ALS Canada Ltd.

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

To: **XSTRATA ZINC CANADA**
**8801 TRANS CANADA HWY**
**SUITE 400**
**SAINT-LAURENT QC H4S 1Z6**


**Finalized Date: 5-MAY-2011**
**Account: XSZNEX**

# CERTIFICATE TB11061671

Project: STURGEON LAKE

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 13-APR-2011.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| LUCY POTTER | | |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| PUL-32 | Pulverize 1000g to 85% < 75 um |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | 38 element fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |

To: **XSTRATA ZINC CANADA**
**ATTN: LUCY POTTER**
**8801 TRANS CANADA HWY**
**SUITE 400**
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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.

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

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# CERTIFICATE OF ANALYSIS TB11061671

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | ME-MS81 Ag ppm 1 | ME-MS81 Ba ppm 0.5 | ME-MS81 Ce ppm 0.5 | ME-MS81 Co ppm 0.5 | ME-MS81 Cr ppm 10 | ME-MS81 Cs ppm 0.01 | ME-MS81 Cu ppm 5 | ME-MS81 Dy ppm 0.05 | ME-MS81 Er ppm 0.03 | ME-MS81 Eu ppm 0.03 | ME-MS81 Ga ppm 0.1 | ME-MS81 Gd ppm 0.05 | ME-MS81 Hf ppm 0.2 | ME-MS81 Ho ppm 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I106163 | | 0.94 | <1 | 215 | 24.6 | 8.0 | 10 | 1.37 | 9 | 1.82 | 1.04 | 0.71 | 18.5 | 1.83 | 2.8 | 0.37 |
| I106164 | | 0.99 | <1 | 241 | 31.6 | 24.6 | 40 | 1.36 | 101 | 3.31 | 2.00 | 1.02 | 17.1 | 3.13 | 4.5 | 0.65 |
| J531866 | | 0.72 | <1 | 134.0 | 24.1 | 26.4 | 70 | 0.73 | 5 | 2.18 | 1.30 | 0.67 | 14.8 | 2.20 | 2.5 | 0.43 |
| J531867 | | 0.73 | <1 | 156.5 | 78.5 | 1.9 | <10 | 0.80 | 30 | 8.08 | 5.21 | 1.47 | 18.2 | 7.42 | 8.3 | 1.62 |
| J531868 | | 0.48 | <1 | 173.0 | 80.9 | 1.4 | <10 | 0.63 | <5 | 9.44 | 5.95 | 1.89 | 18.7 | 8.64 | 10.0 | 1.90 |
| J531869 | | 0.72 | <1 | 200 | 91.3 | 1.7 | <10 | 0.61 | 23 | 9.52 | 5.84 | 2.16 | 19.4 | 8.96 | 11.1 | 1.88 |
| J531870 | | 0.82 | <1 | 232 | 114.0 | 3.7 | <10 | 0.44 | 55 | 9.72 | 5.78 | 1.89 | 19.6 | 9.85 | 8.8 | 1.89 |
| J531871 | | 1.03 | <1 | 87.5 | 80.4 | 1.2 | <10 | 0.14 | 5 | 8.34 | 5.19 | 1.72 | 17.0 | 8.07 | 8.0 | 1.67 |
| J531872 | | 0.94 | <1 | 183.5 | 86.7 | 1.9 | <10 | 0.59 | <5 | 8.58 | 5.44 | 1.95 | 18.6 | 7.91 | 8.7 | 1.70 |
| J531873 | | 0.90 | <1 | 159.5 | 89.7 | 1.3 | <10 | 0.27 | 6 | 9.20 | 5.69 | 1.90 | 19.0 | 8.73 | 9.0 | 1.84 |
| J531874 | | 0.88 | <1 | 93.8 | 87.4 | 1.0 | <10 | 0.20 | 9 | 9.86 | 6.13 | 2.02 | 17.7 | 8.98 | 10.7 | 1.93 |
| J531875 | | 0.88 | <1 | 159.5 | 79.8 | 2.9 | <10 | 0.29 | <5 | 8.60 | 5.26 | 1.21 | 18.5 | 7.53 | 8.3 | 1.72 |
