10 | 1865 | 30 | 0.49 | <10 | <10 |
| N433874 | | 1.49 | 1445 | <1 | 0.05 | 24 | 1880 | 53 | 0.54 | <5 | 13 | 2390 | 30 | 0.48 | <10 | <10 |
| N433875 | | 0.34 | 259 | 2 | 0.66 | 56 | 1030 | 9 | 0.04 | <5 | 9 | 425 | <20 | 0.13 | <10 | <10 |
| N433876 | | 1.77 | 1420 | <1 | 3.03 | 33 | 3130 | 24 | 0.19 | <5 | 14 | 1755 | 20 | 0.54 | <10 | <10 |
| N433877 | | 1.74 | 1270 | <1 | 2.11 | 28 | 2860 | 29 | 0.27 | <5 | 13 | 1890 | 20 | 0.51 | <10 | <10 |
| N433878 | | 1.99 | 908 | <1 | 3.64 | 26 | 1810 | 22 | 0.13 | <5 | 13 | 2710 | 20 | 0.32 | <10 | <10 |
| N433879 | | 1.81 | 1750 | <1 | 0.38 | 15 | 2010 | 41 | 0.42 | <5 | 7 | 1600 | 30 | 0.41 | 10 | <10 |
| N433880 | | 1.47 | 1315 | <1 | 2.12 | 18 | 2570 | 32 | 0.07 | <5 | 11 | 2210 | 20 | 0.51 | <10 | <10 |
| N433881 | | 1.32 | 1615 | 7 | 0.23 | 21 | 2380 | 23 | 0.55 | <5 | 18 | 1640 | 30 | 0.56 | <10 | <10 |
| N433882 | | 1.33 | 1660 | <1 | 0.10 | 16 | 2160 | 51 | 0.47 | <5 | 13 | 2580 | 30 | 0.60 | 10 | <10 |
| N433883 | | 1.38 | 1475 | <1 | 0.66 | 15 | 2710 | 41 | 0.41 | <5 | 12 | 2420 | 20 | 0.54 | 10 | <10 |
| N433884 | | 1.34 | 1905 | <1 | 0.09 | 21 | 2590 | 40 | 0.18 | <5 | 15 | 1240 | 30 | 0.71 | 10 | <10 |
| N433885 | | 0.86 | 1810 | <1 | 0.14 | 17 | 2370 | 42 | 0.36 | <5 | 13 | 1535 | 30 | 0.63 | <10 | <10 |
| N433886 | | 1.53 | 1375 | <1 | 0.09 | 17 | 2880 | 36 | 0.14 | <5 | 15 | 2270 | 30 | 0.63 | <10 | <10 |
| N433887 | | 1.03 | 1465 | <1 | 3.09 | 21 | 2790 | 38 | 0.17 | <5 | 11 | 1590 | 30 | 0.58 | 10 | <10 |
| N433888 | | 2.32 | 1195 | 1 | 1.07 | 30 | 2370 | 19 | 0.73 | <5 | 13 | 1885 | 30 | 0.64 | <10 | <10 |
| N433889 | | 1.79 | 755 | <1 | 5.54 | 30 | 1560 | 54 | 0.38 | <5 | 9 | 761 | 40 | 0.48 | <10 | <10 |
| N433890 | | 1.15 | 1110 | <1 | 0.47 | 20 | 3080 | 30 | 0.81 | <5 | 8 | 1480 | 40 | 0.58 | <10 | <10 |
| N433891 | | 1.46 | 1490 | <1 | 0.42 | 19 | 2620 | 18 | 0.13 | <5 | 10 | 651 | 30 | 0.55 | <10 | <10 |
| N433892 | | 1.45 | 1570 | <1 | 0.78 | 27 | 3180 | 15 | 0.10 | <5 | 17 | 319 | 30 | 0.50 | 10 | <10 |
| N433893 | | 1.34 | 1400 | <1 | 0.13 | 19 | 2060 | 19 | 0.16 | <5 | 12 | 1130 | 30 | 0.61 | <10 | <10 |
| N433894 | | 1.31 | 1175 | <1 | 2.34 | 20 | 2370 | 18 | 0.23 | <5 | 9 | 557 | 30 | 0.48 | <10 | <10 |
| L174956 | | 3.71 | 658 | 5 | 2.67 | 259 | 740 | 4 | 0.08 | <5 | 26 | 338 | <20 | 0.47 | <10 | <10 |
| L174957 | | 1.35 | 1300 | <1 | 2.34 | 81 | 570 | 24 | 0.11 | <5 | 15 | 420 | <20 | 0.24 | <10 | <10 |
| L174958 | | 0.25 | 1405 | <1 | 2.49 | 9 | 2910 | 17 | 0.02 | <5 | 7 | 831 | 30 | 0.33 | <10 | <10 |
