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: 25-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042657

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 114 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: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L178401 | | <0.5 | 6.66 | <5 | 30 | <0.5 | 5 | 5.95 | 0.7 | 49 | 118 | 110 | 8.97 | 20 | 0.05 | <10 |
| L178402 | | <0.5 | 6.65 | <5 | 40 | <0.5 | 5 | 6.50 | 0.9 | 50 | 116 | 109 | 9.26 | 20 | 0.05 | <10 |
| L178403 | | <0.5 | 6.97 | <5 | 230 | <0.5 | <2 | 7.86 | <0.5 | 41 | 333 | 57 | 7.24 | 20 | 0.50 | <10 |
| L178404 | | <0.5 | 6.73 | <5 | 130 | <0.5 | <2 | 4.96 | <0.5 | 47 | 113 | 102 | 8.62 | 20 | 0.14 | <10 |
| L178405 | | <0.5 | 6.85 | <5 | 70 | 1.0 | 3 | 5.49 | 0.6 | 51 | 120 | 118 | 10.30 | 20 | 0.19 | <10 |
| L178406 | | <0.5 | 7.28 | <5 | 830 | 1.2 | <2 | 3.12 | <0.5 | 42 | 431 | 95 | 5.93 | 20 | 2.41 | 30 |
| L178407 | | <0.5 | 6.70 | <5 | 30 | <0.5 | 4 | 6.82 | <0.5 | 48 | 142 | 114 | 9.71 | 20 | 0.03 | <10 |
| L178408 | | <0.5 | 7.09 | <5 | 130 | <0.5 | <2 | 4.47 | <0.5 | 42 | 15 | 99 | 8.13 | 20 | 0.29 | <10 |
| L178409 | | <0.5 | 5.81 | <5 | 80 | <0.5 | 7 | 5.86 | 0.7 | 68 | 3 | 17 | 12.15 | 20 | 0.20 | <10 |
| L178410 | | <0.5 | 6.62 | <5 | 20 | <0.5 | <2 | 4.08 | 0.6 | 50 | 124 | 109 | 10.25 | 20 | 0.06 | <10 |
| L178411 | | <0.5 | 6.01 | <5 | 60 | <0.5 | 7 | 6.47 | 0.6 | 71 | 3 | 179 | 12.95 | 20 | 0.16 | <10 |
| L178412 | | <0.5 | 6.57 | <5 | 1490 | 2.1 | <2 | 3.17 | <0.5 | 28 | 219 | 53 | 5.69 | 20 | 3.13 | 20 |
| L178413 | | <0.5 | 6.50 | 10 | 5730 | 3.3 | 2 | 7.69 | <0.5 | 26 | 27 | 75 | 8.41 | 20 | 3.90 | 100 |
| L178414 | | <0.5 | 6.85 | 10 | 2480 | 2.3 | <2 | 4.39 | <0.5 | 29 | 160 | 105 | 6.41 | 20 | 4.14 | 40 |
| L178415 | | <0.5 | 7.61 | <5 | 60 | <0.5 | 7 | 5.48 | <0.5 | 53 | 141 | 141 | 10.35 | 20 | 0.08 | <10 |
| L178416 | | <0.5 | 7.48 | <5 | 40 | <0.5 | <2 | 7.07 | <0.5 | 42 | 226 | 102 | 7.37 | 20 | 0.12 | <10 |
| L178417 | | <0.5 | 7.15 | <5 | 30 | <0.5 | 2 | 6.24 | <0.5 | 41 | 170 | 112 | 8.45 | 20 | 0.07 | <10 |
| L178418 | | <0.5 | 7.09 | <5 | 60 | <0.5 | <2 | 7.18 | 0.6 | 45 | 203 | 110 | 8.75 | 20 | 0.18 | <10 |
| L178419 | | <0.5 | 7.04 | <5 | 80 | <0.5 | <2 | 7.16 | <0.5 | 39 | 149 | 153 | 7.28 | 20 | 0.27 | <10 |
| L178420 | | <0.5 | 7.19 | <5 | 30 | <0.5 | <2 | 2.92 | <0.5 | 53 | 132 | 136 | 8.55 | 20 | 0.01 | <10 |
| L178421 | | <0.5 | 7.08 | <5 | 40 | <0.5 | <2 | 7.74 | <0.5 | 41 | 192 | 106 | 7.66 | 20 | 0.03 | <10 |
| L178422 | | <0.5 | 6.68 | <5 | 20 | <0.5 | 3 | 5.73 | <0.5 | 45 | 153 | 160 | 8.96 | 20 | 0.04 | <10 |
| L178423 | | <0.5 | 6.35 | 5 | 40 | <0.5 | 3 | 4.71 | <0.5 | 50 | 8 | 224 | 10.15 | 20 | 0.01 | <10 |
| L178424 | | <0.5 | 6.44 | <5 | 220 | 2.5 | <2 | 8.65 | <0.5 | 42 | 79 | 91 | 7.38 | 20 | 0.49 | 20 |
| L178425 | | <0.5 | 6.78 | <5 | 130 | 0.5 | <2 | 7.32 | <0.5 | 39 | 167 | 99 | 6.94 | 20 | 1.50 | <10 |
| L178426 | | <0.5 | 7.35 | <5 | 90 | <0.5 | 3 | 6.95 | <0.5 | 47 | 229 | 107 | 7.05 | 20 | 0.25 | <10 |
| L178427 | | <0.5 | 6.71 | <5 | 180 | <0.5 | 4 | 4.81 | 0.5 | 53 | 109 | 109 | 11.00 | 20 | 0.53 | <10 |
| L178428 | | <0.5 | 7.08 | <5 | 90 | <0.5 | 3 | 6.71 | <0.5 | 46 | 20 | 51 | 8.13 | 20 | 0.20 | <10 |
| L178429 | | <0.5 | 7.91 | <5 | 210 | <0.5 | 2 | 6.58 | <0.5 | 38 | 33 | 95 | 6.62 | 20 | 0.70 | <10 |
| L178430 | | <0.5 | 6.64 | <5 | 160 | 0.8 | <2 | 4.62 | <0.5 | 48 | 118 | 110 | 9.27 | 20 | 0.51 | <10 |
| L178431 | | <0.5 | 7.09 | <5 | 70 | <0.5 | 2 | 7.00 | <0.5 | 50 | 121 | 112 | 9.40 | 20 | 0.04 | <10 |
| L178432 | | <0.5 | 6.94 | <5 | 110 | <0.5 | <2 | 5.99 | <0.5 | 39 | 24 | 41 | 7.20 | 20 | 0.30 | <10 |
