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: 22-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042828

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 172 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: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N454910 | | <0.5 | 6.38 | 30 | 1450 | 1.7 | <2 | 0.61 | <0.5 | 19 | 202 | 93 | 4.90 | 20 | 2.33 | 30 |
| N454911 | | <0.5 | 6.55 | 5 | 3320 | 5.6 | <2 | 4.85 | <0.5 | 13 | 46 | 96 | 4.85 | 20 | 2.45 | 120 |
| N454912 | | <0.5 | 7.74 | 7 | 4080 | 2.5 | <2 | 2.47 | <0.5 | 15 | 26 | 84 | 4.06 | 10 | 4.57 | 60 |
| N454913 | | <0.5 | 7.17 | 14 | 2370 | 3.0 | <2 | 3.73 | <0.5 | 23 | 100 | 104 | 5.74 | 20 | 4.20 | 70 |
| N454914 | | 1.8 | 6.74 | 9 | 340 | 1.4 | <2 | 3.39 | <0.5 | 26 | 85 | 114 | 5.22 | 20 | 4.06 | 60 |
| N454915 | | <0.5 | 7.12 | 12 | 2090 | 2.1 | <2 | 4.26 | <0.5 | 22 | 103 | 92 | 5.94 | 30 | 4.12 | 80 |
| N454916 | | <0.5 | 7.04 | 12 | 2050 | 3.4 | <2 | 3.80 | <0.5 | 22 | 67 | 80 | 5.62 | 20 | 4.17 | 70 |
| N454917 | | <0.5 | 7.29 | 5 | 1520 | 2.2 | 2 | 3.80 | <0.5 | 26 | 103 | 60 | 5.84 | 20 | 4.53 | 70 |
| N454918 | | <0.5 | 7.51 | 7 | 2290 | 2.5 | <2 | 4.44 | <0.5 | 24 | 96 | 76 | 5.73 | 20 | 3.16 | 90 |
| N454919 | | <0.5 | 7.13 | 18 | 1510 | 2.6 | <2 | 5.46 | <0.5 | 24 | 92 | 125 | 5.73 | 20 | 2.60 | 90 |
| N454920 | | <0.5 | 6.77 | 5 | 1880 | 1.7 | <2 | 3.64 | <0.5 | 22 | 84 | 91 | 5.12 | 20 | 4.73 | 70 |
| N454921 | | <0.5 | 7.46 | 7 | 1690 | 3.2 | <2 | 5.09 | <0.5 | 26 | 96 | 50 | 5.84 | 20 | 3.26 | 90 |
| N454922 | | <0.5 | 8.09 | 6 | 2310 | 3.4 | 2 | 2.45 | <0.5 | 16 | 25 | 96 | 4.31 | 20 | 4.75 | 60 |
| N454923 | | <0.5 | 9.86 | <5 | 5250 | 7.5 | <2 | 1.30 | <0.5 | 11 | 5 | 80 | 3.46 | 30 | 4.07 | 80 |
| N454924 | | <0.5 | 7.62 | 139 | 1740 | 1.9 | <2 | 0.50 | <0.5 | 19 | 272 | 67 | 3.30 | 20 | 2.98 | 40 |
| N454925 | | <0.5 | 6.35 | 24 | 1840 | 1.7 | <2 | 3.66 | <0.5 | 21 | 232 | 84 | 5.35 | 20 | 1.10 | 50 |
| N454926 | | 0.6 | 7.98 | 17 | 3260 | 10.6 | 2 | 3.23 | <0.5 | 15 | 21 | 136 | 5.41 | 30 | 3.52 | 130 |
| N454927 | | <0.5 | 7.06 | 16 | 5000 | 2.7 | <2 | 4.93 | <0.5 | 15 | 21 | 55 | 4.32 | 10 | 4.79 | 60 |
| N454928 | | <0.5 | 7.15 | 7 | 2910 | 2.0 | <2 | 4.97 | <0.5 | 22 | 87 | 86 | 5.21 | 20 | 4.04 | 70 |
| N454929 | | <0.5 | 7.68 | 22 | 2500 | 3.5 | <2 | 3.60 | <0.5 | 24 | 131 | 83 | 6.32 | 20 | 4.80 | 70 |
| N454930 | | <0.5 | 7.07 | 8 | 2260 | 2.5 | <2 | 4.49 | <0.5 | 21 | 93 | 99 | 5.85 | 20 | 3.78 | 80 |
| N454931 | | <0.5 | 7.23 | 23 | 2350 | 2.1 | 2 | 4.13 | <0.5 | 21 | 96 | 78 | 5.39 | 20 | 4.80 | 70 |
| N454932 | | <0.5 | 9.66 | 5 | 5430 | 5.0 | <2 | 0.97 | <0.5 | 6 | 3 | 58 | 3.00 | 20 | 4.70 | 70 |
| N454933 | | <0.5 | 7.88 | <5 | 150 | 3.7 | 4 | 2.54 | <0.5 | 21 | 79 | 40 | 3.38 | 20 | 4.17 | 10 |
| N454934 | | <0.5 | 6.10 | 80 | 1260 | 1.5 | <2 | 5.67 | <0.5 | 23 | 171 | 49 | 4.55 | 20 | 2.23 | 40 |
| N454935 | | 0.5 | 7.66 | 13 | 6500 | 8.7 | 3 | 2.09 | <0.5 | 17 | 35 | 141 | 5.89 | 20 | 4.17 | 140 |
| N454936 | | <0.5 | 8.53 | 18 | 2230 | 2.6 | 2 | 2.20 | <0.5 | 15 | 24 | 58 | 4.00 | 20 | 4.02 | 70 |
| N454937 | | <0.5 | 6.96 | 6 | 1870 | 2.4 | <2 | 3.41 | <0.5 | 16 | 19 | 4 | 4.50 | 20 | 2.35 | 60 |
| N454938 | | <0.5 | 6.82 | 24 | 2590 | 1.8 | <2 | 4.28 | <0.5 | 20 | 166 | 94 | 5.88 | 20 | 3.92 | 40 |
| N454939 | | <0.5 | 7.60 | 41 | 1760 | 3.5 | <2 | 3.39 | <0.5 | 26 | 224 | 116 | 6.43 | 20 | 4.71 | 30 |
| N454940 | | <0.5 | 7.09 | 5 | 1730 | 3.0 | <2 | 2.96 | <0.5 | 14 | 18 | 4 | 4.39 | 20 | 2.92 | 60 |
| N454941 | | <0.5 | 9.13 | 29 | 4520 | 7.3 | <2 | 0.78 | <0.5 | 8 | 5 | 94 | 3.44 | 30 | 3.96 | 60 |
| N454942 | | <0.5 | 7.51 | 8 | 1200 | 1.6 | 3 | 2.16 | <0.5 | 16 | 99 | 39 | 4.25 | 20 | 2.44 | 60 |
| N454943 | | <0.5 | 6.86 | 65 | 2220 | 3.4 | 2 | 5.39 | <0.5 | 22 | 166 | 85 | 5.84 | 20 | 4.08 | 40 |
| N454944 | | <0.5 | 6.63 | 12 | 1470 | 2.2 | <2 | 5.23 | <0.5 | 23 | 146 | 90 | 4.93 | 20 | 3.08 | 40 |
| N454945 | | <0.5 | 6.82 | 48 | 1630 | 2.8 | 3 | 4.56 | <0.5 | 26 | 174 | 90 | 6.10 | 20 | 3.46 | 40 |
| N454946 | | <0.5 | 7.20 | 78 | 1700 | 2.1 | <2 | 0.56 | <0.5 | 23 | 190 | 67 | 5.15 | 20 | 2.69 | 40 |
| N454947 | | <0.5 | 7.15 | <5 | 1280 | 2.5 | <2 | 4.13 | <0.5 | 16 | 66 | 134 | 5.13 | 20 | 2.44 | 80 |
| N454948 | | <0.5 | 7.91 | 6 | 2270 | 2.9 | <2 | 2.50 | <0.5 | 14 | 25 | 75 | 4.36 | 20 | 4.37 | 50 |
| N454949 | | <0.5 | 8.76 | 30 | 750 | 1.5 | <2 | 0.28 | <0.5 | 24 | 170 | 43 | 3.38 | 20 | 2.50 | 30 |