| L174959 | | 0.86 | 543 | <1 | 4.01 | 21 | 1010 | 13 | 0.04 | <5 | 6 | 568 | <20 | 0.20 | <10 | <10 |
| L174960 | | 0.13 | 2290 | <1 | 3.40 | 6 | 1730 | 27 | 0.30 | <5 | 7 | 889 | 60 | 0.33 | <10 | <10 |
| L174961 | | 1.88 | 842 | <1 | 3.50 | 99 | 930 | 13 | 0.12 | <5 | 14 | 322 | <20 | 0.36 | <10 | <10 |
| L174962 | | 1.58 | 403 | 1 | 1.88 | 98 | 460 | 7 | 0.16 | <5 | 21 | 133 | <20 | 0.41 | 10 | <10 |
| L174963 | | 3.68 | 712 | 64 | 2.34 | 157 | 960 | 7 | 0.02 | <5 | 15 | 574 | <20 | 0.36 | <10 | <10 |
| L174964 | | 3.36 | 834 | <1 | 2.86 | 154 | 1090 | 8 | 0.04 | <5 | 18 | 418 | <20 | 0.35 | <10 | <10 |
| L174965 | | 2.35 | 1005 | <1 | 1.07 | 82 | 2050 | 43 | 0.07 | <5 | 15 | 537 | 40 | 0.29 | 10 | <10 |
| L174966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174967 | | 2.14 | 1175 | <1 | 2.45 | 34 | 2020 | 11 | 0.04 | <5 | 19 | 1355 | 20 | 0.37 | <10 | <10 |
| L174968 | | 0.96 | 394 | 1 | 4.26 | 24 | 1020 | 12 | 0.03 | <5 | 6 | 552 | <20 | 0.23 | <10 | <10 |
| L174969 | | 0.87 | 516 | <1 | 3.97 | 20 | 1020 | 12 | 0.06 | <5 | 7 | 639 | <20 | 0.22 | <10 | <10 |
| L174970 | | 0.71 | 2010 | <1 | 3.97 | 6 | 1830 | 32 | 0.25 | <5 | 8 | 2160 | 70 | 0.60 | <10 | <10 |
| L174971 | | 4.77 | 1320 | <1 | 1.95 | 47 | 2610 | 12 | 0.02 | <5 | 34 | 1415 | 20 | 0.70 | <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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|
| N433871 | | 362 | <10 | 149 |
| N433872 | | 478 | <10 | 98 |
| N433873 | | 438 | 10 | 155 |
| N433874 | | 325 | 10 | 122 |
| N433875 | | 68 | <10 | 45 |
| N433876 | | 357 | <10 | 115 |
| N433877 | | 299 | <10 | 91 |
| N433878 | | 132 | <10 | 91 |
| N433879 | | 401 | <10 | 126 |
| N433880 | | 425 | <10 | 165 |
| N433881 | | 725 | 20 | 51 |
| N433882 | | 974 | <10 | 135 |
| N433883 | | 569 | 30 | 125 |
| N433884 | | 390 | 10 | 166 |
| N433885 | | 582 | 10 | 125 |
| N433886 | | 582 | <10 | 141 |
| N433887 | | 373 | 10 | 130 |
| N433888 | | 841 | <10 | 169 |
| N433889 | | 328 | <10 | 133 |
| N433890 | | 645 | <10 | 37 |
| N433891 | | 429 | 10 | 47 |
| N433892 | | 563 | 10 | 40 |
| N433893 | | 528 | <10 | 45 |
| N433894 | | 346 | <10 | 17 |
| L174956 | | 166 | <10 | 45 |
| L174957 | | 103 | <10 | 67 |
| L174958 | | 131 | <10 | 143 |
| L174959 | | 65 | <10 | 78 |
| L174960 | | 208 | <10 | 178 |
| L174961 | | 120 | <10 | 92 |
| L174962 | | 194 | <10 | 78 |
| L174963 | | 132 | <10 | 97 |
| L174964 | | 123 | 10 | 69 |
| L174965 | | 206 | <10 | 172 |
| L174966 | | NSS | NSS | NSS |
| L174967 | | 165 | <10 | 86 |