| L178434 | | <0.5 | 6.49 | <5 | 190 | <0.5 | <2 | 5.80 | <0.5 | 66 | 5 | 94 | 13.05 | 20 | 0.46 | <10 |
| L178435 | | <0.5 | 5.31 | <5 | 90 | <0.5 | 7 | 4.34 | 1.0 | 57 | 2 | 7 | 14.70 | 20 | 0.28 | 10 |
| L178436 | | <0.5 | 7.72 | 9 | 940 | 1.7 | <2 | 1.39 | <0.5 | 24 | 223 | 36 | 4.66 | 20 | 2.38 | 20 |
| L178437 | | <0.5 | 6.52 | 5 | 590 | 1.0 | <2 | 3.54 | <0.5 | 26 | 156 | 29 | 5.19 | 20 | 1.84 | 20 |
| L178438 | | <0.5 | 8.01 | 11 | 3460 | 4.8 | 2 | 2.55 | <0.5 | 17 | 50 | 144 | 5.51 | 30 | 3.95 | 120 |
| L178439 | | <0.5 | 6.55 | 5 | 2160 | 1.4 | <2 | 3.48 | <0.5 | 30 | 220 | 58 | 6.44 | 20 | 1.92 | 40 |
| L178440 | | <0.5 | 6.52 | <5 | 390 | 0.8 | <2 | 1.77 | <0.5 | 19 | 141 | 39 | 3.76 | 20 | 0.91 | 20 |
| L178441 | | <0.5 | 6.66 | <5 | 600 | 1.1 | <2 | 3.23 | <0.5 | 23 | 172 | 52 | 4.13 | 20 | 0.87 | 20 |

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

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**Finalized Date: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L178401 | | 2.35 | 1860 | <1 | 1.73 | 63 | 1010 | 6 | 0.14 | <5 | 45 | 178 | <20 | 1.06 | 10 | <10 |
| L178402 | | 2.56 | 2050 | <1 | 1.76 | 65 | 1060 | 5 | 0.15 | <5 | 45 | 118 | <20 | 1.07 | <10 | <10 |
| L178403 | | 4.55 | 1380 | <1 | 1.19 | 103 | 270 | 2 | 0.04 | <5 | 37 | 184 | <20 | 0.47 | <10 | <10 |
| L178404 | | 3.68 | 1910 | <1 | 2.22 | 67 | 1100 | 4 | 0.06 | <5 | 46 | 130 | <20 | 1.10 | <10 | <10 |
| L178405 | | 2.71 | 1995 | <1 | 1.86 | 74 | 1090 | <2 | 0.14 | <5 | 46 | 61 | <20 | 1.08 | <10 | <10 |
| L178406 | | 1.73 | 976 | <1 | 1.73 | 199 | 1350 | 7 | 0.06 | <5 | 22 | 340 | <20 | 0.38 | 10 | 10 |
| L178407 | | 3.13 | 1890 | <1 | 1.65 | 77 | 1000 | <2 | 0.12 | <5 | 45 | 246 | <20 | 1.01 | <10 | <10 |
| L178408 | | 3.07 | 1375 | <1 | 1.91 | 55 | 300 | 2 | 0.11 | <5 | 40 | 44 | <20 | 0.61 | <10 | <10 |
| L178409 | | 2.73 | 1930 | <1 | 1.62 | 3 | 380 | 3 | 0.28 | <5 | 53 | 105 | <20 | 1.45 | <10 | <10 |
| L178410 | | 2.92 | 1750 | <1 | 1.41 | 67 | 1070 | 2 | 0.07 | <5 | 45 | 91 | <20 | 1.07 | <10 | <10 |
| L178411 | | 3.37 | 1595 | <1 | 1.44 | 35 | 280 | <2 | 0.18 | <5 | 53 | 100 | <20 | 1.24 | 10 | <10 |
| L178412 | | 3.76 | 794 | <1 | 1.78 | 83 | 2520 | 6 | 0.01 | <5 | 17 | 726 | <20 | 0.50 | <10 | <10 |
| L178413 | | 1.68 | 1810 | <1 | 1.74 | 14 | 3090 | 15 | 0.05 | <5 | 21 | 1720 | 30 | 0.70 | 10 | <10 |
| L178414 | | 3.56 | 999 | <1 | 1.53 | 49 | 2910 | 6 | 0.02 | <5 | 19 | 853 | <20 | 0.54 | 10 | <10 |
| L178415 | | 2.85 | 1720 | <1 | 1.65 | 78 | 1250 | <2 | 0.18 | <5 | 55 | 152 | <20 | 1.26 | <10 | <10 |
| L178416 | | 4.74 | 1205 | <1 | 1.34 | 99 | 190 | <2 | 0.04 | <5 | 38 | 128 | <20 | 0.46 | <10 | <10 |
| L178417 | | 4.11 | 1350 | <1 | 1.91 | 62 | 330 | <2 | 0.08 | <5 | 41 | 136 | <20 | 0.71 | <10 | <10 |
| L178418 | | 4.08 | 1485 | <1 | 1.45 | 100 | 370 | <2 | 0.07 | <5 | 38 | 126 | <20 | 0.71 | <10 | <10 |
| L178419 | | 3.44 | 1275 | <1 | 1.00 | 76 | 230 | <2 | 0.09 | <5 | 43 | 169 | <20 | 0.53 | <10 | <10 |
| L178420 | | 4.56 | 1590 | <1 | 1.52 | 91 | 260 | 3 | 0.11 | <5 | 43 | 74 | <20 | 0.66 | <10 | <10 |
| L178421 | | 2.96 | 1075 | <1 | 1.84 | 91 | 400 | 2 | 0.12 | <5 | 39 | 206 | <20 | 0.71 | <10 | <10 |
| L178422 | | 4.09 | 1320 | <1 | 1.35 | 83 | 340 | <2 | 0.04 | <5 | 44 | 42 | <20 | 0.72 | <10 | <10 |
| L178423 | | 3.38 | 1325 | <1 | 1.26 | 34 | 350 | <2 | 0.13 | <5 | 48 | 227 | <20 | 0.91 | 10 | <10 |
| L178424 | | 4.66 | 1380 | <1 | 2.38 | 39 | 1500 | 9 | 0.12 | <5 | 38 | 345 | <20 | 0.49 | 10 | <10 |
| L178425 | | 3.03 | 1220 | <1 | 0.08 | 87 | 380 | <2 | 0.04 | <5 | 35 | 70 | <20 | 0.66 | <10 | <10 |