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

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
| N454910 | | 0.93 | 1070 | 2 | 0.97 | 186 | 1020 | 9 | 0.32 | <5 | 13 | 320 | <20 | 0.14 | <10 | <10 |
| N454911 | | 2.03 | 1465 | <1 | 2.45 | 30 | 2870 | 19 | 0.10 | <5 | 11 | 1775 | 40 | 0.30 | 10 | <10 |
| N454912 | | 0.90 | 986 | <1 | 2.85 | 9 | 1950 | 15 | 0.10 | <5 | 6 | 1940 | 20 | 0.12 | <10 | <10 |
| N454913 | | 1.90 | 1195 | <1 | 2.03 | 26 | 2560 | 22 | 0.02 | <5 | 18 | 976 | 20 | 0.32 | <10 | <10 |
| N454914 | | 1.60 | 899 | 1 | 1.46 | 21 | 2080 | 66 | 3.89 | 5 | 13 | 908 | <20 | 0.16 | <10 | <10 |
| N454915 | | 2.40 | 1210 | 1 | 1.76 | 26 | 1930 | 19 | 0.21 | 5 | 19 | 1460 | 30 | 0.30 | <10 | <10 |
| N454916 | | 1.87 | 1210 | <1 | 2.74 | 18 | 2390 | 15 | 0.01 | 5 | 14 | 1430 | 20 | 0.38 | <10 | <10 |
| N454917 | | 2.10 | 1140 | <1 | 2.49 | 25 | 2540 | 12 | 0.01 | 9 | 18 | 934 | 20 | 0.43 | <10 | <10 |
| N454918 | | 2.23 | 1190 | <1 | 3.73 | 23 | 2250 | 32 | 0.04 | 5 | 19 | 1115 | 20 | 0.43 | <10 | <10 |
| N454919 | | 2.58 | 1200 | <1 | 3.70 | 24 | 2090 | 33 | 0.42 | 5 | 20 | 1940 | 30 | 0.35 | 10 | <10 |
| N454920 | | 1.35 | 1220 | <1 | 2.85 | 21 | 2240 | 23 | 0.02 | 5 | 16 | 862 | 20 | 0.26 | <10 | <10 |
| N454921 | | 2.39 | 1125 | <1 | 3.09 | 25 | 2270 | 16 | 0.06 | <5 | 20 | 1555 | 30 | 0.28 | <10 | <10 |
| N454922 | | 0.90 | 1015 | <1 | 2.78 | 9 | 2100 | 24 | 0.03 | 5 | 7 | 1155 | 20 | 0.19 | <10 | <10 |
| N454923 | | 0.52 | 836 | <1 | 3.78 | 4 | 1120 | 14 | 0.18 | 5 | 3 | 905 | 30 | 0.33 | <10 | <10 |
| N454924 | | 0.69 | 475 | 2 | 1.75 | 80 | 1350 | 76 | 0.37 | <5 | 10 | 401 | <20 | 0.20 | <10 | <10 |
| N454925 | | 1.51 | 1735 | 1 | 3.20 | 72 | 1790 | 14 | 0.04 | 5 | 15 | 1150 | 20 | 0.22 | <10 | <10 |
| N454926 | | 0.99 | 1595 | 1 | 3.53 | 9 | 4080 | 38 | 0.17 | <5 | 5 | 1550 | 40 | 0.41 | <10 | <10 |
| N454927 | | 1.61 | 1250 | <1 | 2.14 | 7 | 2010 | 24 | 0.18 | <5 | 6 | 5300 | 30 | 0.24 | <10 | <10 |
| N454928 | | 1.92 | 1235 | 1 | 3.15 | 23 | 2180 | 114 | 0.06 | 10 | 18 | 1125 | 20 | 0.27 | <10 | <10 |
| N454929 | | 2.18 | 849 | <1 | 1.83 | 27 | 2670 | 18 | 0.02 | 6 | 20 | 1440 | 20 | 0.42 | <10 | <10 |
| N454930 | | 2.10 | 1090 | <1 | 3.07 | 24 | 2320 | 27 | 0.02 | 7 | 19 | 1760 | 20 | 0.36 | <10 | <10 |
| N454931 | | 2.10 | 1150 | <1 | 2.30 | 22 | 2350 | 14 | 0.25 | 10 | 18 | 1535 | 30 | 0.36 | <10 | <10 |
| N454932 | | 0.33 | 1080 | <1 | 3.89 | 1 | 1020 | 6 | 0.12 | <5 | 3 | 916 | 30 | 0.21 | <10 | <10 |
| N454933 | | 1.97 | 485 | 1 | 3.24 | 83 | 1090 | 33 | 0.01 | <5 | 6 | 342 | <20 | 0.58 | <10 | <10 |
| N454934 | | 1.26 | 1075 | 1 | 1.19 | 89 | 1140 | 25 | 0.20 | <5 | 11 | 865 | <20 | 0.22 | <10 | <10 |
| N454935 | | 1.13 | 1515 | 1 | 1.75 | 21 | 2140 | 40 | 0.17 | <5 | 10 | 1475 | 50 | 0.35 | <10 | <10 |
| N454936 | | 0.77 | 866 | <1 | 3.87 | 9 | 2140 | 21 | 1.27 | <5 | 7 | 1065 | 20 | 0.14 | 10 | <10 |
| N454937 | | 0.72 | 1275 | <1 | 4.15 | 11 | 2140 | 18 | 0.02 | 9 | 10 | 863 | 20 | 0.28 | <10 | <10 |
| N454938 | | 2.46 | 1005 | 1 | 2.05 | 42 | 2680 | 8 | 0.01 | 7 | 20 | 1410 | 20 | 0.36 | <10 | <10 |
| N454939 | | 1.98 | 886 | <1 | 1.69 | 53 | 3320 | 8 | 0.02 | 7 | 23 | 794 | <20 | 0.45 | 10 | <10 |
| N454940 | | 0.88 | 916 | <1 | 3.21 | 10 | 2060 | 18 | 0.01 | 11 | 10 | 804 | 20 | 0.29 | <10 | <10 |
| N454941 | | 0.24 | 780 | <1 | 3.03 | 1 | 690 | 19 | 0.03 | 26 | 3 | 512 | 30 | 0.37 | <10 | <10 |
| N454942 | | 1.99 | 684 | 1 | 3.03 | 50 | 1950 | 5 | 0.14 | <5 | 11 | 484 | <20 | 0.35 | <10 | <10 |
| N454943 | | 2.70 | 1130 | 12 | 1.73 | 43 | 2730 | 22 | 0.04 | <5 | 21 | 1360 | <20 | 0.50 | 10 | <10 |
| N454944 | | 1.97 | 856 | <1 | 1.75 | 44 | 2590 | 9 | 0.02 | <5 | 19 | 966 | 20 | 0.36 | <10 | <10 |
| N454945 | | 2.48 | 1000 | <1 | 1.76 | 48 | 2660 | 11 | 0.01 | 5 | 20 | 1550 | 20 | 0.33 | <10 | <10 |
| N454946 | | 0.36 | 1420 | 2 | 1.54 | 96 | 1380 | 31 | 0.20 | 6 | 14 | 361 | <20 | 0.13 | <10 | <10 |
| N454947 | | 1.58 | 1185 | 1 | 3.43 | 18 | 2470 | 19 | 0.03 | 7 | 15 | 1250 | 20 | 0.34 | <10 | <10 |
| N454948 | | 0.86 | 1055 | <1 | 3.27 | 8 | 2220 | 18 | 0.04 | 5 | 6 | 1665 | 20 | 0.21 | <10 | <10 |
| N454949 | | 0.31 | 466 | 1 | 1.63 | 78 | 910 | 7 | 0.04 | 6 | 16 | 368 | <20 | 0.15 | <10 | <10 |