| L174968 | | 61 | <10 | 99 |
| L174969 | | 68 | <10 | 65 |
| L174970 | | 235 | <10 | 206 |
| L174971 | | 323 | 10 | 147 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174972 | | <0.5 | 6.17 | <5 | 140 | <0.5 | <2 | 3.89 | <0.5 | 37 | 113 | 70 | 7.25 | 20 | 0.07 | <10 |
| L174973 | | <0.5 | 7.73 | <5 | 90 | <0.5 | <2 | 5.92 | <0.5 | 36 | 131 | 93 | 6.95 | 20 | 0.19 | <10 |
| L174974 | | <0.5 | 7.22 | 20 | 1840 | 1.6 | 2 | 2.76 | <0.5 | 24 | 186 | 6 | 4.70 | 20 | 2.21 | 50 |
| L174975 | | <0.5 | 7.66 | 6 | 950 | 1.4 | <2 | 0.68 | <0.5 | 13 | 123 | 8 | 4.10 | 20 | 2.99 | 60 |
| L174976 | | <0.5 | 7.31 | 24 | 1560 | 1.6 | <2 | 2.74 | <0.5 | 19 | 213 | 2 | 4.50 | 20 | 2.51 | 50 |
| L174977 | | <0.5 | 6.74 | 7 | 4410 | 1.1 | 2 | 3.62 | <0.5 | 17 | 88 | 5 | 3.93 | 20 | 1.73 | 50 |
| L174978 | | <0.5 | 7.81 | <5 | 110 | <0.5 | <2 | 6.42 | 0.9 | 38 | 49 | 81 | 7.62 | 20 | 0.09 | <10 |
| L174979 | | <0.5 | 8.47 | 13 | 600 | 1.9 | <2 | 2.32 | <0.5 | 17 | 87 | 20 | 3.81 | 20 | 1.82 | 60 |
| L174980 | | <0.5 | 6.49 | 6 | 730 | 2.7 | <2 | 5.82 | <0.5 | 35 | 317 | 70 | 6.24 | 20 | 2.32 | 40 |
| L174981 | | <0.5 | 7.98 | <5 | 160 | <0.5 | <2 | 4.58 | <0.5 | 26 | 141 | 48 | 4.46 | 20 | 0.45 | 10 |
| L174982 | | <0.5 | 7.40 | 6 | 1240 | 1.2 | <2 | 2.32 | <0.5 | 24 | 197 | 2 | 4.62 | 20 | 1.76 | 50 |
| L174983 | | <0.5 | 7.15 | 14 | 420 | 1.5 | <2 | 1.30 | <0.5 | 12 | 216 | 522 | 3.60 | 20 | 2.00 | 20 |
| L174984 | | <0.5 | 6.80 | 9 | 880 | 1.4 | <2 | 1.19 | <0.5 | 14 | 191 | 11 | 4.16 | 20 | 1.37 | 20 |
| L174985 | | <0.5 | 7.58 | 43 | 170 | <0.5 | <2 | 3.69 | 0.5 | 26 | 29 | 44 | 9.91 | 20 | 0.24 | 10 |
| L174986 | | <0.5 | 8.64 | <5 | 30 | <0.5 | <2 | 6.43 | 0.5 | 58 | 246 | 118 | 7.16 | 20 | 0.02 | <10 |
| L174987 | | <0.5 | 7.53 | 11 | 870 | 1.9 | <2 | 3.32 | <0.5 | 18 | 84 | 43 | 4.92 | 20 | 1.79 | 60 |
| L174988 | | <0.5 | 7.57 | 12 | 1810 | 1.8 | <2 | 2.02 | <0.5 | 24 | 105 | 23 | 4.51 | 20 | 1.91 | 40 |
| L174989 | | <0.5 | 7.74 | 18 | 1720 | 1.9 | <2 | 2.25 | <0.5 | 13 | 46 | 35 | 4.15 | 20 | 2.93 | 30 |
| L174990 | | <0.5 | 6.70 | 8 | 1300 | 1.4 | <2 | 3.34 | <0.5 | 29 | 230 | 115 | 5.97 | 20 | 3.94 | 40 |
| L174991 | | <0.5 | 7.07 | 14 | 1120 | 1.6 | <2 | 4.09 | 0.5 | 19 | 83 | 64 | 3.82 | 20 | 2.90 | 50 |
| L174992 | | <0.5 | 6.54 | <5 | 970 | 2.1 | <2 | 4.86 | 0.6 | 27 | 252 | 38 | 5.89 | 20 | 1.64 | 30 |
| N459411 | | <0.5 | 8.28 | 8 | 2890 | 1.9 | <2 | 1.28 | <0.5 | 18 | 47 | 11 | 3.65 | 20 | 4.80 | 60 |
| N459412 | | <0.5 | 7.56 | 20 | 2870 | 1.9 | <2 | 2.61 | 0.5 | 12 | 38 | 17 | 3.21 | 20 | 4.79 | 50 |