| J531876 | | 0.93 | <1 | 272 | 50.2 | 14.4 | 50 | 0.77 | 39 | 4.75 | 3.02 | 1.19 | 21.3 | 4.62 | 6.0 | 0.96 |
| J531877 | | 0.85 | <1 | 103.5 | 79.6 | 15.2 | <10 | 0.73 | 72 | 7.28 | 4.55 | 1.47 | 17.9 | 6.83 | 7.3 | 1.45 |
| J531878 | | 0.76 | <1 | 65.4 | 34.5 | 9.5 | <10 | 0.47 | 66 | 4.79 | 3.27 | 0.82 | 9.2 | 3.61 | 4.1 | 1.00 |
| J531879 | | 0.80 | <1 | 102.0 | 38.9 | 28.6 | 30 | 0.86 | 39 | 4.33 | 2.65 | 1.03 | 18.7 | 4.29 | 3.8 | 0.86 |
| J531880 | | 0.81 | <1 | 203 | 35.9 | 29.1 | 10 | 0.15 | 57 | 3.97 | 2.47 | 1.16 | 20.9 | 4.07 | 3.9 | 0.84 |
| J531881 | | 0.91 | <1 | 79.6 | 34.7 | 25.9 | 20 | 0.20 | 14 | 4.55 | 2.70 | 1.25 | 20.1 | 4.55 | 4.1 | 0.91 |
| J531882 | | 0.90 | <1 | 189.5 | 34.8 | 24.2 | 10 | 0.53 | 79 | 4.06 | 2.47 | 1.27 | 18.3 | 4.35 | 4.6 | 0.82 |
| J531883 | | 0.96 | <1 | 90.4 | 34.4 | 22.5 | 10 | 0.25 | 42 | 4.40 | 2.60 | 1.29 | 18.7 | 4.55 | 3.5 | 0.92 |
| J531884 | | 0.96 | <1 | 37.0 | 34.7 | 30.1 | 10 | 0.17 | <5 | 4.71 | 2.90 | 1.26 | 19.3 | 4.84 | 3.8 | 0.99 |
| J531885 | | 0.98 | <1 | 122.0 | 31.2 | 23.8 | 10 | 0.33 | 47 | 4.45 | 2.72 | 1.24 | 17.7 | 4.58 | 3.2 | 0.93 |
| J531886 | | 0.95 | <1 | 120.5 | 28.0 | 22.9 | 10 | 0.36 | 59 | 3.74 | 2.28 | 1.16 | 15.9 | 4.09 | 3.1 | 0.79 |
| J531887 | | 0.94 | <1 | 79.8 | 86.8 | 1.7 | <10 | 0.33 | <5 | 7.16 | 4.26 | 1.68 | 18.2 | 7.68 | 10.4 | 1.47 |
| J531888 | | 0.98 | <1 | 134.0 | 36.5 | 24.8 | 20 | 0.44 | 8 | 4.43 | 2.75 | 1.31 | 18.6 | 4.76 | 3.5 | 0.93 |
| J531889 | | 0.99 | <1 | 318 | 86.6 | 15.2 | 510 | 0.43 | 7 | 2.34 | 1.02 | 1.80 | 14.3 | 4.32 | 2.9 | 0.42 |
| J531890 | | 0.86 | <1 | 315 | 59.2 | 5.4 | <10 | 0.91 | <5 | 4.95 | 2.94 | 1.12 | 16.4 | 5.39 | 7.9 | 1.00 |
| J531891 | | 0.99 | <1 | 773 | 101.0 | 15.7 | 330 | 1.10 | <5 | 2.63 | 1.09 | 1.92 | 16.4 | 4.59 | 3.6 | 0.44 |
| J531892 | | 0.85 | <1 | 251 | 57.0 | 2.9 | <10 | 0.93 | <5 | 5.48 | 3.32 | 1.60 | 16.7 | 5.96 | 7.9 | 1.14 |
| J531893 | | 0.88 | <1 | 325 | 36.0 | 13.7 | 10 | 1.16 | 37 | 1.89 | 1.07 | 0.82 | 19.0 | 2.42 | 3.1 | 0.37 |
| J531894 | | 0.98 | <1 | 43.3 | 60.9 | 4.7 | <10 | 0.99 | <5 | 5.87 | 3.60 | 1.62 | 19.2 | 6.30 | 8.8 | 1.20 |
| J531895 | | 0.90 | <1 | 448 | 59.7 | 4.0 | <10 | 1.20 | 14 | 6.06 | 3.78 | 1.77 | 19.7 | 6.67 | 9.4 | 1.30 |
| J531896 | | 0.90 | <1 | 30.6 | 62.8 | 7.3 | <10 | 1.38 | 20 | 5.03 | 2.93 | 1.52 | 17.1 | 5.53 | 9.2 | 1.01 |
| J531897 | | 0.92 | <1 | 221 | 56.5 | 6.6 | <10 | 0.77 | 12 | 6.60 | 4.17 | 1.50 | 17.2 | 6.72 | 10.1 | 1.39 |
| J531898 | | 0.94 | <1 | 106.0 | 41.2 | 4.0 | 10 | 1.46 | 56 | 2.30 | 1.30 | 0.89 | 19.2 | 3.33 | 4.5 | 0.45 |
| J531899 | | 0.81 | <1 | 166.5 | 35.2 | 48.8 | 20 | 1.12 | 48 | 3.73 | 2.25 | 1.00 | 15.0 | 4.30 | 3.9 | 0.74 |