| L178426 | | 3.99 | 1385 | <1 | 1.66 | 105 | 220 | 2 | 0.03 | <5 | 35 | 130 | <20 | 0.47 | <10 | <10 |
| L178427 | | 5.48 | 1525 | <1 | 0.45 | 93 | 970 | <2 | 0.13 | <5 | 43 | 138 | <20 | 1.00 | <10 | <10 |
| L178428 | | 3.95 | 1375 | <1 | 1.86 | 58 | 300 | 2 | 0.03 | <5 | 43 | 242 | <20 | 0.56 | <10 | <10 |
| L178429 | | 3.27 | 1465 | <1 | 2.11 | 62 | 240 | 3 | 0.08 | <5 | 38 | 216 | <20 | 0.47 | <10 | <10 |
| L178430 | | 2.59 | 2010 | <1 | 1.41 | 67 | 1010 | 2 | 0.14 | <5 | 45 | 38 | <20 | 1.06 | <10 | <10 |
| L178431 | | 2.45 | 1830 | <1 | 1.89 | 77 | 1080 | 3 | 0.13 | <5 | 48 | 335 | <20 | 1.12 | <10 | <10 |
| L178432 | | 4.09 | 1170 | <1 | 2.40 | 61 | 320 | 3 | 0.04 | <5 | 43 | 154 | <20 | 0.53 | <10 | <10 |
| L178434 | | 3.34 | 1670 | <1 | 1.68 | 18 | 290 | <2 | 0.13 | <5 | 53 | 149 | <20 | 1.29 | <10 | <10 |
| L178435 | | 2.06 | 2940 | <1 | 1.43 | <1 | 500 | 3 | 0.13 | <5 | 56 | 113 | <20 | 2.04 | <10 | <10 |
| L178436 | | 1.68 | 591 | <1 | 3.20 | 91 | 950 | 9 | 0.10 | <5 | 17 | 615 | <20 | 0.36 | <10 | <10 |
| L178437 | | 1.91 | 1105 | <1 | 2.13 | 114 | 690 | 4 | 0.04 | <5 | 15 | 312 | <20 | 0.33 | <10 | 10 |
| L178438 | | 1.93 | 937 | <1 | 3.43 | 28 | 1960 | 22 | 0.03 | <5 | 9 | 1275 | 30 | 0.46 | <10 | <10 |
| L178439 | | 2.17 | 1235 | <1 | 2.47 | 127 | 1460 | 20 | 0.08 | <5 | 20 | 763 | <20 | 0.40 | <10 | <10 |
| L178440 | | 1.76 | 617 | <1 | 3.48 | 77 | 660 | 5 | 0.10 | <5 | 12 | 377 | <20 | 0.29 | <10 | <10 |
| L178441 | | 1.76 | 1070 | <1 | 3.31 | 91 | 730 | 8 | 0.10 | <5 | 16 | 588 | <20 | 0.34 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
|---|---|---|---|---|
| L178401 | | 376 | <10 | 117 |
| L178402 | | 375 | <10 | 119 |
| L178403 | | 255 | <10 | 62 |
| L178404 | | 393 | <10 | 133 |
| L178405 | | 382 | <10 | 107 |
| L178406 | | 193 | <10 | 143 |
| L178407 | | 368 | <10 | 117 |
| L178408 | | 316 | <10 | 67 |
| L178409 | | 844 | <10 | 80 |
| L178410 | | 378 | <10 | 104 |
| L178411 | | 1140 | <10 | 87 |
| L178412 | | 171 | <10 | 137 |
| L178413 | | 327 | <10 | 127 |
| L178414 | | 186 | <10 | 120 |
| L178415 | | 421 | <10 | 115 |
| L178416 | | 258 | <10 | 69 |
| L178417 | | 362 | <10 | 76 |
| L178418 | | 332 | <10 | 82 |
| L178419 | | 303 | <10 | 75 |
| L178420 | | 365 | <10 | 91 |
| L178421 | | 325 | <10 | 77 |
| L178422 | | 356 | <10 | 92 |
| L178423 | | 530 | <10 | 94 |
| L178424 | | 228 | <10 | 93 |
| L178425 | | 306 | <10 | 75 |
| L178426 | | 273 | <10 | 78 |
| L178427 | | 364 | <10 | 108 |
| L178428 | | 294 | <10 | 73 |
| L178429 | | 251 | <10 | 48 |
| L178430 | | 374 | <10 | 124 |
| L178431 | | 399 | <10 | 102 |
| L178432 | | 246 | <10 | 48 |
| L178434 | | 1060 | <10 | 100 |
| L178435 | | 105 | <10 | 106 |
| L178436 | | 131 | <10 | 99 |
| L178437 | | 117 | 10 | 83 |
| L178438 | | 190 | <10 | 148 |
| L178439 | | 167 | <10 | 100 |
| L178440 | | 99 | <10 | 74 |
| L178441 | | 128 | <10 | 82 |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L178442 | | <0.5 | 7.22 | 22 | 770 | 1.4 | 2 | 2.71 | <0.5 | 21 | 176 | 45 | 4.63 | 20 | 1.36 | 30 |
| L178443 | | <0.5 | 7.51 | <5 | 1840 | 2.0 | <2 | 2.02 | <0.5 | 13 | 99 | 56 | 3.83 | 20 | 2.58 | 20 |
| L178444 | | <0.5 | 7.45 | <5 | 3020 | 1.6 | <2 | 3.48 | <0.5 | 18 | 63 | 20 | 4.40 | 20 | 4.97 | 60 |
| L178445 | | <0.5 | 7.22 | <5 | 2110 | 1.7 | <2 | 2.88 | <0.5 | 21 | 61 | 34 | 5.08 | 20 | 3.69 | 50 |
| L178446 | | <0.5 | 6.92 | <5 | 1410 | 2.3 | <2 | 4.00 | <0.5 | 40 | 315 | 202 | 5.97 | 30 | 2.38 | 40 |
| L178447 | | <0.5 | 8.52 | <5 | 2130 | 1.8 | <2 | 0.81 | <0.5 | 3 | 32 | 64 | 1.72 | 20 | 4.68 | 30 |