| N459413 | | <0.5 | 7.09 | 9 | 910 | 1.4 | <2 | 3.33 | <0.5 | 20 | 195 | 12 | 3.76 | 20 | 1.38 | 30 |
| N459414 | | <0.5 | 1.26 | <5 | 10 | <0.5 | <2 | 2.36 | <0.5 | 88 | 1035 | 14 | 4.69 | <10 | 0.01 | <10 |
| N459415 | | <0.5 | 6.65 | 5 | 1030 | 1.0 | <2 | 2.86 | <0.5 | 16 | 143 | 20 | 3.01 | 20 | 1.06 | 20 |
| N459416 | | <0.5 | 7.62 | 27 | 1340 | 2.7 | <2 | 1.43 | <0.5 | 7 | 63 | 60 | 2.34 | 20 | 3.48 | 50 |
| N459417 | | <0.5 | 7.26 | <5 | 1250 | 1.7 | <2 | 2.53 | <0.5 | 13 | 111 | 70 | 2.60 | 20 | 3.06 | 30 |
| N459418 | | <0.5 | 7.68 | 7 | 1290 | 2.2 | <2 | 0.96 | <0.5 | 10 | 74 | 20 | 1.51 | 20 | 3.70 | 40 |
| N459419 | | <0.5 | 7.27 | <5 | 2880 | 2.4 | <2 | 3.89 | <0.5 | 27 | 80 | 94 | 5.81 | 20 | 3.54 | 60 |
| N459420 | | <0.5 | 7.44 | <5 | 1450 | 1.5 | <2 | 1.61 | <0.5 | 19 | 177 | 12 | 3.45 | 20 | 2.55 | 30 |
| N459421 | | <0.5 | 7.19 | <5 | 1190 | 1.0 | <2 | 1.74 | <0.5 | 15 | 76 | 12 | 3.17 | 20 | 1.96 | 20 |
| N459422 | | <0.5 | 4.72 | <5 | 1290 | 1.4 | <2 | 6.29 | <0.5 | 47 | 653 | 37 | 5.69 | 10 | 2.36 | 30 |
| N459423 | | <0.5 | 6.65 | 8 | 950 | 1.6 | <2 | 2.22 | <0.5 | 17 | 167 | 13 | 3.35 | 20 | 1.72 | 30 |
| N459424 | | <0.5 | 7.78 | 18 | 1420 | 3.0 | <2 | 1.66 | <0.5 | 10 | 54 | 60 | 2.55 | 20 | 3.85 | 50 |
| N459425 | | <0.5 | 7.30 | 7 | 1270 | 1.2 | 2 | 2.05 | <0.5 | 12 | 85 | 1 | 2.67 | 20 | 2.09 | 20 |
| N459426 | | <0.5 | 6.94 | 5 | 930 | 1.2 | <2 | 1.40 | <0.5 | 11 | 91 | 4 | 2.46 | 20 | 1.74 | 20 |
| N459427 | | <0.5 | 6.52 | <5 | 460 | 1.2 | <2 | 3.78 | <0.5 | 13 | 77 | 21 | 2.75 | 20 | 1.11 | 20 |
| N459428 | | <0.5 | 7.04 | <5 | 1130 | 1.2 | <2 | 1.61 | <0.5 | 12 | 96 | 14 | 2.79 | 20 | 2.28 | 20 |
| N459429 | | <0.5 | 7.19 | <5 | 480 | 1.0 | <2 | 1.39 | <0.5 | 14 | 110 | 5 | 2.72 | 20 | 1.61 | 20 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174972 | | 3.88 | 1330 | <1 | 1.11 | 54 | 290 | 2 | 0.02 | <5 | 34 | 99 | <20 | 0.50 | <10 | <10 |
| L174973 | | 3.58 | 1220 | <1 | 2.16 | 72 | 360 | <2 | 0.05 | <5 | 33 | 161 | <20 | 0.56 | <10 | <10 |
| L174974 | | 3.15 | 712 | 1 | 3.36 | 96 | 1910 | 3 | 0.02 | <5 | 13 | 808 | 20 | 0.40 | <10 | <10 |
| L174975 | | 2.21 | 670 | 2 | 3.08 | 69 | 1830 | 8 | 0.02 | <5 | 10 | 265 | <20 | 0.20 | <10 | <10 |
| L174976 | | 3.19 | 701 | 1 | 3.68 | 101 | 1770 | 2 | 0.01 | <5 | 14 | 594 | <20 | 0.40 | <10 | <10 |
| L174977 | | 2.48 | 767 | <1 | 2.89 | 55 | 1600 | 7 | 0.24 | <5 | 10 | 4220 | 20 | 0.25 | <10 | <10 |
| L174978 | | 3.49 | 1320 | <1 | 2.13 | 55 | 420 | <2 | 0.03 | <5 | 37 | 217 | <20 | 0.61 | <10 | <10 |