Comments: Low whole rock total confirmed by re-analysis.

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**Finalized Date: 5-MAY-2011**
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Project: STURGEON LAKE

# CERTIFICATE OF ANALYSIS TB11061671

| Sample Description | Method / Analyte / Units / LOR | ME-MS81 La ppm 0.5 | ME-MS81 Lu ppm 0.01 | ME-MS81 Mo ppm 2 | ME-MS81 Nb ppm 0.2 | ME-MS81 Nd ppm 0.1 | ME-MS81 Ni ppm 5 | ME-MS81 Pb ppm 5 | ME-MS81 Pr ppm 0.03 | ME-MS81 Rb ppm 0.2 | ME-MS81 Sm ppm 0.03 | ME-MS81 Sn ppm 1 | ME-MS81 Sr ppm 0.1 | ME-MS81 Ta ppm 0.1 | ME-MS81 Tb ppm 0.01 | ME-MS81 Th ppm 0.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I106163 | | 11.9 | 0.15 | <2 | 3.0 | 9.9 | 9 | 11 | 2.78 | 30.5 | 1.99 | 1 | 177.0 | 0.3 | 0.29 | 2.71 |
| I106164 | | 14.4 | 0.29 | <2 | 5.7 | 15.0 | 37 | 5 | 3.53 | 39.0 | 3.17 | 1 | 216 | 0.4 | 0.52 | 2.30 |
| J531866 | | 11.3 | 0.20 | 2 | 5.0 | 10.9 | 66 | 21 | 2.64 | 60.0 | 2.25 | 1 | 92.7 | 0.3 | 0.34 | 1.93 |
| J531867 | | 35.1 | 0.77 | 2 | 19.0 | 38.6 | 5 | 14 | 9.08 | 71.5 | 7.92 | 3 | 47.2 | 1.2 | 1.26 | 5.86 |
| J531868 | | 35.4 | 0.91 | 4 | 20.3 | 39.8 | 8 | 14 | 9.30 | 79.3 | 8.39 | 3 | 50.4 | 1.3 | 1.44 | 6.45 |
| J531869 | | 40.3 | 0.87 | <2 | 19.8 | 45.1 | <5 | 10 | 10.55 | 71.2 | 9.12 | 3 | 60.7 | 1.3 | 1.48 | 6.74 |
| J531870 | | 51.1 | 0.85 | 2 | 20.0 | 54.8 | 7 | 8 | 13.05 | 55.5 | 10.85 | 3 | 56.8 | 1.3 | 1.59 | 7.30 |
| J531871 | | 35.2 | 0.79 | <2 | 18.3 | 39.5 | 7 | <5 | 9.09 | 23.6 | 8.02 | 3 | 23.1 | 1.2 | 1.34 | 6.06 |
| J531872 | | 38.6 | 0.80 | 2 | 19.2 | 42.4 | 7 | 7 | 9.79 | 72.4 | 8.63 | 3 | 60.8 | 1.3 | 1.32 | 6.27 |
| J531873 | | 39.2 | 0.89 | <2 | 20.2 | 43.1 | 5 | <5 | 10.10 | 32.2 | 8.90 | 4 | 39.8 | 1.3 | 1.44 | 6.47 |
| J531874 | | 38.2 | 0.92 | 3 | 19.5 | 42.8 | 8 | <5 | 10.15 | 28.0 | 9.08 | 3 | 21.1 | 1.3 | 1.54 | 6.37 |
| J531875 | | 35.1 | 0.80 | 2 | 19.2 | 37.8 | 7 | <5 | 8.95 | 38.3 | 7.54 | 2 | 24.6 | 1.2 | 1.32 | 5.90 |
| J531876 | | 22.7 | 0.51 | <2 | 11.6 | 24.4 | 39 | 5 | 5.75 | 63.0 | 4.97 | 2 | 54.1 | 0.7 | 0.76 | 3.78 |
| J531877 | | 36.5 | 0.69 | <2 | 15.7 | 36.1 | 31 | 15 | 8.70 | 20.9 | 6.86 | 3 | 159.0 | 1.1 | 1.14 | 8.76 |
| J531878 | | 15.4 | 0.50 | 2 | 8.8 | 15.2 | 16 | 7 | 3.76 | 12.6 | 2.99 | 2 | 84.3 | 0.6 | 0.68 | 4.30 |