| L178448 | | 0.6 | 7.05 | 5 | 2070 | 3.8 | <2 | 3.81 | <0.5 | 19 | 60 | 365 | 3.69 | 20 | 4.93 | 70 |
| L178449 | | <0.5 | 7.72 | 6 | 1140 | 1.6 | 2 | 4.11 | <0.5 | 35 | 39 | 84 | 6.79 | 20 | 2.17 | 40 |
| L178450 | | <0.5 | 7.49 | 8 | 2140 | 1.7 | <2 | 1.47 | <0.5 | 22 | 221 | 33 | 5.19 | 20 | 1.93 | 50 |
| L178451 | | <0.5 | 7.93 | <5 | 1080 | 2.0 | <2 | 2.77 | <0.5 | 12 | 56 | 77 | 3.25 | 20 | 3.20 | 30 |
| L178452 | | <0.5 | 8.31 | <5 | 1130 | 2.1 | <2 | 1.38 | <0.5 | 15 | 53 | 20 | 3.92 | 20 | 2.82 | 30 |
| L178453 | | <0.5 | 7.10 | 5 | 660 | 1.1 | <2 | 1.17 | <0.5 | 9 | 95 | 12 | 2.58 | 20 | 1.78 | 20 |
| L178454 | | <0.5 | 5.74 | <5 | 4490 | 1.2 | 2 | 3.17 | <0.5 | 59 | 910 | 81 | 6.74 | 20 | 0.61 | 20 |
| L178455 | | <0.5 | 8.06 | <5 | 2080 | 2.4 | <2 | 1.46 | <0.5 | 7 | 44 | 198 | 2.22 | 20 | 4.23 | 30 |
| L178456 | | <0.5 | 6.51 | 5 | 2810 | 1.2 | <2 | 3.93 | <0.5 | 32 | 156 | 5 | 6.55 | 20 | 1.26 | 40 |
| L178457 | | <0.5 | 7.57 | <5 | 1420 | 1.6 | <2 | 5.04 | <0.5 | 18 | 132 | 34 | 4.33 | 20 | 2.16 | 40 |
| L178501 | | <0.5 | 6.47 | 5 | 390 | 1.2 | <2 | 2.86 | <0.5 | 28 | 187 | 43 | 4.19 | 20 | 0.96 | 30 |
| L178502 | | <0.5 | 6.31 | 10 | 750 | 1.6 | <2 | 3.55 | <0.5 | 19 | 164 | 49 | 4.11 | 20 | 1.63 | 30 |
| L178503 | | <0.5 | 7.09 | 10 | 2350 | 6.0 | 3 | 4.56 | <0.5 | 22 | 101 | 67 | 6.08 | 30 | 4.48 | 140 |
| L178504 | | <0.5 | 7.25 | 24 | 3880 | 4.4 | <2 | 3.69 | <0.5 | 28 | 140 | 123 | 6.57 | 20 | 4.40 | 140 |
| L178505 | | <0.5 | 6.41 | 5 | 2990 | 1.3 | <2 | 2.80 | <0.5 | 20 | 157 | 46 | 4.04 | 20 | 1.28 | 30 |
| L178506 | | <0.5 | 6.50 | 14 | 2990 | 5.0 | <2 | 5.04 | <0.5 | 19 | 58 | 69 | 5.28 | 20 | 4.40 | 120 |
| L178507 | | <0.5 | 6.33 | <5 | 1050 | 7.5 | <2 | 6.62 | <0.5 | 11 | 34 | 152 | 4.61 | 20 | 2.27 | 140 |
| L178508 | | <0.5 | 8.09 | <5 | 1920 | 3.9 | <2 | 2.82 | <0.5 | 17 | 13 | 122 | 4.52 | 20 | 4.08 | 50 |
| L178509 | | <0.5 | 8.98 | <5 | 2950 | 5.7 | <2 | 1.67 | <0.5 | 11 | 21 | 31 | 3.69 | 20 | 4.19 | 60 |
| L178510 | | <0.5 | 6.68 | 9 | 3770 | 3.5 | <2 | 5.15 | <0.5 | 18 | 50 | 96 | 5.66 | 20 | 2.41 | 150 |
| L178511 | | <0.5 | 6.43 | 12 | 2960 | 5.1 | 5 | 4.87 | <0.5 | 34 | 56 | 145 | 8.66 | 20 | 4.55 | 170 |
| L178512 | | 2.1 | 7.05 | 12 | 1450 | 1.7 | <2 | 3.15 | 0.6 | 18 | 112 | 47 | 3.62 | 20 | 2.98 | 40 |
| L178513 | | <0.5 | 6.42 | 22 | 680 | 1.3 | <2 | 5.13 | <0.5 | 41 | 414 | 94 | 6.76 | 20 | 1.71 | 20 |
| L178514 | | <0.5 | 6.11 | 28 | 500 | 1.1 | <2 | 6.20 | <0.5 | 16 | 143 | 31 | 2.64 | 20 | 1.60 | 20 |
| L178515 | | <0.5 | 7.15 | 14 | 1000 | 1.6 | <2 | 4.03 | <0.5 | 17 | 74 | 130 | 4.59 | 20 | 2.59 | 50 |
| L178516 | | <0.5 | 8.09 | <5 | 70 | <0.5 | <2 | 3.50 | <0.5 | 43 | 39 | 68 | 6.64 | 20 | 0.11 | 10 |
| L178517 | | <0.5 | 6.60 | 13 | 1360 | 1.6 | <2 | 5.87 | <0.5 | 17 | 60 | 51 | 3.95 | 20 | 3.19 | 60 |
| L178518 | | <0.5 | 8.74 | <5 | 140 | <0.5 | 3 | 5.20 | <0.5 | 43 | 185 | 62 | 4.78 | 20 | 0.53 | 10 |
| L178519 | | <0.5 | 7.74 | 10 | 2140 | 3.2 | <2 | 3.86 | <0.5 | 6 | 40 | 92 | 5.86 | 20 | 4.35 | 70 |
| L178520 | | <0.5 | 7.34 | 8 | 560 | 1.8 | <2 | 2.17 | <0.5 | 26 | 172 | 61 | 4.94 | 20 | 1.63 | 40 |
| L178521 | | <0.5 | 7.15 | <5 | 1560 | 1.6 | <2 | 2.17 | <0.5 | 22 | 164 | 27 | 4.73 | 20 | 1.14 | 40 |
| L178522 | | <0.5 | 6.47 | 9 | 4690 | 4.8 | <2 | 6.02 | <0.5 | 23 | 28 | 106 | 6.28 | 20 | 4.27 | 160 |
| L178523 | | <0.5 | 7.86 | 5 | 1960 | 3.5 | <2 | 4.45 | <0.5 | 21 | 55 | 78 | 5.33 | 20 | 3.58 | 100 |
| L178524 | | <0.5 | 7.86 | 16 | 2430 | 3.4 | <2 | 4.82 | <0.5 | 21 | 51 | 92 | 5.53 | 20 | 4.66 | 90 |