| L174979 | | 1.65 | 454 | <1 | 4.40 | 61 | 1950 | 4 | 0.39 | <5 | 14 | 694 | <20 | 0.26 | <10 | <10 |
| L174980 | | 4.89 | 1175 | <1 | 1.07 | 130 | 2350 | 10 | 0.02 | <5 | 20 | 598 | <20 | 0.39 | <10 | <10 |
| L174981 | | 3.37 | 961 | <1 | 2.07 | 152 | 570 | 4 | <0.01 | <5 | 18 | 193 | <20 | 0.47 | <10 | <10 |
| L174982 | | 3.39 | 804 | <1 | 3.53 | 103 | 1760 | 16 | 0.03 | <5 | 13 | 591 | <20 | 0.24 | <10 | <10 |
| L174983 | | 1.60 | 548 | 1 | 3.04 | 115 | 830 | 6 | 0.84 | <5 | 19 | 150 | <20 | 0.27 | <10 | <10 |
| L174984 | | 1.95 | 411 | <1 | 2.89 | 98 | 720 | 9 | 0.03 | 5 | 17 | 220 | <20 | 0.31 | <10 | <10 |
| L174985 | | 1.98 | 2880 | <1 | 1.65 | 65 | 630 | 5 | 0.15 | <5 | 25 | 149 | <20 | 0.59 | <10 | <10 |
| L174986 | | 2.37 | 1660 | <1 | 1.95 | 147 | 370 | 3 | 0.17 | <5 | 43 | 95 | <20 | 0.70 | <10 | <10 |
| L174987 | | 2.20 | 683 | <1 | 3.52 | 48 | 1990 | 6 | 0.01 | <5 | 13 | 948 | <20 | 0.27 | <10 | <10 |
| L174988 | | 2.57 | 781 | <1 | 3.24 | 60 | 1700 | 10 | 0.33 | <5 | 11 | 408 | <20 | 0.31 | <10 | <10 |
| L174989 | | 1.41 | 904 | <1 | 2.87 | 13 | 1370 | 6 | 0.19 | <5 | 13 | 708 | <20 | 0.27 | <10 | <10 |
| L174990 | | 3.12 | 1160 | <1 | 1.92 | 86 | 2660 | 7 | 0.01 | <5 | 20 | 460 | <20 | 0.36 | <10 | <10 |
| L174991 | | 1.63 | 798 | 1 | 2.39 | 53 | 1990 | 8 | 0.24 | <5 | 11 | 926 | <20 | 0.30 | <10 | <10 |
| L174992 | | 3.87 | 956 | <1 | 2.29 | 91 | 1900 | 13 | 0.01 | <5 | 21 | 1165 | <20 | 0.45 | <10 | <10 |
| N459411 | | 1.13 | 853 | <1 | 3.21 | 25 | 1470 | 18 | 0.26 | <5 | 8 | 1095 | 20 | 0.28 | <10 | <10 |
| N459412 | | 1.08 | 838 | 1 | 3.14 | 17 | 1170 | 17 | 0.84 | <5 | 8 | 1365 | 20 | 0.22 | <10 | <10 |
| N459413 | | 2.83 | 623 | 1 | 3.31 | 101 | 980 | 15 | 0.15 | 7 | 12 | 682 | <20 | 0.23 | <10 | <10 |
| N459414 | | 21.3 | 1010 | <1 | 0.01 | 2130 | 30 | <2 | 0.09 | <5 | 10 | 101 | <20 | 0.07 | 10 | <10 |
| N459415 | | 2.11 | 642 | <1 | 4.36 | 78 | 890 | 11 | 0.58 | <5 | 9 | 557 | <20 | 0.16 | <10 | <10 |
| N459416 | | 0.96 | 502 | <1 | 3.64 | 28 | 770 | 16 | 0.36 | <5 | 5 | 622 | 20 | 0.14 | <10 | <10 |
| N459417 | | 1.58 | 396 | <1 | 3.42 | 57 | 620 | 15 | 0.30 | <5 | 7 | 511 | <20 | 0.13 | <10 | <10 |
| N459418 | | 0.42 | 407 | <1 | 3.47 | 26 | 780 | 13 | 0.29 | <5 | 4 | 382 | <20 | 0.13 | <10 | <10 |
| N459419 | | 2.99 | 969 | <1 | 2.87 | 38 | 2570 | 16 | 0.32 | <5 | 18 | 1395 | 20 | 0.41 | <10 | <10 |
| N459420 | | 2.47 | 485 | <1 | 2.65 | 88 | 890 | 17 | 0.03 | <5 | 11 | 500 | <20 | 0.24 | <10 | <10 |