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

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**Finalized Date: 22-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|
| N454910 | | 105 | <10 | 45 |
| N454911 | | 171 | <10 | 109 |
| N454912 | | 95 | <10 | 92 |
| N454913 | | 207 | <10 | 106 |
| N454914 | | 109 | 30 | 73 |
| N454915 | | 272 | 10 | 127 |
| N454916 | | 197 | <10 | 118 |
| N454917 | | 205 | 10 | 113 |
| N454918 | | 197 | <10 | 117 |
| N454919 | | 195 | <10 | 97 |
| N454920 | | 171 | <10 | 99 |
| N454921 | | 201 | <10 | 90 |
| N454922 | | 106 | <10 | 101 |
| N454923 | | 193 | <10 | 100 |
| N454924 | | 84 | <10 | 101 |
| N454925 | | 118 | <10 | 148 |
| N454926 | | 263 | <10 | 109 |
| N454927 | | 95 | <10 | 95 |
| N454928 | | 144 | <10 | 132 |
| N454929 | | 225 | <10 | 126 |
| N454930 | | 196 | <10 | 89 |
| N454931 | | 149 | <10 | 97 |
| N454932 | | 87 | <10 | 60 |
| N454933 | | 76 | <10 | 45 |
| N454934 | | 104 | <10 | 55 |
| N454935 | | 263 | <10 | 176 |
| N454936 | | 97 | <10 | 65 |
| N454937 | | 111 | <10 | 96 |
| N454938 | | 172 | <10 | 105 |
| N454939 | | 230 | <10 | 94 |
| N454940 | | 126 | <10 | 93 |
| N454941 | | 173 | <10 | 116 |
| N454942 | | 122 | <10 | 98 |
| N454943 | | 187 | <10 | 93 |
| N454944 | | 176 | <10 | 74 |
| N454945 | | 183 | <10 | 103 |
| N454946 | | 128 | <10 | 158 |
| N454947 | | 179 | <10 | 94 |
| N454948 | | 117 | <10 | 114 |
| N454949 | | 116 | <10 | 27 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N454950 | | <0.5 | 8.40 | 33 | 860 | 1.5 | <2 | 0.88 | <0.5 | 28 | 181 | 53 | 4.22 | 20 | 2.39 | 30 |
| N454951 | | <0.5 | 8.26 | 52 | 1020 | 2.0 | <2 | 1.43 | <0.5 | 37 | 223 | 51 | 4.72 | 20 | 2.55 | 30 |
| N454952 | | <0.5 | 7.08 | 31 | 710 | 1.1 | <2 | 1.84 | <0.5 | 17 | 95 | 53 | 3.84 | 20 | 1.67 | 40 |
| N454953 | | <0.5 | 6.96 | 10 | 2060 | 1.8 | <2 | 2.93 | <0.5 | 11 | 54 | 18 | 2.87 | 20 | 2.44 | 30 |
| N454954 | | <0.5 | 7.35 | 14 | 4410 | 3.6 | 4 | 3.15 | <0.5 | 16 | 26 | 160 | 5.76 | 20 | 4.40 | 120 |
| N454955 | | <0.5 | 6.73 | 16 | 3750 | 7.9 | 3 | 4.23 | <0.5 | 24 | 27 | 180 | 7.06 | 20 | 3.98 | 120 |
| N454956 | | <0.5 | 7.41 | 40 | 4760 | 10.2 | <2 | 3.43 | <0.5 | 21 | 26 | 191 | 6.94 | 20 | 4.23 | 130 |
| N454957 | | 1.9 | 5.43 | 27 | 3430 | 12.1 | 3 | 4.56 | <0.5 | 30 | 4 | 646 | 9.70 | 20 | 3.82 | 440 |
| N454958 | | <0.5 | 5.92 | <5 | 4060 | 7.8 | <2 | 5.91 | <0.5 | 30 | 164 | 175 | 7.11 | 20 | 4.15 | 120 |
| N454959 | | <0.5 | 6.85 | 7 | 3420 | 4.2 | <2 | 3.81 | <0.5 | 18 | 25 | 291 | 6.12 | 20 | 3.94 | 120 |
| N454960 | | <0.5 | 7.28 | 38 | 3910 | 5.1 | 5 | 2.87 | <0.5 | 17 | 43 | 133 | 5.79 | 20 | 3.90 | 120 |
| N454961 | | <0.5 | 6.10 | 22 | 4690 | 6.5 | 2 | 5.52 | <0.5 | 24 | 42 | 164 | 6.96 | 20 | 3.83 | 120 |
| N454962 | | 0.7 | 7.40 | <5 | 3810 | 3.9 | <2 | 1.71 | <0.5 | 3 | 7 | 24 | 1.97 | 20 | 4.15 | 80 |
| N454963 | | 0.7 | 6.07 | 45 | 640 | 1.3 | 3 | 4.92 | <0.5 | 23 | 29 | 255 | 4.80 | 20 | 4.04 | 180 |
| N454964 | | <0.5 | 6.36 | 18 | 2090 | 0.7 | <2 | 3.27 | <0.5 | 8 | 27 | 24 | 2.65 | 10 | 1.42 | 40 |
| N454965 | | <0.5 | 9.79 | 85 | 5350 | 7.8 | <2 | 1.36 | <0.5 | 6 | 4 | 222 | 2.94 | 30 | 3.75 | 80 |
| N454966 | | <0.5 | 8.33 | <5 | 150 | 4.5 | <2 | 2.73 | <0.5 | 23 | 79 | 36 | 3.59 | 30 | 4.40 | 10 |
| N454967 | | <0.5 | 8.35 | 13 | 2850 | 4.3 | <2 | 2.23 | <0.5 | 16 | 26 | 88 | 4.76 | 20 | 4.15 | 60 |
| N454968 | | <0.5 | 7.43 | 9 | 2220 | 2.7 | 3 | 4.39 | <0.5 | 23 | 105 | 112 | 5.41 | 20 | 3.72 | 60 |
| N454969 | | <0.5 | 6.68 | <5 | 320 | <0.5 | <2 | 6.67 | <0.5 | 53 | 497 | 96 | 7.54 | 20 | 0.81 | 10 |
| N454970 | | <0.5 | 7.32 | 8 | 6460 | 7.4 | <2 | 3.22 | <0.5 | 19 | 6 | 223 | 7.04 | 20 | 4.00 | 140 |
| N454971 | | <0.5 | 7.80 | <5 | 5370 | 19.6 | 2 | 2.28 | <0.5 | 10 | 6 | 111 | 5.03 | 20 | 3.76 | 90 |
| N454972 | | <0.5 | 7.83 | <5 | 620 | 1.1 | 2 | 2.36 | <0.5 | 45 | 52 | 150 | 5.12 | 20 | 2.88 | 10 |
| N454973 | | <0.5 | 6.62 | 5 | 260 | 1.4 | <2 | 2.51 | <0.5 | 47 | 330 | 4 | 7.30 | 10 | 0.76 | <10 |
| N454974 | | <0.5 | 7.58 | <5 | 1680 | 1.9 | <2 | 0.98 | <0.5 | 7 | 61 | 3 | 2.12 | 20 | 4.48 | 40 |
| N454975 | | <0.5 | 6.92 | 5 | 1630 | 6.5 | 3 | 4.04 | <0.5 | 19 | 48 | 181 | 7.51 | 20 | 4.36 | 140 |
| N454976 | | <0.5 | 6.32 | 117 | 770 | 5.0 | 3 | 5.41 | <0.5 | 19 | 12 | 182 | 6.56 | 20 | 4.17 | 160 |
| N454977 | | <0.5 | 6.64 | <5 | 2630 | 4.7 | 4 | 5.15 | <0.5 | 22 | 136 | 177 | 6.23 | 20 | 4.53 | 130 |
| N454978 | | 0.5 | 6.85 | 35 | 5830 | 5.9 | 6 | 4.89 | <0.5 | 23 | 29 | 197 | 6.57 | 20 | 4.13 | 140 |
| N454979 | | <0.5 | 6.39 | 12 | 3290 | 5.8 | 3 | 5.61 | <0.5 | 21 | 28 | 192 | 6.22 | 20 | 4.12 | 140 |
| N454980 | | <0.5 | 6.26 | 6 | 6610 | 4.1 | <2 | 5.59 | <0.5 | 24 | 75 | 167 | 6.43 | 20 | 4.01 | 140 |
| N454981 | | <0.5 | 5.57 | <5 | 2200 | 4.1 | 4 | 6.96 | <0.5 | 28 | 181 | 112 | 6.51 | 20 | 4.03 | 110 |
| N454982 | | 0.5 | 6.69 | 33 | 3260 | 2.3 | <2 | 4.82 | <0.5 | 17 | 20 | 198 | 6.66 | 20 | 4.23 | 210 |
| N454983 | | <0.5 | 6.91 | 34 | 4440 | 31.3 | 4 | 4.36 | <0.5 | 13 | 3 | 158 | 6.72 | 30 | 4.29 | 260 |
| N454984 | | <0.5 | 6.52 | 7 | 4190 | 3.5 | 4 | 5.19 | <0.5 | 23 | 39 | 165 | 6.54 | 20 | 4.20 | 140 |
| N454985 | | <0.5 | 7.10 | 6 | 1970 | 2.2 | <2 | 3.65 | <0.5 | 15 | 105 | 70 | 3.99 | 20 | 2.97 | 30 |
| N454986 | | <0.5 | 5.63 | 27 | 560 | 1.1 | <2 | 3.72 | <0.5 | 17 | 151 | 43 | 3.93 | 10 | 1.37 | 20 |
| N454987 | | <0.5 | 5.60 | 11 | 2810 | 6.0 | 2 | 7.39 | <0.5 | 27 | 218 | 165 | 7.12 | 30 | 4.42 | 90 |
| N454988 | | 0.5 | 6.22 | 21 | 5530 | 3.1 | 2 | 4.48 | <0.5 | 25 | 40 | 199 | 6.42 | 20 | 4.18 | 140 |
| N454989 | | <0.5 | 6.88 | 75 | 1520 | 1.9 | <2 | 0.36 | <0.5 | 17 | 195 | 44 | 4.77 | 20 | 2.46 | 40 |