***** 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: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
| L178442 | | 1.85 | 957 | <1 | 3.22 | 78 | 910 | 16 | 0.17 | <5 | 14 | 1035 | <20 | 0.37 | <10 | <10 |
| L178443 | | 0.76 | 658 | <1 | 3.10 | 37 | 940 | 9 | 0.03 | <5 | 14 | 514 | <20 | 0.32 | <10 | <10 |
| L178444 | | 1.65 | 850 | <1 | 3.07 | 26 | 2480 | 22 | 0.05 | <5 | 12 | 1725 | <20 | 0.34 | <10 | <10 |
| L178445 | | 2.10 | 1115 | <1 | 3.61 | 27 | 2500 | 76 | 0.01 | <5 | 13 | 1240 | <20 | 0.37 | <10 | <10 |
| L178446 | | 5.02 | 1650 | 2 | 3.02 | 103 | 2200 | 114 | 0.02 | <5 | 26 | 878 | <20 | 0.50 | <10 | <10 |
| L178447 | | 0.28 | 288 | <1 | 4.37 | 10 | 520 | 27 | 0.02 | <5 | 3 | 1145 | <20 | 0.14 | <10 | <10 |
| L178448 | | 2.23 | 1000 | <1 | 3.04 | 24 | 2570 | 25 | 0.02 | <5 | 15 | 1345 | 20 | 0.35 | <10 | <10 |
| L178449 | | 2.10 | 1050 | <1 | 2.71 | 18 | 2130 | 7 | 0.01 | <5 | 25 | 717 | <20 | 0.52 | <10 | <10 |
| L178450 | | 2.25 | 840 | <1 | 3.56 | 82 | 1400 | 15 | 0.10 | <5 | 17 | 759 | <20 | 0.31 | <10 | <10 |
| L178451 | | 1.24 | 673 | <1 | 2.80 | 14 | 1390 | 7 | 0.02 | <5 | 10 | 674 | <20 | 0.30 | 10 | <10 |
| L178452 | | 1.47 | 620 | <1 | 3.07 | 15 | 1310 | 6 | <0.01 | <5 | 14 | 544 | <20 | 0.35 | <10 | <10 |
| L178453 | | 1.14 | 436 | <1 | 2.98 | 49 | 470 | 4 | 0.04 | <5 | 9 | 367 | <20 | 0.23 | <10 | <10 |
| L178454 | | 5.06 | 960 | <1 | 1.09 | 632 | 680 | 8 | 0.18 | <5 | 22 | 517 | <20 | 0.32 | <10 | <10 |
| L178455 | | 0.81 | 503 | <1 | 4.21 | 18 | 820 | 27 | 0.04 | <5 | 5 | 1435 | <20 | 0.14 | <10 | <10 |
| L178456 | | 3.14 | 1060 | <1 | 2.43 | 59 | 1620 | 26 | 0.06 | <5 | 28 | 1095 | 20 | 0.39 | <10 | <10 |
| L178457 | | 2.39 | 1125 | <1 | 3.03 | 32 | 1310 | 8 | 0.04 | <5 | 20 | 655 | <20 | 0.36 | <10 | <10 |
| L178501 | | 1.67 | 812 | <1 | 2.78 | 84 | 740 | 6 | 0.32 | <5 | 16 | 282 | <20 | 0.35 | <10 | <10 |
| L178502 | | 2.11 | 947 | <1 | 2.64 | 82 | 900 | 15 | 0.12 | <5 | 15 | 542 | <20 | 0.33 | <10 | <10 |
| L178503 | | 2.06 | 862 | <1 | 1.50 | 53 | 3120 | 26 | 0.01 | <5 | 14 | 2200 | 40 | 0.47 | <10 | <10 |
| L178504 | | 2.75 | 1165 | <1 | 1.45 | 44 | 5400 | 15 | 0.05 | <5 | 16 | 2190 | 40 | 0.56 | <10 | <10 |
| L178505 | | 1.76 | 797 | <1 | 2.47 | 83 | 740 | 4 | 0.25 | <5 | 15 | 1050 | <20 | 0.34 | <10 | <10 |
| L178506 | | 2.02 | 914 | <1 | 1.36 | 26 | 3510 | 26 | 0.02 | <5 | 15 | 2620 | 40 | 0.39 | <10 | <10 |
| L178507 | | 2.24 | 1435 | <1 | 3.63 | 18 | 3750 | 11 | 0.04 | <5 | 13 | 2080 | 40 | 0.41 | <10 | <10 |
| L178508 | | 1.07 | 1185 | <1 | 2.18 | 6 | 2580 | 28 | 0.13 | <5 | 5 | 1290 | 20 | 0.32 | <10 | <10 |
| L178509 | | 0.72 | 1070 | 5 | 1.30 | 8 | 1410 | 42 | 0.01 | <5 | 6 | 1480 | 30 | 0.29 | <10 | <10 |
| L178510 | | 1.67 | 1020 | <1 | 4.14 | 23 | 3620 | 28 | 0.14 | 5 | 13 | 3630 | 40 | 0.43 | <10 | <10 |
| L178511 | | 2.08 | 1370 | <1 | 1.33 | 25 | 7320 | 20 | 0.16 | <5 | 17 | 1635 | 40 | 0.62 | <10 | <10 |
| L178512 | | 1.95 | 1295 | <1 | 1.70 | 64 | 1210 | 126 | 1.75 | 14 | 10 | 587 | <20 | 0.19 | <10 | <10 |
| L178513 | | 4.25 | 1220 | <1 | 2.68 | 157 | 1380 | 10 | 0.07 | <5 | 28 | 847 | <20 | 0.56 | <10 | <10 |
| L178514 | | 1.61 | 533 | <1 | 2.34 | 63 | 460 | 34 | 0.19 | <5 | 12 | 637 | <20 | 0.27 | <10 | 10 |
| L178515 | | 2.05 | 642 | <1 | 2.42 | 52 | 1860 | 7 | 0.01 | <5 | 11 | 988 | <20 | 0.28 | <10 | <10 |
| L178516 | | 2.75 | 1165 | <1 | 2.93 | 153 | 600 | <2 | 0.06 | <5 | 19 | 157 | <20 | 0.63 | <10 | <10 |
| L178517 | | 2.51 | 926 | <1 | 1.09 | 41 | 1780 | 36 | 0.02 | <5 | 11 | 848 | <20 | 0.24 | <10 | <10 |
| L178518 | | 1.60 | 970 | <1 | 2.51 | 208 | 620 | 4 | 0.14 | <5 | 26 | 207 | <20 | 0.74 | <10 | <10 |
| L178519 | | 1.97 | 816 | <1 | 1.93 | 16 | 2640 | 10 | 0.10 | <5 | 14 | 513 | 20 | 0.40 | <10 | <10 |