| N459421 | | 1.87 | 462 | <1 | 3.74 | 48 | 850 | 6 | 0.01 | <5 | 9 | 448 | <20 | 0.31 | <10 | <10 |
| N459422 | | 7.12 | 1120 | 1 | 1.50 | 210 | 1280 | 10 | 0.03 | <5 | 27 | 625 | <20 | 0.31 | <10 | <10 |
| N459423 | | 2.25 | 636 | <1 | 3.47 | 88 | 800 | 10 | 0.18 | <5 | 10 | 504 | <20 | 0.23 | <10 | <10 |
| N459424 | | 0.85 | 648 | <1 | 3.35 | 25 | 980 | 16 | 0.61 | <5 | 6 | 799 | 20 | 0.16 | <10 | <10 |
| N459425 | | 1.37 | 259 | <1 | 3.38 | 38 | 790 | 6 | 0.13 | <5 | 6 | 347 | <20 | 0.24 | <10 | <10 |
| N459426 | | 1.51 | 263 | <1 | 3.81 | 43 | 760 | 6 | 0.06 | <5 | 7 | 409 | <20 | 0.20 | <10 | <10 |
| N459427 | | 1.35 | 521 | <1 | 4.44 | 38 | 850 | 13 | 0.24 | <5 | 6 | 644 | <20 | 0.23 | <10 | <10 |
| N459428 | | 1.44 | 309 | <1 | 3.51 | 40 | 800 | 16 | 0.02 | <5 | 6 | 515 | <20 | 0.27 | <10 | <10 |
| N459429 | | 1.82 | 292 | <1 | 4.20 | 49 | 830 | 6 | 0.15 | <5 | 5 | 346 | <20 | 0.28 | <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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|
| L174972 | | 274 | <10 | 96 |
| L174973 | | 265 | <10 | 93 |
| L174974 | | 128 | <10 | 93 |
| L174975 | | 121 | <10 | 270 |
| L174976 | | 120 | <10 | 78 |
| L174977 | | 101 | <10 | 124 |
| L174978 | | 308 | <10 | 184 |
| L174979 | | 140 | <10 | 96 |
| L174980 | | 188 | <10 | 111 |
| L174981 | | 171 | <10 | 74 |
| L174982 | | 120 | <10 | 134 |
| L174983 | | 152 | 10 | 113 |
| L174984 | | 137 | 10 | 157 |
| L174985 | | 200 | <10 | 202 |
| L174986 | | 331 | <10 | 96 |
| L174987 | | 124 | <10 | 120 |
| L174988 | | 115 | 10 | 111 |
| L174989 | | 121 | <10 | 100 |
| L174990 | | 183 | <10 | 123 |
| L174991 | | 116 | 10 | 86 |
| L174992 | | 157 | <10 | 107 |
| N459411 | | 101 | <10 | 59 |
| N459412 | | 90 | 10 | 36 |
| N459413 | | 99 | 10 | 88 |
| N459414 | | 52 | <10 | 46 |
| N459415 | | 75 | <10 | 54 |
| N459416 | | 56 | 10 | 44 |
| N459417 | | 57 | <10 | 50 |
| N459418 | | 55 | <10 | 31 |
| N459419 | | 148 | <10 | 103 |
| N459420 | | 88 | <10 | 74 |
| N459421 | | 83 | <10 | 57 |
| N459422 | | 149 | <10 | 86 |
| N459423 | | 82 | <10 | 85 |
| N459424 | | 61 | <10 | 51 |
| N459425 | | 65 | <10 | 63 |
| N459426 | | 66 | <10 | 51 |
| N459427 | | 64 | <10 | 50 |
| N459428 | | 65 | <10 | 65 |
| N459429 | | 75 | <10 | 61 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
| N459430 | | <0.5 | 7.32 | <5 | 1110 | 2.2 | 2 | 1.50 | <0.5 | 11 | 105 | 37 | 2.42 | 20 | 2.62 | 30 |
| I275631 | | <0.5 | 7.15 | <5 | 210 | <0.5 | 3 | 6.08 | <0.5 | 52 | 97 | 75 | 8.55 | 20 | 0.33 | <10 |