***** 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: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
| N454950 | | 1.26 | 536 | 1 | 1.96 | 101 | 870 | 5 | 0.12 | <5 | 17 | 323 | <20 | 0.18 | <10 | <10 |
| N454951 | | 1.70 | 582 | 3 | 1.30 | 171 | 950 | 7 | 0.06 | 5 | 18 | 498 | <20 | 0.20 | <10 | <10 |
| N454952 | | 1.15 | 896 | 1 | 2.36 | 71 | 840 | 8 | 0.12 | <5 | 10 | 503 | <20 | 0.16 | <10 | <10 |
| N454953 | | 1.04 | 872 | <1 | 2.00 | 27 | 830 | 16 | 0.06 | <5 | 7 | 723 | <20 | 0.14 | 10 | <10 |
| N454954 | | 1.11 | 1180 | <1 | 0.25 | 15 | 2240 | 34 | 0.25 | <5 | 11 | 1745 | 30 | 0.56 | <10 | <10 |
| N454955 | | 1.69 | 1660 | 1 | 0.13 | 24 | 3570 | 47 | 0.22 | 7 | 17 | 1875 | 30 | 0.60 | <10 | <10 |
| N454956 | | 1.48 | 1620 | <1 | 0.13 | 21 | 2870 | 30 | 0.32 | <5 | 17 | 1450 | 30 | 0.67 | <10 | <10 |
| N454957 | | 1.01 | 2780 | 1 | 0.92 | 11 | 3930 | 236 | 0.27 | <5 | 8 | 3620 | 110 | 0.57 | <10 | <10 |
| N454958 | | 3.44 | 1535 | <1 | 0.24 | 97 | 3280 | 66 | 0.08 | 5 | 22 | 2970 | 40 | 0.63 | <10 | <10 |
| N454959 | | 1.14 | 1485 | <1 | 0.48 | 20 | 3110 | 18 | 0.11 | 7 | 16 | 1510 | 30 | 0.62 | <10 | <10 |
| N454960 | | 1.50 | 1430 | <1 | 0.14 | 30 | 2290 | 46 | 0.34 | <5 | 10 | 906 | 30 | 0.51 | <10 | <10 |
| N454961 | | 1.84 | 1480 | <1 | 0.43 | 32 | 2950 | 57 | 0.11 | <5 | 19 | 3150 | 30 | 0.60 | <10 | <10 |
| N454962 | | 0.60 | 817 | 1 | 0.20 | 5 | 270 | 110 | 0.02 | 5 | 2 | 988 | 60 | 0.25 | <10 | <10 |
| N454963 | | 1.59 | 2090 | <1 | 0.47 | 21 | 3520 | 71 | 0.98 | 16 | 5 | 8760 | 70 | 0.52 | <10 | <10 |
| N454964 | | 0.87 | 673 | 1 | 5.05 | 3 | 1870 | 17 | 0.12 | 5 | 4 | 983 | 20 | 0.07 | <10 | <10 |
| N454965 | | 0.52 | 663 | 2 | 4.44 | 1 | 1260 | 17 | 0.15 | 18 | 3 | 1420 | 40 | 0.29 | <10 | <10 |
| N454966 | | 2.10 | 512 | 1 | 3.58 | 81 | 1240 | 40 | 0.02 | <5 | 6 | 342 | <20 | 0.62 | 10 | <10 |
| N454967 | | 0.84 | 1185 | <1 | 2.47 | 8 | 1980 | 29 | 0.03 | 6 | 7 | 1055 | 20 | 0.25 | <10 | <10 |
| N454968 | | 1.69 | 1175 | <1 | 3.49 | 25 | 2200 | 18 | 0.05 | 9 | 16 | 894 | 20 | 0.28 | <10 | <10 |
| N454969 | | 5.89 | 1395 | 1 | 1.14 | 180 | 290 | 7 | 0.03 | <5 | 35 | 338 | <20 | 0.40 | <10 | <10 |
| N454970 | | 1.12 | 1610 | <1 | 0.24 | 7 | 1980 | 31 | 0.06 | <5 | 13 | 2240 | 40 | 0.68 | <10 | <10 |
| N454971 | | 0.51 | 1195 | <1 | 2.39 | 4 | 1740 | 32 | 0.17 | 7 | 6 | 1380 | 40 | 0.46 | <10 | <10 |
| N454972 | | 1.77 | 642 | 13 | 4.43 | 52 | 360 | 5 | 1.14 | 5 | 10 | 306 | <20 | 0.18 | <10 | <10 |
| N454973 | | 4.94 | 1625 | 1 | 2.05 | 134 | 350 | 2 | 0.07 | <5 | 33 | 208 | <20 | 0.36 | <10 | <10 |
| N454974 | | 0.56 | 455 | <1 | 3.89 | 19 | 650 | 14 | 0.10 | <5 | 5 | 469 | 20 | 0.12 | <10 | <10 |
| N454975 | | 2.16 | 1400 | <1 | 0.12 | 35 | 3670 | 23 | 0.13 | 8 | 16 | 1180 | 30 | 0.68 | 10 | <10 |
| N454976 | | 1.31 | 1770 | 2 | 0.08 | 8 | 3540 | 68 | 1.08 | 6 | 13 | 2030 | 60 | 0.64 | <10 | <10 |
| N454977 | | 2.33 | 1890 | <1 | 0.07 | 77 | 2530 | 15 | 0.10 | 11 | 15 | 897 | 20 | 0.48 | <10 | <10 |
| N454978 | | 1.82 | 1640 | 1 | 0.16 | 23 | 2950 | 52 | 0.62 | 6 | 12 | 2840 | 40 | 0.61 | 10 | <10 |
| N454979 | | 1.55 | 1765 | <1 | 0.06 | 23 | 2770 | 22 | 0.05 | 5 | 14 | 1535 | 40 | 0.55 | <10 | <10 |
| N454980 | | 2.23 | 1540 | <1 | 0.08 | 52 | 3150 | 13 | 0.19 | 9 | 14 | 1915 | 30 | 0.49 | <10 | <10 |
| N454981 | | 2.79 | 1495 | <1 | 0.04 | 90 | 2790 | 11 | 0.13 | <5 | 19 | 1505 | 30 | 0.35 | <10 | <10 |
| N454982 | | 1.13 | 1940 | <1 | 0.10 | 12 | 3460 | 69 | 0.54 | <5 | 7 | 5150 | 60 | 0.59 | <10 | <10 |
| N454983 | | 0.70 | 2240 | <1 | 0.12 | 5 | 2870 | 82 | 0.51 | 7 | 7 | 5250 | 80 | 0.66 | <10 | <10 |
| N454984 | | 1.52 | 1520 | 1 | 0.11 | 33 | 3180 | 39 | 0.13 | 10 | 20 | 1775 | 30 | 0.58 | <10 | <10 |
| N454985 | | 1.62 | 927 | 1 | 1.61 | 27 | 1270 | 12 | 0.03 | <5 | 14 | 872 | <20 | 0.28 | <10 | <10 |
| N454986 | | 1.79 | 1125 | 2 | 1.80 | 98 | 740 | 15 | 0.16 | 7 | 12 | 747 | <20 | 0.17 | <10 | <10 |
| N454987 | | 2.48 | 1665 | <1 | 0.09 | 50 | 3300 | 17 | 0.13 | 8 | 23 | 1405 | 20 | 0.49 | <10 | <10 |
| N454988 | | 1.38 | 1465 | 1 | 0.13 | 40 | 2650 | 22 | 0.24 | 6 | 11 | 1870 | 30 | 0.50 | <10 | <10 |
| N454989 | | 0.66 | 1160 | 1 | 1.72 | 90 | 1110 | 8 | 0.13 | 7 | 13 | 361 | <20 | 0.18 | 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: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|
| N454950 | | 120 | <10 | 41 |
| N454951 | | 130 | <10 | 44 |
| N454952 | | 89 | <10 | 53 |
| N454953 | | 70 | <10 | 94 |
| N454954 | | 411 | <10 | 137 |
| N454955 | | 386 | <10 | 139 |
| N454956 | | 422 | <10 | 167 |
| N454957 | | 174 | 10 | 657 |
| N454958 | | 181 | <10 | 214 |
| N454959 | | 348 | 10 | 101 |
| N454960 | | 564 | <10 | 142 |
| N454961 | | 247 | <10 | 139 |
| N454962 | | 122 | <10 | 51 |
| N454963 | | 194 | 10 | 185 |
| N454964 | | 28 | <10 | 44 |
| N454965 | | 174 | <10 | 130 |
| N454966 | | 79 | <10 | 48 |
| N454967 | | 115 | <10 | 97 |
| N454968 | | 153 | <10 | 96 |
| N454969 | | 226 | <10 | 89 |
| N454970 | | 379 | <10 | 175 |
| N454971 | | 331 | 10 | 176 |
| N454972 | | 68 | <10 | 69 |
| N454973 | | 223 | <10 | 74 |
| N454974 | | 54 | 10 | 37 |
| N454975 | | 319 | <10 | 72 |
| N454976 | | 720 | <10 | 170 |
| N454977 | | 776 | 10 | 98 |
| N454978 | | 382 | <10 | 155 |
| N454979 | | 375 | <10 | 121 |
| N454980 | | 465 | 10 | 132 |
| N454981 | | 365 | 10 | 107 |
| N454982 | | 860 | 10 | 158 |
| N454983 | | 757 | <10 | 259 |
| N454984 | | 435 | 10 | 151 |
| N454985 | | 141 | <10 | 97 |
| N454986 | | 89 | <10 | 78 |
| N454987 | | 817 | 10 | 162 |
| N454988 | | 391 | 10 | 112 |
| N454989 | | 117 | <10 | 28 |