| L178520 | | 2.11 | 778 | <1 | 2.69 | 112 | 980 | 10 | 0.13 | <5 | 16 | 346 | <20 | 0.35 | <10 | <10 |
| L178521 | | 1.84 | 925 | <1 | 3.30 | 95 | 930 | 5 | 0.06 | <5 | 16 | 305 | <20 | 0.38 | <10 | <10 |
| L178522 | | 1.94 | 1255 | <1 | 2.28 | 17 | 5190 | 17 | 0.09 | <5 | 17 | 2030 | 40 | 0.49 | <10 | <10 |
| L178523 | | 1.85 | 1150 | <1 | 3.06 | 17 | 2430 | 16 | 0.03 | 5 | 17 | 1705 | 30 | 0.43 | <10 | <10 |
| L178524 | | 2.07 | 1225 | <1 | 2.99 | 17 | 2530 | 19 | 0.04 | <5 | 16 | 1845 | 30 | 0.44 | <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: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
|---|---|---|---|---|
| L178442 | | 136 | <10 | 91 |
| L178443 | | 152 | 10 | 59 |
| L178444 | | 124 | <10 | 92 |
| L178445 | | 133 | 10 | 120 |
| L178446 | | 197 | <10 | 354 |
| L178447 | | 49 | <10 | 26 |
| L178448 | | 109 | <10 | 111 |
| L178449 | | 232 | <10 | 146 |
| L178450 | | 140 | <10 | 101 |
| L178451 | | 126 | <10 | 55 |
| L178452 | | 137 | <10 | 75 |
| L178453 | | 75 | <10 | 52 |
| L178454 | | 171 | <10 | 136 |
| L178455 | | 70 | <10 | 65 |
| L178456 | | 200 | <10 | 158 |
| L178457 | | 167 | <10 | 68 |
| L178501 | | 121 | <10 | 80 |
| L178502 | | 124 | <10 | 76 |
| L178503 | | 221 | <10 | 116 |
| L178504 | | 228 | <10 | 141 |
| L178505 | | 124 | <10 | 82 |
| L178506 | | 189 | <10 | 94 |
| L178507 | | 134 | <10 | 71 |
| L178508 | | 132 | <10 | 111 |
| L178509 | | 130 | <10 | 121 |
| L178510 | | 155 | <10 | 86 |
| L178511 | | 268 | <10 | 86 |
| L178512 | | 82 | <10 | 335 |
| L178513 | | 198 | <10 | 109 |
| L178514 | | 77 | <10 | 62 |
| L178515 | | 112 | <10 | 90 |
| L178516 | | 212 | <10 | 75 |
| L178517 | | 103 | <10 | 84 |
| L178518 | | 240 | <10 | 81 |
| L178519 | | 182 | <10 | 42 |
| L178520 | | 140 | <10 | 97 |
| L178521 | | 135 | <10 | 88 |
| L178522 | | 199 | <10 | 97 |
| L178523 | | 195 | <10 | 104 |
| L178524 | | 200 | <10 | 112 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L178525 | | <0.5 | 7.53 | 17 | 1740 | 3.3 | <2 | 4.26 | <0.5 | 21 | 53 | 130 | 5.25 | 20 | 3.97 | 90 |
| L178526 | | <0.5 | 8.88 | 8 | 3350 | 3.6 | <2 | 2.01 | <0.5 | 17 | 14 | 32 | 4.85 | 20 | 4.64 | 80 |
| L178527 | | 1.2 | 10.35 | <5 | 3080 | 5.6 | <2 | 1.28 | <0.5 | 6 | 2 | 91 | 2.73 | 20 | 5.50 | 60 |
| L178528 | | <0.5 | 7.73 | 11 | 1850 | 2.1 | <2 | 4.65 | <0.5 | 19 | 60 | 108 | 5.32 | 20 | 3.85 | 90 |
| L178529 | | <0.5 | 8.16 | 27 | 2240 | 2.8 | <2 | 3.16 | <0.5 | 20 | 86 | 81 | 5.44 | 20 | 3.41 | 80 |
| L178530 | | 0.5 | 5.89 | 21 | 6320 | 4.3 | 2 | 7.10 | <0.5 | 27 | 51 | 207 | 6.50 | 20 | 2.96 | 140 |
| L178531 | | 0.5 | 9.53 | 19 | 5490 | 7.2 | 2 | 1.91 | <0.5 | 16 | 86 | 137 | 4.85 | 30 | 5.89 | 80 |
| L178532 | | 0.5 | 8.18 | 30 | 4920 | 3.0 | <2 | 3.00 | <0.5 | 12 | 71 | 211 | 3.22 | 20 | 4.55 | 70 |
| L178534 | | <0.5 | 10.35 | <5 | 3470 | 4.6 | <2 | 1.11 | <0.5 | 7 | 4 | 23 | 2.69 | 20 | 5.42 | 70 |
| L178535 | | <0.5 | 8.01 | 8 | 2540 | 2.8 | <2 | 4.09 | <0.5 | 25 | 55 | 91 | 5.76 | 20 | 4.30 | 100 |
| L178536 | | <0.5 | 6.72 | <5 | 440 | 1.5 | <2 | 4.61 | <0.5 | 30 | 209 | 68 | 6.18 | 20 | 0.80 | 40 |
| L178537 | | <0.5 | 9.38 | <5 | 1450 | 4.3 | <2 | 2.67 | <0.5 | 16 | 14 | 104 | 4.43 | 20 | 5.17 | 70 |
| L178538 | | <0.5 | 7.44 | 39 | 640 | 1.2 | <2 | 0.83 | <0.5 | 28 | 208 | 62 | 3.19 | 20 | 1.99 | 30 |
| L178539 | | <0.5 | 7.59 | 58 | 380 | 0.8 | <2 | 4.64 | <0.5 | 40 | 189 | 66 | 7.80 | 20 | 1.85 | <10 |
| L178540 | | <0.5 | 6.67 | <5 | 570 | 1.7 | <2 | 1.99 | <0.5 | 28 | 347 | 105 | 4.18 | 20 | 1.30 | 20 |
| L178541 | | <0.5 | 5.69 | <5 | 40 | <0.5 | <2 | 6.93 | <0.5 | 37 | 27 | 44 | 9.39 | 20 | 0.12 | 10 |