| I275632 | | <0.5 | 5.56 | <5 | 260 | <0.5 | <2 | 6.24 | 0.5 | 47 | 348 | 122 | 6.57 | 10 | 1.10 | 40 |
| I275633 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275634 | | <0.5 | 6.74 | <5 | 2470 | 1.8 | <2 | 4.08 | <0.5 | 39 | 144 | 104 | 7.08 | 20 | 3.69 | 50 |
| I275635 | | <0.5 | 8.02 | <5 | 840 | 1.1 | <2 | 1.62 | <0.5 | 20 | 79 | 10 | 4.10 | 20 | 1.60 | 30 |
| I275636 | | <0.5 | 6.74 | <5 | 980 | 1.1 | 2 | 1.04 | <0.5 | 15 | 131 | 6 | 2.78 | 20 | 2.54 | 20 |
| I275637 | | <0.5 | 7.39 | 40 | 1530 | 1.6 | <2 | 1.88 | <0.5 | 16 | 47 | 16 | 3.44 | 20 | 3.36 | 40 |
| I275638 | | <0.5 | 7.14 | <5 | 1790 | 2.4 | <2 | 3.20 | <0.5 | 24 | 83 | 78 | 5.23 | 20 | 3.57 | 70 |
| I275639 | | <0.5 | 6.33 | 20 | 20 | <0.5 | <2 | 11.65 | <0.5 | 41 | 84 | 77 | 6.34 | 20 | 0.05 | <10 |
| I275640 | | <0.5 | 7.27 | <5 | 1060 | 1.4 | <2 | 1.87 | <0.5 | 14 | 104 | 17 | 2.99 | 20 | 2.84 | 30 |
| I275641 | | <0.5 | 6.73 | <5 | 1110 | 1.4 | <2 | 2.52 | <0.5 | 14 | 100 | 16 | 3.00 | 20 | 2.31 | 20 |
| I275642 | | <0.5 | 6.45 | <5 | 790 | 1.3 | <2 | 2.67 | <0.5 | 13 | 90 | 26 | 2.85 | 20 | 1.90 | 20 |
| I275643 | | <0.5 | 5.59 | <5 | 390 | 0.9 | <2 | 2.71 | <0.5 | 11 | 72 | 19 | 2.11 | 10 | 0.88 | 10 |
| I275644 | | <0.5 | 6.87 | <5 | 1380 | 1.3 | <2 | 2.10 | <0.5 | 12 | 88 | 27 | 2.53 | 20 | 1.60 | 20 |
| I275645 | | <0.5 | 7.32 | <5 | 1520 | 1.6 | <2 | 1.15 | <0.5 | 8 | 54 | 25 | 1.88 | 20 | 3.19 | 30 |
| I275646 | | <0.5 | 7.23 | <5 | 710 | 1.4 | <2 | 2.18 | <0.5 | 14 | 89 | 18 | 2.67 | 20 | 1.63 | 20 |
| I275647 | | <0.5 | 7.39 | <5 | 1200 | 1.2 | <2 | 2.13 | <0.5 | 15 | 104 | 24 | 3.08 | 20 | 1.29 | 20 |
| I275648 | | <0.5 | 7.03 | <5 | 1020 | 1.2 | <2 | 1.89 | <0.5 | 14 | 95 | 5 | 2.66 | 20 | 1.85 | 30 |
| I275649 | | <0.5 | 6.13 | <5 | 830 | 1.1 | 2 | 2.37 | <0.5 | 14 | 94 | 68 | 2.58 | 20 | 1.89 | 20 |
| I275650 | | <0.5 | 6.75 | <5 | 1280 | 1.2 | <2 | 1.78 | <0.5 | 14 | 94 | 21 | 2.74 | 20 | 2.53 | 20 |

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
| N459430 | | 1.19 | 551 | <1 | 3.68 | 54 | 490 | 15 | 0.21 | <5 | 6 | 552 | <20 | 0.15 | <10 | <10 |
| I275631 | | 3.90 | 1925 | <1 | 2.22 | 73 | 360 | <2 | 0.11 | <5 | 46 | 262 | <20 | 0.53 | <10 | <10 |
| I275632 | | 4.23 | 1465 | 2 | 3.96 | 119 | 2570 | 15 | 0.98 | <5 | 27 | 331 | <20 | 0.18 | <10 | <10 |
| I275633 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275634 | | 4.02 | 1125 | <1 | 2.37 | 66 | 3400 | 12 | 0.04 | <5 | 21 | 991 | <20 | 0.50 | <10 | <10 |
| I275635 | | 2.10 | 577 | <1 | 4.56 | 48 | 1060 | 13 | 0.02 | <5 | 12 | 489 | <20 | 0.30 | <10 | <10 |