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N454990 | | <0.5 | 6.45 | 32 | 570 | 1.3 | 2 | 2.49 | <0.5 | 24 | 153 | 22 | 4.38 | 10 | 1.36 | 20 |
| N454991 | | <0.5 | 7.13 | 92 | 1340 | 1.8 | <2 | 0.38 | <0.5 | 21 | 263 | 58 | 4.99 | 20 | 2.49 | 40 |
| N451851 | | <0.5 | 7.20 | 17 | 3350 | 2.7 | <2 | 3.65 | <0.5 | 14 | 202 | 30 | 3.32 | 20 | 1.50 | 50 |
| N451852 | | <0.5 | 7.34 | 20 | 1530 | 1.9 | <2 | 2.47 | <0.5 | 22 | 100 | 41 | 4.84 | 20 | 4.29 | 60 |
| N451853 | | <0.5 | 9.46 | 8 | 2090 | 3.6 | <2 | 1.72 | <0.5 | 16 | 28 | 103 | 4.63 | 20 | 4.34 | 80 |
| N451854 | | <0.5 | 9.77 | <5 | 2290 | 6.7 | <2 | 2.03 | <0.5 | 26 | 88 | 36 | 5.89 | 30 | 5.11 | 100 |
| N451855 | | <0.5 | 7.38 | 17 | 2750 | 3.0 | <2 | 4.30 | <0.5 | 30 | 96 | 70 | 5.84 | 20 | 4.51 | 80 |
| N451856 | | <0.5 | 8.98 | 42 | 920 | 1.6 | <2 | 0.16 | <0.5 | 26 | 183 | 49 | 4.97 | 20 | 3.17 | 30 |
| N451857 | | <0.5 | 8.66 | 55 | 810 | 1.6 | <2 | 0.97 | <0.5 | 20 | 129 | 37 | 3.34 | 20 | 2.34 | 20 |
| N451858 | | <0.5 | 9.28 | 56 | 820 | 1.6 | <2 | 0.05 | <0.5 | 24 | 181 | 42 | 5.29 | 20 | 2.55 | 30 |
| N451859 | | <0.5 | 7.27 | 71 | 850 | 1.8 | 4 | 0.84 | <0.5 | 28 | 189 | 46 | 5.34 | 20 | 2.09 | 20 |
| N451860 | | <0.5 | 7.18 | <5 | 1900 | 1.9 | <2 | 4.51 | <0.5 | 17 | 61 | 135 | 5.07 | 20 | 4.34 | 100 |
| N451861 | | <0.5 | 7.60 | 5 | 1280 | 1.7 | <2 | 3.76 | <0.5 | 25 | 195 | 4 | 4.71 | 20 | 1.88 | 50 |
| N451862 | | <0.5 | 8.74 | 40 | 940 | 1.7 | 2 | 0.63 | <0.5 | 25 | 166 | 38 | 4.30 | 20 | 2.49 | 30 |
| N451863 | | 0.6 | 6.97 | 6 | 4730 | 8.2 | 2 | 4.76 | <0.5 | 20 | 21 | 208 | 6.59 | 20 | 4.17 | 220 |
| N451864 | | <0.5 | 8.17 | <5 | 1350 | 3.3 | <2 | 0.34 | <0.5 | 4 | 52 | 3 | 1.91 | 20 | 4.15 | 30 |
| N451865 | | <0.5 | 5.51 | <5 | 310 | 3.4 | 2 | 5.88 | <0.5 | 47 | 449 | 182 | 7.10 | 20 | 1.36 | 10 |
| N451866 | | <0.5 | 8.16 | <5 | 140 | 4.5 | 2 | 2.64 | <0.5 | 21 | 76 | 36 | 3.48 | 30 | 4.33 | 10 |
| N451867 | | 0.6 | 7.27 | 22 | 5530 | 9.8 | <2 | 3.08 | <0.5 | 22 | 22 | 183 | 7.29 | 20 | 4.13 | 140 |
| N451868 | | <0.5 | 6.50 | 11 | 3410 | 12.2 | <2 | 4.65 | <0.5 | 18 | 23 | 201 | 6.11 | 20 | 4.19 | 120 |
| N451869 | | 1.0 | 5.10 | 24 | 660 | 21.9 | 4 | 4.22 | <0.5 | 26 | 44 | 374 | 8.42 | 20 | 3.84 | 330 |
| N451870 | | 0.7 | 5.63 | 12 | 6430 | 8.4 | 4 | 5.55 | <0.5 | 31 | 234 | 92 | 7.11 | 20 | 4.27 | 270 |
| N451871 | | 0.7 | 5.93 | 12 | 8680 | 13.5 | <2 | 4.29 | <0.5 | 22 | 166 | 130 | 6.53 | 20 | 4.00 | 270 |
| N451872 | | 0.6 | 6.25 | 18 | 1240 | 6.1 | 4 | 3.17 | <0.5 | 9 | 22 | 65 | 4.59 | 20 | 4.28 | 130 |
| N451873 | | <0.5 | 11.45 | 16 | 1820 | 9.5 | <2 | 0.31 | <0.5 | 5 | 4 | 79 | 3.85 | 30 | 4.28 | 90 |
| N451874 | | 0.5 | 7.63 | 7 | 1340 | 2.0 | <2 | 1.95 | <0.5 | 24 | 140 | 103 | 5.66 | 20 | 1.43 | 40 |
| N451875 | | <0.5 | 8.02 | 15 | 1660 | 5.0 | 2 | 4.65 | <0.5 | 25 | 45 | 70 | 6.07 | 30 | 4.59 | 70 |
| N451876 | | <0.5 | 5.94 | <5 | 1000 | 2.2 | <2 | 4.86 | <0.5 | 22 | 310 | 23 | 6.24 | 20 | 1.57 | 50 |
| N451877 | | <0.5 | 6.73 | <5 | 1870 | 2.2 | <2 | 3.10 | <0.5 | 17 | 169 | 11 | 3.00 | 20 | 3.75 | 30 |
| N451878 | | <0.5 | 7.34 | 7 | 1290 | 3.8 | 2 | 2.34 | <0.5 | 8 | 97 | 3 | 2.13 | 20 | 4.10 | 30 |
| N451879 | | <0.5 | 7.56 | <5 | 4040 | 1.8 | <2 | 2.44 | <0.5 | 7 | 24 | 74 | 5.70 | 20 | 4.22 | 120 |
| N451880 | | <0.5 | 6.73 | 5 | 3460 | 2.4 | 4 | 4.15 | <0.5 | 19 | 18 | 175 | 6.28 | 20 | 3.96 | 120 |
| N451881 | | <0.5 | 7.09 | 25 | 770 | 6.7 | 3 | 3.42 | <0.5 | 30 | 83 | 185 | 7.18 | 20 | 4.16 | 140 |
| N451882 | | <0.5 | 7.41 | <5 | 1440 | 1.7 | <2 | 2.39 | <0.5 | 11 | 88 | 3 | 2.35 | 20 | 3.76 | 20 |
| N451883 | | <0.5 | 7.48 | 17 | 7600 | 5.6 | <2 | 1.91 | <0.5 | 16 | 15 | 124 | 5.84 | 30 | 3.96 | 100 |
| N451884 | | <0.5 | 6.91 | 8 | 5460 | 3.0 | <2 | 3.49 | <0.5 | 20 | 52 | 195 | 5.69 | 20 | 3.95 | 110 |
| N451885 | | <0.5 | 2.53 | <5 | 1950 | 1.0 | 2 | 2.18 | <0.5 | 8 | 32 | 76 | 2.26 | 10 | 3.11 | 50 |
| N451886 | | <0.5 | 6.34 | 20 | 2320 | 2.2 | <2 | 5.19 | <0.5 | 27 | 67 | 85 | 4.67 | 20 | 3.91 | 120 |
| N451887 | | <0.5 | 6.04 | 76 | 580 | 1.4 | 2 | 2.60 | <0.5 | 27 | 154 | 36 | 5.32 | 10 | 1.66 | 20 |
| N451888 | | <0.5 | 6.71 | 63 | 1350 | 1.8 | <2 | 0.55 | <0.5 | 28 | 263 | 62 | 5.90 | 10 | 2.34 | 40 |