| L178542 | | <0.5 | 6.94 | <5 | 350 | 1.1 | <2 | 5.29 | <0.5 | 37 | 242 | 18 | 6.40 | 20 | 1.66 | <10 |
| L178543 | | <0.5 | 6.62 | 13 | 620 | 0.9 | <2 | 2.34 | <0.5 | 18 | 182 | 31 | 3.97 | 20 | 1.45 | 20 |
| L178544 | | <0.5 | 5.66 | 10 | 2310 | 7.6 | <2 | 5.16 | <0.5 | 33 | 42 | 57 | 8.86 | 20 | 3.67 | 170 |
| L178545 | | <0.5 | 6.97 | 40 | 840 | 1.3 | <2 | 4.39 | <0.5 | 17 | 130 | 23 | 3.21 | 20 | 3.26 | 30 |
| L178546 | | <0.5 | 7.68 | <5 | 2780 | 3.5 | <2 | 2.75 | <0.5 | 18 | 16 | 103 | 4.82 | 10 | 4.82 | 60 |
| L178547 | | <0.5 | 7.21 | <5 | 400 | 0.8 | <2 | 1.68 | <0.5 | 5 | 17 | 1 | 1.29 | 20 | 1.48 | 10 |
| L178549 | | <0.5 | 6.77 | 5 | 1530 | 1.8 | <2 | 1.96 | <0.5 | 13 | 37 | 13 | 2.80 | 20 | 3.02 | 40 |
| L178550 | | <0.5 | 7.52 | 13 | 1270 | 1.0 | <2 | 1.63 | <0.5 | 34 | 228 | 205 | 4.27 | 20 | 4.55 | 20 |
| L178551 | | <0.5 | 8.00 | <5 | 540 | 0.7 | <2 | 4.59 | <0.5 | 20 | 23 | 33 | 5.35 | 20 | 2.05 | 10 |
| L178552 | | <0.5 | 7.26 | <5 | 2380 | 1.5 | <2 | 1.98 | <0.5 | 11 | 44 | 2 | 2.76 | 20 | 2.07 | 30 |
| L178553 | | <0.5 | 6.56 | <5 | 1740 | 2.0 | <2 | 4.76 | <0.5 | 25 | 77 | 1 | 5.84 | 20 | 2.46 | 70 |
| L178554 | | <0.5 | 7.35 | 10 | 1280 | 2.3 | <2 | 4.43 | <0.5 | 21 | 93 | 15 | 5.82 | 20 | 2.56 | 70 |
| L178555 | | <0.5 | 9.61 | 7 | 2650 | 4.4 | <2 | 1.03 | <0.5 | 9 | 3 | 21 | 3.19 | 20 | 3.99 | 70 |
| L178556 | | <0.5 | 6.51 | <5 | 200 | 0.6 | <2 | 5.39 | <0.5 | 18 | 76 | 2 | 4.07 | 20 | 0.74 | 10 |
| L178557 | | <0.5 | 6.90 | 15 | 960 | 2.8 | 3 | 4.76 | <0.5 | 21 | 38 | 480 | 6.04 | 20 | 3.49 | 60 |
| L178558 | | <0.5 | 6.88 | 22 | 70 | 0.5 | <2 | 3.24 | <0.5 | 41 | 497 | 50 | 4.83 | 10 | 0.23 | 10 |
| L178559 | | <0.5 | 6.41 | 7 | 170 | 0.5 | <2 | 4.28 | <0.5 | 8 | 285 | 113 | 4.44 | 20 | 2.97 | 10 |
| L178560 | | <0.5 | 6.79 | 16 | 2010 | 1.3 | <2 | 1.97 | <0.5 | 12 | 89 | 10 | 2.39 | 20 | 1.58 | 20 |

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

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**Finalized Date: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
| L178525 | | 1.98 | 1130 | <1 | 2.46 | 18 | 2330 | 24 | 0.02 | <5 | 16 | 1620 | 30 | 0.44 | <10 | <10 |
| L178526 | | 0.89 | 1265 | <1 | 1.59 | 7 | 2970 | 32 | 0.04 | <5 | 6 | 940 | 20 | 0.23 | <10 | <10 |
| L178527 | | 0.49 | 874 | <1 | 3.11 | 1 | 990 | 185 | 0.03 | <5 | 2 | 1275 | 30 | 0.24 | <10 | <10 |
| L178528 | | 1.78 | 1125 | <1 | 3.53 | 18 | 2220 | 28 | 0.04 | <5 | 15 | 1720 | 30 | 0.35 | <10 | <10 |
| L178529 | | 2.70 | 991 | <1 | 3.86 | 27 | 2450 | 9 | 0.08 | <5 | 16 | 1315 | 20 | 0.39 | <10 | <10 |
| L178530 | | 3.24 | 2100 | <1 | 1.30 | 20 | 3700 | 20 | 0.45 | <5 | 18 | 5620 | 50 | 0.59 | <10 | <10 |
| L178531 | | 1.50 | 1310 | 11 | 2.70 | 25 | 1740 | 57 | 0.05 | <5 | 8 | 1155 | 30 | 0.49 | <10 | <10 |
| L178532 | | 0.92 | 954 | 14 | 1.28 | 17 | 3480 | 33 | 0.60 | 6 | 6 | 1600 | 30 | 0.38 | <10 | 10 |
| L178534 | | 0.36 | 1135 | <1 | 3.53 | <1 | 1090 | 41 | 0.05 | <5 | 2 | 1095 | 30 | 0.25 | 10 | <10 |
| L178535 | | 2.16 | 1175 | <1 | 3.25 | 20 | 2460 | 34 | 0.02 | <5 | 16 | 1275 | 30 | 0.46 | <10 | <10 |
| L178536 | | 3.06 | 1225 | <1 | 3.43 | 136 | 1400 | 16 | 0.05 | <5 | 23 | 1075 | <20 | 0.44 | <10 | 10 |
| L178537 | | 0.96 | 1050 | <1 | 2.71 | 7 | 2990 | 16 | 0.02 | <5 | 6 | 1080 | 20 | 0.30 | <10 | <10 |
| L178538 | | 1.00 | 277 | 5 | 1.61 | 108 | 750 | 15 | 0.29 | <5 | 13 | 199 | <20 | 0.25 | 10 | <10 |
| L178539 | | 2.18 | 1370 | <1 | 1.42 | 145 | 330 | 9 | 0.11 | <5 | 26 | 238 | <20 | 0.41 | 10 | <10 |
| L178540 | | 3.65 | 333 | <1 | 1.21 | 220 | 1390 | 8 | 0.01 | <5 | 13 | 173 | <20 | 0.26 | <10 | <10 |