| J531879 | | 17.1 | 0.38 | <2 | 8.2 | 19.6 | 39 | 5 | 4.53 | 10.1 | 4.19 | 1 | 109.5 | 0.5 | 0.70 | 2.39 |
| J531880 | | 16.7 | 0.37 | <2 | 7.9 | 19.5 | 34 | <5 | 4.44 | 7.4 | 4.45 | 1 | 136.5 | 0.5 | 0.66 | 2.23 |
| J531881 | | 15.9 | 0.41 | <2 | 8.0 | 19.2 | 41 | <5 | 4.43 | 7.9 | 4.44 | 1 | 75.9 | 0.5 | 0.74 | 2.29 |
| J531882 | | 16.0 | 0.39 | <2 | 7.7 | 18.9 | 26 | 6 | 4.34 | 30.1 | 4.33 | 1 | 231 | 0.5 | 0.69 | 2.31 |
| J531883 | | 15.8 | 0.38 | <2 | 7.7 | 19.0 | 32 | 5 | 4.34 | 16.2 | 4.30 | 1 | 82.8 | 0.5 | 0.72 | 2.27 |
| J531884 | | 16.3 | 0.41 | <2 | 7.4 | 19.1 | 37 | 5 | 4.40 | 6.6 | 4.42 | 1 | 64.6 | 0.5 | 0.79 | 2.24 |
| J531885 | | 14.4 | 0.39 | <2 | 7.2 | 17.2 | 33 | <5 | 3.93 | 20.7 | 4.09 | 1 | 88.4 | 0.5 | 0.77 | 2.02 |
| J531886 | | 12.8 | 0.33 | <2 | 6.6 | 15.8 | 29 | <5 | 3.56 | 31.7 | 3.86 | 1 | 87.4 | 0.4 | 0.64 | 1.89 |
| J531887 | | 41.0 | 0.58 | 3 | 21.9 | 41.6 | 5 | 6 | 10.25 | 20.2 | 8.49 | 3 | 88.6 | 1.4 | 1.25 | 7.96 |
| J531888 | | 16.9 | 0.39 | <2 | 8.0 | 19.6 | 34 | 6 | 4.49 | 30.3 | 4.46 | 1 | 111.0 | 0.5 | 0.75 | 2.36 |
| J531889 | | 43.7 | 0.13 | <2 | 4.7 | 40.4 | 197 | 12 | 10.05 | 21.0 | 6.75 | 1 | 258 | 0.3 | 0.49 | 8.28 |
| J531890 | | 28.8 | 0.42 | <2 | 15.9 | 27.3 | 8 | 14 | 6.89 | 54.4 | 5.60 | 3 | 179.0 | 1.1 | 0.87 | 6.95 |
| J531891 | | 51.4 | 0.14 | <2 | 5.5 | 46.2 | 125 | 11 | 11.70 | 51.3 | 7.55 | 1 | 275 | 0.3 | 0.56 | 9.20 |
| J531892 | | 26.9 | 0.49 | <2 | 14.9 | 28.0 | 9 | 14 | 6.83 | 39.1 | 5.91 | 2 | 237 | 0.9 | 0.94 | 5.11 |
| J531893 | | 20.0 | 0.18 | <2 | 3.9 | 13.9 | 18 | 15 | 3.77 | 53.6 | 2.63 | 1 | 237 | 0.4 | 0.35 | 4.94 |
| J531894 | | 29.1 | 0.56 | <2 | 16.5 | 29.7 | 11 | 7 | 7.36 | 5.1 | 6.23 | 2 | 81.8 | 1.0 | 0.99 | 5.64 |
| J531895 | | 28.4 | 0.59 | <2 | 17.0 | 29.0 | 7 | 10 | 7.17 | 59.5 | 6.35 | 2 | 121.0 | 1.0 | 1.04 | 5.94 |
| J531896 | | 30.1 | 0.43 | <2 | 14.8 | 29.1 | 11 | 7 | 7.45 | 4.0 | 5.93 | 2 | 53.7 | 1.0 | 0.89 | 6.48 |
| J531897 | | 27.2 | 0.60 | <2 | 16.1 | 26.8 | 19 | 12 | 6.72 | 26.1 | 5.81 | 2 | 178.5 | 1.0 | 1.10 | 5.94 |
| J531898 | | 20.1 | 0.21 | 7 | 6.5 | 19.5 | 28 | 17 | 4.90 | 13.9 | 3.93 | 3 | 189.0 | 0.5 | 0.45 | 5.41 |
| J531899 | | 16.4 | 0.33 | <2 | 5.6 | 17.4 | 63 | 11 | 4.26 | 35.4 | 3.86 | 2 | 101.5 | 0.4 | 0.63 | 2.70 |