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

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
| N454990 | | 1.57 | 1055 | 1 | 2.11 | 106 | 820 | 6 | 0.35 | 5 | 11 | 509 | <20 | 0.16 | <10 | <10 |
| N454991 | | 0.40 | 1190 | 1 | 2.00 | 90 | 1110 | 19 | 0.46 | 8 | 13 | 372 | <20 | 0.15 | <10 | <10 |
| N451851 | | 2.33 | 833 | <1 | 4.48 | 134 | 2640 | 11 | 0.09 | <5 | 8 | 1500 | 20 | 0.09 | <10 | <10 |
| N451852 | | 1.08 | 909 | <1 | 2.92 | 21 | 2700 | 16 | 0.02 | <5 | 16 | 771 | 20 | 0.27 | <10 | <10 |
| N451853 | | 0.80 | 1060 | <1 | 3.30 | 9 | 2500 | 24 | 0.05 | 6 | 8 | 1410 | 30 | 0.23 | <10 | <10 |
| N451854 | | 1.22 | 776 | <1 | 1.82 | 24 | 2990 | 15 | 0.06 | 5 | 19 | 625 | 30 | 0.40 | <10 | <10 |
| N451855 | | 1.92 | 1340 | <1 | 1.62 | 20 | 2370 | 9 | 0.07 | 13 | 20 | 1395 | 20 | 0.39 | <10 | <10 |
| N451856 | | 0.47 | 628 | 1 | 0.73 | 114 | 890 | 5 | 0.02 | <5 | 17 | 313 | <20 | 0.14 | <10 | <10 |
| N451857 | | 0.87 | 461 | <1 | 2.06 | 76 | 570 | 7 | 0.04 | 6 | 13 | 308 | <20 | 0.17 | <10 | <10 |
| N451858 | | 0.21 | 865 | 1 | 1.09 | 66 | 930 | 8 | 0.01 | <5 | 17 | 394 | <20 | 0.13 | <10 | <10 |
| N451859 | | 0.62 | 1455 | 2 | 1.89 | 81 | 870 | 6 | 0.58 | 5 | 13 | 308 | <20 | 0.13 | <10 | <10 |
| N451860 | | 1.83 | 1170 | <1 | 2.61 | 18 | 2260 | 14 | 0.02 | 5 | 15 | 1475 | 30 | 0.24 | <10 | <10 |
| N451861 | | 1.82 | 710 | <1 | 3.13 | 109 | 1740 | 12 | <0.01 | 5 | 14 | 890 | 20 | 0.29 | 10 | <10 |
| N451862 | | 0.61 | 690 | 2 | 1.52 | 69 | 920 | 8 | 0.05 | <5 | 17 | 405 | <20 | 0.15 | <10 | <10 |
| N451863 | | 1.46 | 1605 | 1 | 0.28 | 17 | 3050 | 46 | 0.72 | <5 | 15 | 2360 | 30 | 0.62 | <10 | <10 |
| N451864 | | 0.16 | 179 | <1 | 4.23 | 11 | 470 | 17 | 0.02 | 6 | 3 | 606 | 20 | 0.12 | <10 | <10 |
| N451865 | | 3.68 | 1385 | 7 | 3.28 | 95 | 200 | 7 | 0.31 | <5 | 31 | 529 | <20 | 0.21 | <10 | <10 |
| N451866 | | 2.00 | 480 | 2 | 3.57 | 79 | 1180 | 39 | 0.01 | <5 | 6 | 327 | <20 | 0.59 | <10 | <10 |
| N451867 | | 1.37 | 1325 | 5 | 0.44 | 15 | 3530 | 50 | 0.79 | <5 | 19 | 1815 | 30 | 0.68 | <10 | <10 |
| N451868 | | 1.66 | 1440 | <1 | 1.29 | 18 | 2610 | 32 | 0.37 | <5 | 15 | 2530 | 30 | 0.57 | <10 | <10 |
| N451869 | | 1.42 | 3140 | 1 | 0.10 | 33 | 3620 | 127 | 1.01 | <5 | 8 | 4310 | 90 | 0.64 | <10 | <10 |
| N451870 | | 3.01 | 2040 | 1 | 0.08 | 120 | 3690 | 35 | 0.34 | 10 | 12 | 2330 | 70 | 0.47 | 10 | <10 |
| N451871 | | 2.00 | 1755 | <1 | 0.26 | 80 | 2320 | 77 | 0.31 | 7 | 10 | 4060 | 60 | 0.48 | <10 | <10 |
| N451872 | | 0.84 | 1350 | 1 | 0.25 | 8 | 1150 | 53 | 0.92 | 5 | 10 | 4530 | 40 | 0.34 | <10 | <10 |
| N451873 | | 0.25 | 614 | <1 | 3.92 | 3 | 700 | 6 | 0.04 | <5 | 4 | 197 | 40 | 0.29 | 10 | <10 |
| N451874 | | 2.74 | 1010 | <1 | 3.01 | 38 | 1420 | 5 | 0.03 | <5 | 17 | 260 | <20 | 0.31 | <10 | <10 |
| N451875 | | 1.89 | 1370 | <1 | 2.33 | 19 | 4400 | 18 | 0.02 | 11 | 15 | 1440 | 20 | 0.27 | <10 | <10 |
| N451876 | | 4.78 | 1120 | <1 | 2.62 | 115 | 2720 | 11 | 0.10 | <5 | 23 | 600 | <20 | 0.23 | <10 | <10 |
| N451877 | | 1.69 | 844 | <1 | 2.94 | 79 | 1640 | 15 | 0.05 | <5 | 8 | 694 | <20 | 0.16 | <10 | 10 |
| N451878 | | 0.75 | 572 | <1 | 3.93 | 23 | 950 | 21 | 0.03 | 9 | 8 | 634 | 20 | 0.18 | <10 | <10 |
| N451879 | | 0.96 | 1075 | <1 | 0.11 | 17 | 1560 | 19 | 0.04 | <5 | 9 | 923 | 30 | 0.50 | <10 | <10 |
| N451880 | | 1.10 | 1530 | <1 | 0.10 | 14 | 2490 | 31 | 0.05 | 5 | 14 | 1145 | 30 | 0.45 | <10 | <10 |
| N451881 | | 1.84 | 1275 | 1 | 0.10 | 38 | 2640 | 30 | 1.49 | <5 | 23 | 1330 | 20 | 0.63 | <10 | <10 |
| N451882 | | 1.05 | 606 | <1 | 4.25 | 35 | 1070 | 11 | 0.05 | <5 | 8 | 554 | <20 | 0.17 | <10 | <10 |
| N451883 | | 0.55 | 1435 | <1 | 0.12 | 11 | 1970 | 28 | 0.21 | <5 | 6 | 1215 | 40 | 0.46 | 10 | <10 |
| N451884 | | 1.12 | 1560 | <1 | 0.14 | 24 | 2380 | 30 | 0.15 | 8 | 11 | 1435 | 30 | 0.40 | <10 | <10 |
| N451885 | | 0.64 | 568 | 1 | 0.03 | 16 | 1330 | 17 | 0.07 | <5 | 5 | 523 | <20 | 0.19 | <10 | <10 |
| N451886 | | 1.80 | 1275 | 1 | 0.09 | 44 | 2590 | 17 | 0.34 | 12 | 15 | 1035 | 30 | 0.44 | <10 | <10 |
| N451887 | | 1.61 | 1405 | 1 | 1.90 | 133 | 850 | 10 | 0.09 | 5 | 12 | 629 | <20 | 0.12 | <10 | <10 |
| N451888 | | 0.87 | 1825 | 1 | 1.91 | 122 | 1210 | 21 | 0.50 | <5 | 14 | 501 | <20 | 0.19 | <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: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|
| N454990 | | 94 | <10 | 44 |
| N454991 | | 116 | <10 | 43 |
| N451851 | | 72 | <10 | 151 |
| N451852 | | 132 | 10 | 75 |
| N451853 | | 138 | <10 | 133 |
| N451854 | | 284 | <10 | 117 |
| N451855 | | 219 | 10 | 90 |
| N451856 | | 113 | <10 | 54 |
| N451857 | | 115 | <10 | 62 |
| N451858 | | 121 | <10 | 141 |
| N451859 | | 90 | <10 | 43 |
| N451860 | | 173 | 10 | 98 |
| N451861 | | 124 | <10 | 105 |
| N451862 | | 121 | <10 | 32 |
| N451863 | | 432 | <10 | 176 |
| N451864 | | 52 | <10 | 22 |
| N451865 | | 241 | 10 | 80 |
| N451866 | | 77 | <10 | 47 |
| N451867 | | 436 | <10 | 148 |
| N451868 | | 439 | <10 | 137 |
| N451869 | | 406 | <10 | 216 |
| N451870 | | 191 | 10 | 180 |
| N451871 | | 133 | <10 | 247 |
| N451872 | | 408 | 10 | 160 |
| N451873 | | 209 | <10 | 47 |
| N451874 | | 172 | <10 | 117 |
| N451875 | | 220 | <10 | 139 |
| N451876 | | 174 | <10 | 61 |
| N451877 | | 91 | <10 | 52 |
| N451878 | | 73 | 10 | 29 |
| N451879 | | 252 | <10 | 43 |
| N451880 | | 405 | <10 | 116 |
| N451881 | | 457 | 10 | 108 |
| N451882 | | 92 | 10 | 31 |
| N451883 | | 370 | 10 | 80 |
| N451884 | | 313 | <10 | 96 |
| N451885 | | 157 | <10 | 43 |
| N451886 | | 246 | <10 | 57 |
| N451887 | | 102 | <10 | 94 |
| N451888 | | 123 | <10 | 117 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451889 | | <0.5 | 7.40 | 47 | 1370 | 1.9 | <2 | 1.13 | <0.5 | 28 | 178 | 59 | 5.06 | 20 | 2.51 | 40 |
| N451890 | | <0.5 | 7.52 | 159 | 1390 | 1.9 | <2 | 0.42 | <0.5 | 22 | 268 | 58 | 5.07 | 20 | 2.47 | 40 |
| N459851 | | <0.5 | 7.22 | 16 | 1630 | 2.2 | 2 | 5.04 | <0.5 | 21 | 88 | 96 | 5.49 | 20 | 4.74 | 80 |
| N459852 | | 1.2 | 7.20 | 23 | 1990 | 3.0 | <2 | 3.11 | <0.5 | 28 | 99 | 110 | 6.04 | 20 | 3.51 | 60 |
| N459853 | | <0.5 | 6.91 | 15 | 3510 | 2.8 | <2 | 3.51 | <0.5 | 26 | 114 | 52 | 6.22 | 20 | 3.71 | 70 |
| N459854 | | <0.5 | 7.42 | 14 | 2010 | 2.7 | 3 | 3.10 | <0.5 | 25 | 109 | 108 | 5.85 | 20 | 4.42 | 70 |
| N459855 | | <0.5 | 10.75 | 6 | 2380 | 8.7 | <2 | 0.83 | <0.5 | 17 | 31 | 69 | 4.98 | 30 | 3.82 | 60 |
| N459856 | | <0.5 | 8.28 | 8 | 2610 | 4.4 | <2 | 2.33 | <0.5 | 17 | 28 | 108 | 4.71 | 20 | 4.26 | 60 |
| N459857 | | <0.5 | 6.75 | 31 | 1710 | 2.3 | 2 | 4.23 | <0.5 | 30 | 170 | 91 | 6.15 | 20 | 3.59 | 40 |
| N459858 | | <0.5 | 7.56 | 109 | 1640 | 2.1 | <2 | 0.59 | <0.5 | 23 | 120 | 54 | 4.64 | 20 | 3.00 | 40 |
| N459859 | | <0.5 | 7.26 | <5 | 1450 | 2.0 | <2 | 3.21 | <0.5 | 19 | 84 | 77 | 4.66 | 20 | 2.37 | 30 |
| N459860 | | <0.5 | 9.75 | 8 | 2690 | 3.8 | <2 | 0.77 | <0.5 | 18 | 29 | 59 | 4.66 | 20 | 3.96 | 80 |
| N459861 | | 0.6 | 6.97 | 14 | 790 | 1.1 | <2 | 4.61 | <0.5 | 34 | 63 | 34 | 6.52 | 20 | 4.14 | 60 |
| N459862 | | <0.5 | 7.70 | 12 | 2260 | 3.1 | <2 | 3.13 | <0.5 | 23 | 106 | 113 | 6.23 | 20 | 4.97 | 80 |
| N459863 | | <0.5 | 10.80 | <5 | 2400 | 6.0 | 2 | 0.15 | <0.5 | 9 | 14 | 79 | 4.36 | 20 | 4.66 | 90 |
| N459864 | | <0.5 | 7.25 | 11 | 2340 | 3.2 | 3 | 3.73 | <0.5 | 25 | 98 | 80 | 5.67 | 20 | 4.40 | 80 |
| N459865 | | <0.5 | 6.64 | 12 | 2090 | 2.1 | 3 | 4.91 | <0.5 | 28 | 91 | 78 | 5.55 | 20 | 3.99 | 80 |
| N459866 | | <0.5 | 10.15 | 5 | 2240 | 6.1 | <2 | 1.32 | <0.5 | 19 | 31 | 72 | 5.18 | 30 | 4.20 | 80 |
| N459867 | | <0.5 | 7.37 | 26 | 1920 | 2.9 | 2 | 2.48 | <0.5 | 19 | 187 | 119 | 5.68 | 20 | 3.55 | 50 |