| L178541 | | 2.43 | 1800 | 1 | 0.87 | 91 | 570 | 4 | 0.01 | <5 | 30 | 99 | <20 | 0.31 | 10 | <10 |
| L178542 | | 2.55 | 1090 | <1 | 0.76 | 98 | 410 | <2 | 0.28 | 5 | 22 | 273 | <20 | 0.69 | <10 | <10 |
| L178543 | | 1.61 | 658 | <1 | 2.29 | 92 | 570 | 9 | 0.13 | <5 | 12 | 357 | <20 | 0.25 | <10 | <10 |
| L178544 | | 2.29 | 1370 | <1 | 0.04 | 34 | 6110 | 18 | 0.05 | <5 | 19 | 1875 | 30 | 0.51 | 10 | <10 |
| L178545 | | 1.97 | 748 | <1 | 2.34 | 71 | 610 | 9 | 0.08 | <5 | 11 | 909 | <20 | 0.26 | <10 | <10 |
| L178546 | | 0.95 | 1440 | 1 | 3.07 | 10 | 2760 | 29 | 0.04 | <5 | 5 | 1195 | 20 | 0.31 | <10 | <10 |
| L178547 | | 0.67 | 143 | <1 | 4.32 | 8 | 400 | 5 | 0.44 | <5 | 4 | 305 | <20 | 0.13 | 10 | <10 |
| L178549 | | 0.99 | 378 | 1 | 4.00 | 19 | 1250 | 8 | 0.65 | <5 | 6 | 676 | <20 | 0.24 | 10 | <10 |
| L178550 | | 1.94 | 479 | <1 | 0.44 | 147 | 900 | 7 | 0.60 | <5 | 17 | 420 | <20 | 0.31 | <10 | <10 |
| L178551 | | 2.34 | 1050 | <1 | 1.23 | 15 | 1080 | 6 | <0.01 | <5 | 20 | 99 | <20 | 0.59 | <10 | <10 |
| L178552 | | 0.90 | 581 | <1 | 3.93 | 22 | 990 | 14 | 0.10 | <5 | 7 | 762 | <20 | 0.22 | <10 | <10 |
| L178553 | | 2.30 | 1055 | <1 | 2.28 | 32 | 2810 | 11 | 0.05 | <5 | 20 | 2090 | 20 | 0.41 | <10 | <10 |
| L178554 | | 2.92 | 907 | <1 | 2.62 | 41 | 2670 | 8 | 0.01 | <5 | 20 | 1485 | 20 | 0.44 | <10 | <10 |
| L178555 | | 0.45 | 819 | <1 | 3.12 | 3 | 1190 | 15 | 0.01 | 12 | 3 | 651 | 30 | 0.25 | <10 | <10 |
| L178556 | | 1.48 | 744 | <1 | 0.83 | 71 | 630 | 3 | <0.01 | <5 | 15 | 178 | <20 | 0.40 | <10 | <10 |
| L178557 | | 1.86 | 1360 | <1 | 1.69 | 16 | 2340 | 12 | 1.05 | 9 | 12 | 961 | 20 | 0.35 | <10 | <10 |
| L178558 | | 3.39 | 549 | 1 | 2.68 | 242 | 700 | 3 | 0.10 | <5 | 23 | 381 | <20 | 0.42 | <10 | <10 |
| L178559 | | 2.48 | 378 | 1 | 0.23 | 128 | 670 | 4 | 0.02 | 7 | 21 | 80 | <20 | 0.33 | <10 | <10 |
| L178560 | | 1.49 | 467 | <1 | 4.07 | 49 | 760 | 5 | 0.08 | <5 | 8 | 530 | <20 | 0.17 | <10 | <10 |

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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


**Finalized Date: 25-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042657

| 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 |
|---|---|---|---|---|
| L178525 | | 191 | <10 | 87 |
| L178526 | | 117 | <10 | 112 |
| L178527 | | 75 | <10 | 155 |
| L178528 | | 186 | <10 | 134 |
| L178529 | | 144 | 10 | 90 |
| L178530 | | 217 | <10 | 140 |
| L178531 | | 226 | 10 | 251 |
| L178532 | | 148 | 10 | 61 |
| L178534 | | 63 | <10 | 120 |
| L178535 | | 204 | <10 | 162 |
| L178536 | | 200 | <10 | 120 |
| L178537 | | 132 | <10 | 106 |
| L178538 | | 105 | <10 | 65 |
| L178539 | | 205 | <10 | 112 |
| L178540 | | 156 | <10 | 75 |
| L178541 | | 131 | <10 | 232 |
| L178542 | | 187 | <10 | 109 |
| L178543 | | 99 | <10 | 73 |
| L178544 | | 237 | <10 | 146 |
| L178545 | | 94 | <10 | 84 |
| L178546 | | 107 | <10 | 110 |
| L178547 | | 37 | <10 | 18 |
| L178549 | | 68 | <10 | 20 |
| L178550 | | 126 | 10 | 49 |
| L178551 | | 164 | <10 | 76 |
| L178552 | | 64 | <10 | 54 |
| L178553 | | 166 | <10 | 103 |
| L178554 | | 161 | <10 | 164 |
| L178555 | | 89 | <10 | 101 |
| L178556 | | 105 | <10 | 113 |
| L178557 | | 182 | 10 | 61 |
| L178558 | | 148 | <10 | 40 |
| L178559 | | 142 | <10 | 39 |
| L178560 | | 61 | <10 | 26 |

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

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**Finalized Date: 25-MAR-2014**
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# CERTIFICATE OF ANALYSIS SD14042657

## CERTIFICATE COMMENTS

### 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