| I275636 | | 1.82 | 345 | <1 | 2.97 | 70 | 700 | 8 | 0.03 | <5 | 8 | 306 | <20 | 0.15 | <10 | <10 |
| I275637 | | 0.95 | 755 | 1 | 4.02 | 20 | 1200 | 12 | 0.81 | <5 | 8 | 871 | <20 | 0.21 | <10 | <10 |
| I275638 | | 2.43 | 900 | <1 | 3.01 | 36 | 2210 | 20 | 0.31 | <5 | 13 | 1190 | 20 | 0.36 | <10 | <10 |
| I275639 | | 2.34 | 1460 | 1 | 0.19 | 58 | 280 | 8 | 0.03 | <5 | 37 | 119 | <20 | 0.43 | <10 | <10 |
| I275640 | | 1.39 | 536 | <1 | 3.23 | 53 | 810 | 10 | 0.04 | <5 | 8 | 396 | <20 | 0.23 | <10 | <10 |
| I275641 | | 1.32 | 480 | <1 | 3.60 | 43 | 880 | 6 | 0.14 | 6 | 6 | 423 | <20 | 0.25 | <10 | <10 |
| I275642 | | 1.59 | 547 | <1 | 3.64 | 49 | 770 | 7 | 0.11 | <5 | 7 | 528 | <20 | 0.20 | <10 | <10 |
| I275643 | | 1.09 | 492 | <1 | 5.03 | 27 | 750 | 3 | 0.18 | <5 | 4 | 620 | <20 | 0.17 | <10 | <10 |
| I275644 | | 1.44 | 405 | <1 | 3.93 | 46 | 650 | 16 | 0.03 | <5 | 7 | 590 | <20 | 0.21 | <10 | <10 |
| I275645 | | 0.75 | 382 | <1 | 3.86 | 24 | 530 | 13 | 0.09 | <5 | 4 | 529 | <20 | 0.15 | <10 | <10 |
| I275646 | | 1.52 | 492 | <1 | 4.35 | 47 | 700 | 8 | 0.10 | <5 | 7 | 482 | <20 | 0.24 | <10 | <10 |
| I275647 | | 1.59 | 398 | <1 | 4.53 | 48 | 890 | 15 | 0.10 | <5 | 7 | 547 | <20 | 0.27 | <10 | <10 |
| I275648 | | 1.43 | 376 | <1 | 3.74 | 47 | 700 | 14 | 0.01 | <5 | 7 | 480 | <20 | 0.23 | <10 | <10 |
| I275649 | | 1.59 | 476 | <1 | 3.51 | 48 | 1040 | 7 | 0.16 | 6 | 7 | 347 | <20 | 0.16 | <10 | <10 |
| I275650 | | 1.55 | 445 | <1 | 3.39 | 50 | 750 | 16 | 0.03 | <5 | 7 | 390 | <20 | 0.23 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

| 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 |
|---|---|---|---|---|
| N459430 | | 55 | 10 | 46 |
| I275631 | | 290 | <10 | 105 |
| I275632 | | 172 | <10 | 50 |
| I275633 | | NSS | NSS | NSS |
| I275634 | | 199 | <10 | 126 |
| I275635 | | 105 | <10 | 84 |
| I275636 | | 64 | <10 | 68 |
| I275637 | | 69 | 10 | 63 |
| I275638 | | 140 | <10 | 99 |
| I275639 | | 236 | <10 | 61 |
| I275640 | | 74 | <10 | 84 |
| I275641 | | 77 | <10 | 68 |
| I275642 | | 66 | <10 | 58 |
| I275643 | | 31 | <10 | 22 |
| I275644 | | 63 | <10 | 58 |
| I275645 | | 42 | <10 | 44 |
| I275646 | | 61 | <10 | 64 |
| I275647 | | 78 | <10 | 69 |
| I275648 | | 66 | <10 | 65 |
| I275649 | | 72 | <10 | 42 |
| I275650 | | 67 | <10 | 74 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042940

## CERTIFICATE COMMENTS

### ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
FND-02

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME-ICP61