| N459868 | | <0.5 | 7.16 | 5 | 1600 | 2.7 | 3 | 3.30 | <0.5 | 19 | 93 | 54 | 4.54 | 20 | 2.48 | 40 |
| N459869 | | <0.5 | 6.47 | 63 | 1370 | 1.8 | <2 | 0.21 | <0.5 | 17 | 123 | 40 | 3.21 | 10 | 2.23 | 40 |
| N459870 | | <0.5 | 7.10 | 78 | 1610 | 2.0 | <2 | 0.46 | <0.5 | 20 | 293 | 47 | 4.87 | 20 | 2.59 | 40 |
| N459871 | | <0.5 | 6.86 | 13 | 3190 | 6.7 | <2 | 3.99 | <0.5 | 14 | 52 | 114 | 5.06 | 20 | 3.54 | 130 |
| N459872 | | <0.5 | 7.39 | 9 | 1930 | 2.4 | 2 | 5.24 | 0.5 | 28 | 108 | 39 | 5.95 | 20 | 1.75 | 80 |
| N459873 | | <0.5 | 7.50 | 10 | 3010 | 3.5 | <2 | 3.35 | <0.5 | 18 | 24 | 94 | 4.59 | 20 | 5.29 | 50 |
| N459874 | | <0.5 | 7.32 | 15 | 2410 | 2.6 | 2 | 4.42 | <0.5 | 24 | 65 | 153 | 5.30 | 20 | 6.10 | 80 |
| N459875 | | <0.5 | 6.81 | 9 | 1850 | 2.4 | 3 | 3.91 | <0.5 | 29 | 64 | 135 | 4.96 | 20 | 5.50 | 70 |
| N459876 | | 0.5 | 3.69 | 17 | 880 | 1.9 | <2 | 3.26 | <0.5 | 23 | 52 | 47 | 3.47 | 10 | 3.50 | 40 |
| N459877 | | <0.5 | 6.96 | 24 | 3330 | 2.5 | 4 | 3.63 | <0.5 | 26 | 94 | 90 | 5.78 | 20 | 5.61 | 80 |
| N459878 | | <0.5 | 7.23 | 11 | 2650 | 1.9 | 2 | 5.42 | <0.5 | 31 | 90 | 45 | 6.27 | 20 | 4.31 | 80 |
| N459879 | | <0.5 | 6.76 | 20 | 1540 | 1.9 | 4 | 4.14 | <0.5 | 25 | 142 | 74 | 5.80 | 20 | 2.37 | 40 |
| N459880 | | <0.5 | 7.27 | 17 | 1000 | 1.5 | 2 | 4.47 | <0.5 | 34 | 176 | 78 | 6.17 | 20 | 1.66 | 40 |
| N459881 | | <0.5 | 7.15 | 346 | 1680 | 1.4 | 2 | 4.19 | 0.6 | 23 | 116 | 46 | 4.27 | 20 | 2.65 | 30 |
| N459882 | | <0.5 | 8.18 | 25 | 2120 | 2.8 | 3 | 1.64 | <0.5 | 23 | 112 | 57 | 5.44 | 20 | 3.81 | 60 |
| N459883 | | <0.5 | 7.31 | 17 | 2060 | 7.4 | <2 | 4.48 | <0.5 | 18 | 51 | 164 | 5.79 | 30 | 2.46 | 120 |
| N459884 | | <0.5 | 7.15 | 6 | 3150 | 2.7 | 3 | 3.46 | <0.5 | 16 | 23 | 123 | 4.08 | 20 | 4.21 | 50 |
| N459885 | | <0.5 | 7.05 | 15 | 1430 | 2.4 | 2 | 3.95 | <0.5 | 26 | 102 | 112 | 5.76 | 20 | 3.10 | 70 |
| N459886 | | <0.5 | 7.57 | 21 | 3690 | 5.0 | 2 | 4.42 | <0.5 | 28 | 124 | 42 | 6.48 | 20 | 5.56 | 70 |
| N459887 | | <0.5 | 6.88 | 24 | 1190 | 1.7 | <2 | 4.09 | <0.5 | 25 | 52 | 59 | 6.63 | 10 | 2.73 | 60 |
| N459888 | | 0.5 | 6.21 | 21 | 8400 | 4.3 | 3 | 3.86 | <0.5 | 21 | 74 | 131 | 5.88 | 20 | 3.17 | 130 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451889 | | 0.84 | 1460 | 3 | 2.20 | 128 | 1040 | 26 | 0.24 | <5 | 18 | 839 | <20 | 0.20 | <10 | <10 |
| N451890 | | 0.45 | 1315 | 2 | 2.32 | 117 | 1130 | 18 | 0.19 | 7 | 16 | 490 | <20 | 0.19 | <10 | <10 |
| N459851 | | 2.21 | 1240 | <1 | 2.39 | 21 | 2070 | 13 | 0.04 | 6 | 18 | 1395 | 20 | 0.28 | <10 | <10 |
| N459852 | | 1.60 | 1180 | 1 | 3.24 | 27 | 2310 | 91 | 1.73 | 7 | 18 | 1080 | 20 | 0.30 | <10 | <10 |
| N459853 | | 1.76 | 1095 | <1 | 1.13 | 39 | 2730 | 52 | 0.30 | 6 | 19 | 1205 | 30 | 0.31 | <10 | <10 |
| N459854 | | 1.45 | 1220 | <1 | 2.62 | 24 | 2370 | 14 | 0.05 | 6 | 17 | 806 | 20 | 0.30 | <10 | <10 |
| N459855 | | 0.63 | 891 | <1 | 0.92 | 13 | 1850 | 19 | 0.02 | 7 | 9 | 504 | 30 | 0.27 | <10 | <10 |
| N459856 | | 0.90 | 1085 | 1 | 2.44 | 9 | 3170 | 42 | 0.04 | 5 | 7 | 1140 | 20 | 0.21 | <10 | <10 |
| N459857 | | 3.37 | 1115 | 1 | 1.76 | 47 | 2760 | 9 | 0.01 | <5 | 21 | 1035 | <20 | 0.49 | <10 | <10 |
| N459858 | | 0.93 | 1525 | 2 | 1.65 | 61 | 1230 | 31 | 0.28 | <5 | 14 | 434 | <20 | 0.22 | <10 | <10 |
| N459859 | | 1.35 | 1195 | 1 | 2.42 | 28 | 1320 | 10 | 0.02 | <5 | 16 | 289 | <20 | 0.28 | <10 | <10 |
| N459860 | | 0.38 | 874 | <1 | 2.62 | 13 | 2470 | 17 | 0.02 | <5 | 8 | 552 | 30 | 0.20 | 10 | <10 |
| N459861 | | 1.89 | 1165 | 1 | 2.10 | 17 | 1670 | 15 | 2.50 | <5 | 19 | 910 | 20 | 0.36 | <10 | <10 |
| N459862 | | 2.12 | 1335 | 1 | 2.06 | 28 | 2520 | 12 | 0.31 | <5 | 20 | 1480 | 20 | 0.40 | <10 | <10 |
| N459863 | | 0.46 | 445 | <1 | 1.14 | 9 | 1350 | 12 | 0.02 | 5 | 6 | 164 | 30 | 0.25 | <10 | <10 |
| N459864 | | 2.21 | 1105 | 1 | 0.83 | 22 | 2100 | 11 | 0.01 | <5 | 18 | 1095 | 30 | 0.42 | 10 | <10 |
| N459865 | | 2.31 | 1170 | <1 | 1.98 | 25 | 2230 | 19 | 0.05 | <5 | 18 | 1495 | 20 | 0.29 | <10 | <10 |
| N459866 | | 0.69 | 896 | <1 | 2.60 | 13 | 2370 | 23 | 0.02 | <5 | 9 | 648 | 30 | 0.22 | <10 | <10 |
| N459867 | | 1.38 | 994 | <1 | 1.11 | 64 | 1770 | 10 | 0.02 | <5 | 23 | 445 | <20 | 0.34 | <10 | <10 |
| N459868 | | 1.51 | 831 | 2 | 1.95 | 26 | 1670 | 12 | 0.03 | <5 | 15 | 422 | <20 | 0.34 | <10 | <10 |
| N459869 | | 0.31 | 712 | 1 | 1.46 | 60 | 970 | 9 | 0.08 | <5 | 10 | 297 | <20 | 0.18 | <10 | <10 |
| N459870 | | 0.52 | 936 | 2 | 1.55 | 98 | 1040 | 29 | 0.20 | 7 | 17 | 374 | <20 | 0.18 | <10 | <10 |
| N459871 | | 1.75 | 1035 | <1 | 1.08 | 21 | 3370 | 18 | 0.05 | 5 | 11 | 1030 | 40 | 0.35 | <10 | <10 |
| N459872 | | 2.69 | 1330 | <1 | 4.18 | 25 | 3020 | 29 | 0.01 | <5 | 20 | 1170 | 30 | 0.38 | <10 | <10 |
| N459873 | | 0.97 | 1180 | 1 | 2.09 | 10 | 2230 | 20 | 0.07 | 9 | 6 | 1870 | 20 | 0.26 | <10 | <10 |
| N459874 | | 1.69 | 1190 | 1 | 1.69 | 21 | 2320 | 57 | 0.04 | 9 | 15 | 1650 | 20 | 0.30 | <10 | <10 |
| N459875 | | 1.57 | 1120 | 1 | 1.45 | 20 | 2350 | 14 | 0.05 | 8 | 14 | 1455 | 20 | 0.25 | <10 | <10 |
| N459876 | | 1.34 | 781 | 1 | 0.03 | 15 | 1140 | 31 | 0.34 | 6 | 10 | 787 | <20 | 0.12 | <10 | <10 |
| N459877 | | 2.05 | 975 | <1 | 1.76 | 26 | 2250 | 20 | 0.11 | 9 | 18 | 1595 | 20 | 0.39 | <10 | <10 |
| N459878 | | 2.32 | 1250 | <1 | 2.14 | 27 | 2660 | 21 | 0.24 | 18 | 21 | 1425 | 30 | 0.29 | <10 | <10 |
| N459879 | | 2.19 | 1240 | 2 | 1.56 | 45 | 1280 | 19 | 0.06 | 6 | 22 | 425 | <20 | 0.28 | <10 | <10 |
| N459880 | | 2.17 | 1120 | 1 | 2.34 | 44 | 1620 | 13 | 0.01 | 9 | 30 | 354 | <20 | 0.49 | <10 | <10 |
| N459881 | | 1.60 | 726 | 1 | 2.14 | 62 | 870 | 58 | 0.14 | <5 | 10 | 1620 | <20 | 0.25 | <10 | <10 |
| N459882 | | 0.90 | 1385 | 1 | 0.99 | 44 | 2000 | 16 | 0.42 | 6 | 14 | 502 | 20 | 0.27 | <10 | <10 |
| N459883 | | 1.97 | 1440 | 1 | 3.56 | 23 | 3660 | 129 | 0.06 | 7 | 12 | 2440 | 40 | 0.43 | <10 | <10 |
| N459884 | | 1.10 | 1050 | 1 | 3.14 | 7 | 2180 | 31 | 0.09 | 12 | 6 | 1635 | 20 | 0.26 | <10 | <10 |
| N459885 | | 1.75 | 1180 | 1 | 3.99 | 25 | 2370 | 28 | 0.03 | 5 | 18 | 1170 | 20 | 0.28 | <10 | <10 |
| N459886 | | 2.51 | 1070 | <1 | 1.58 | 31 | 2970 | 13 | 0.01 | 9 | 20 | 964 | 20 | 0.42 | 10 | <10 |
| N459887 | | 1.21 | 1730 | 2 | 3.99 | 25 | 3020 | 21 | 2.49 | 7 | 12 | 1855 | 20 | 0.15 | <10 | <10 |
| N459888 | | 1.66 | 1690 | 1 | 2.24 | 30 | 3300 | 85 | 0.24 | 6 | 16 | 2940 | 40 | 0.35 | <10 | <10 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|
| N451889 | | 149 | <10 | 96 |
| N451890 | | 140 | <10 | 104 |
| N459851 | | 187 | <10 | 85 |
| N459852 | | 204 | 10 | 104 |
| N459853 | | 185 | 10 | 107 |
| N459854 | | 184 | 10 | 118 |
| N459855 | | 160 | <10 | 150 |
| N459856 | | 123 | 10 | 107 |
| N459857 | | 189 | <10 | 115 |
| N459858 | | 120 | <10 | 84 |
| N459859 | | 156 | <10 | 95 |
| N459860 | | 142 | <10 | 126 |
| N459861 | | 135 | 10 | 78 |
| N459862 | | 214 | <10 | 195 |
| N459863 | | 157 | 10 | 113 |
| N459864 | | 193 | 10 | 119 |
| N459865 | | 191 | 10 | 112 |
| N459866 | | 179 | 10 | 127 |
| N459867 | | 204 | <10 | 125 |
| N459868 | | 176 | <10 | 99 |
| N459869 | | 85 | <10 | 20 |
| N459870 | | 156 | <10 | 53 |
| N459871 | | 219 | <10 | 121 |
| N459872 | | 190 | <10 | 125 |
| N459873 | | 117 | <10 | 113 |
| N459874 | | 209 | 10 | 136 |
| N459875 | | 186 | 10 | 88 |
| N459876 | | 138 | <10 | 63 |
| N459877 | | 197 | <10 | 111 |
| N459878 | | 183 | <10 | 100 |
| N459879 | | 170 | <10 | 103 |
| N459880 | | 227 | <10 | 134 |
| N459881 | | 116 | <10 | 171 |
| N459882 | | 131 | <10 | 85 |
| N459883 | | 233 | <10 | 153 |
| N459884 | | 107 | <10 | 75 |
| N459885 | | 204 | <10 | 83 |
| N459886 | | 222 | <10 | 128 |
| N459887 | | 88 | <10 | 85 |
| N459888 | | 181 | <10 | 103 |

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# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
| N459889 | | <0.5 | 6.68 | <5 | 1210 | 1.5 | 2 | 4.69 | <0.5 | 16 | 58 | 41 | 4.18 | 20 | 1.74 | 50 |
| N459890 | | <0.5 | 6.85 | 21 | 6060 | 7.1 | 2 | 3.39 | <0.5 | 18 | 60 | 138 | 5.50 | 20 | 3.93 | 120 |
| N459891 | | <0.5 | 7.69 | 30 | 1760 | 3.4 | 3 | 3.61 | <0.5 | 28 | 104 | 56 | 6.29 | 20 | 4.46 | 80 |
| N459892 | | <0.5 | 8.95 | 9 | 2660 | 2.7 | 4 | 0.35 | <0.5 | 8 | 148 | 59 | 4.40 | 20 | 3.97 | 70 |
| N459893 | | <0.5 | 7.35 | 8 | 970 | 3.1 | <2 | 4.05 | <0.5 | 19 | 62 | 79 | 5.22 | 20 | 2.72 | 80 |
| N459894 | | <0.5 | 7.07 | 7 | 2450 | 2.8 | <2 | 5.91 | <0.5 | 22 | 50 | 65 | 4.93 | 20 | 2.46 | 90 |
| N459895 | | <0.5 | 7.88 | 62 | 1950 | 2.5 | <2 | 0.85 | <0.5 | 18 | 114 | 57 | 4.91 | 20 | 3.49 | 50 |
| N459896 | | <0.5 | 7.27 | 16 | 2390 | 4.0 | <2 | 4.93 | <0.5 | 27 | 107 | 58 | 5.58 | 20 | 5.49 | 80 |
| N459897 | | <0.5 | 6.77 | 40 | 2710 | 2.6 | <2 | 5.65 | <0.5 | 31 | 145 | 102 | 6.10 | 20 | 4.57 | 40 |
| N459898 | | <0.5 | 6.92 | 40 | 2390 | 2.4 | 2 | 4.44 | <0.5 | 29 | 167 | 93 | 6.35 | 20 | 3.98 | 40 |
| N459899 | | <0.5 | 7.84 | <5 | 210 | 3.9 | 2 | 2.61 | <0.5 | 23 | 79 | 41 | 3.48 | 20 | 4.29 | 10 |
| N459900 | | <0.5 | 7.96 | 84 | 2430 | 2.7 | 3 | 0.26 | <0.5 | 21 | 148 | 66 | 5.13 | 20 | 3.85 | 50 |

***** 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: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
| N459889 | | 1.81 | 1050 | 1 | 3.12 | 18 | 1390 | 15 | 0.01 | <5 | 13 | 900 | 20 | 0.28 | <10 | <10 |
| N459890 | | 1.55 | 1235 | <1 | 2.59 | 28 | 2560 | 26 | 0.16 | 6 | 11 | 2280 | 40 | 0.39 | <10 | <10 |
| N459891 | | 1.99 | 1355 | 1 | 2.59 | 28 | 2580 | 13 | 0.01 | 11 | 20 | 1065 | 20 | 0.41 | <10 | <10 |
| N459892 | | 0.29 | 915 | 1 | 0.95 | 39 | 1890 | 16 | 0.02 | 9 | 14 | 213 | 20 | 0.19 | <10 | <10 |
| N459893 | | 1.65 | 1220 | <1 | 2.99 | 20 | 2410 | 25 | 0.02 | 12 | 15 | 1205 | 20 | 0.37 | 10 | <10 |
| N459894 | | 2.44 | 1290 | <1 | 2.99 | 17 | 1930 | 16 | 0.06 | 10 | 15 | 1830 | 30 | 0.29 | <10 | <10 |
| N459895 | | 0.76 | 1345 | 2 | 1.28 | 54 | 1470 | 17 | 0.31 | 7 | 14 | 460 | <20 | 0.21 | <10 | <10 |
| N459896 | | 2.16 | 1230 | <1 | 0.27 | 28 | 2410 | 18 | 0.03 | 9 | 20 | 1400 | 20 | 0.39 | <10 | <10 |
| N459897 | | 3.62 | 1425 | 1 | 1.62 | 44 | 2630 | 26 | 0.02 | 5 | 21 | 1630 | 20 | 0.49 | 10 | <10 |
| N459898 | | 2.65 | 1135 | <1 | 1.89 | 50 | 2710 | 8 | 0.01 | 10 | 20 | 935 | <20 | 0.43 | <10 | <10 |
| N459899 | | 2.00 | 516 | 2 | 3.32 | 87 | 1130 | 37 | 0.01 | 6 | 6 | 350 | <20 | 0.62 | <10 | <10 |
| N459900 | | 0.39 | 733 | 2 | 0.49 | 48 | 1540 | 31 | 0.34 | 11 | 14 | 192 | 20 | 0.21 | <10 | <10 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

| 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 |
|---|---|---|---|---|
| N459889 | | 127 | <10 | 75 |
| N459890 | | 235 | <10 | 114 |
| N459891 | | 231 | <10 | 106 |
| N459892 | | 148 | <10 | 65 |
| N459893 | | 187 | <10 | 91 |
| N459894 | | 182 | <10 | 103 |
| N459895 | | 133 | <10 | 50 |
| N459896 | | 220 | <10 | 104 |
| N459897 | | 182 | <10 | 101 |
| N459898 | | 181 | <10 | 98 |
| N459899 | | 80 | <10 | 46 |
| N459900 | | 133 | <10 | 52 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042828

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

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

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