Comments: Low whole rock total confirmed by re-analysis.

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Project: STURGEON LAKE

# CERTIFICATE OF ANALYSIS TB11061671

| Sample Description | Method / Analyte / Units / LOR | ME-MS81 Tl ppm 0.5 | ME-MS81 Tm ppm 0.01 | ME-MS81 U ppm 0.05 | ME-MS81 V ppm 5 | ME-MS81 W ppm 1 | ME-MS81 Y ppm 0.5 | ME-MS81 Yb ppm 0.03 | ME-MS81 Zn ppm 5 | ME-MS81 Zr ppm 2 | ME-ICP06 SiO2 % 0.01 | ME-ICP06 Al2O3 % 0.01 | ME-ICP06 Fe2O3 % 0.01 | ME-ICP06 CaO % 0.01 | ME-ICP06 MgO % 0.01 | ME-ICP06 Na2O % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I106163 | | <0.5 | 0.15 | 0.75 | 42 | 1 | 10.6 | 0.96 | 24 | 100 | 62.8 | 14.45 | 4.10 | 4.61 | 1.25 | 2.14 |
| I106164 | | <0.5 | 0.29 | 0.52 | 135 | 1 | 20.9 | 1.94 | 63 | 194 | 50.9 | 15.20 | 7.83 | 6.76 | 2.48 | 2.25 |
| J531866 | | <0.5 | 0.19 | 0.89 | 105 | 2 | 12.5 | 1.35 | 597 | 116 | 60.4 | 14.10 | 10.35 | 1.97 | 6.37 | 0.20 |
| J531867 | | <0.5 | 0.74 | 1.38 | <5 | 2 | 50.8 | 5.13 | 515 | 318 | 72.1 | 11.00 | 6.53 | 0.38 | 2.55 | 0.08 |
| J531868 | | <0.5 | 0.87 | 1.49 | <5 | 4 | 57.3 | 5.93 | 146 | 381 | 74.6 | 11.55 | 4.49 | 0.26 | 1.77 | 0.14 |
| J531869 | | <0.5 | 0.86 | 1.56 | <5 | 1 | 57.2 | 5.83 | 203 | 422 | 73.5 | 11.75 | 5.99 | 1.70 | 2.74 | 0.15 |
| J531870 | | <0.5 | 0.84 | 1.58 | <5 | 2 | 57.8 | 5.72 | 219 | 333 | 74.2 | 11.45 | 5.72 | 0.94 | 2.84 | 0.11 |
| J531871 | | <0.5 | 0.76 | 1.37 | <5 | 1 | 50.1 | 5.25 | 142 | 295 | 78.3 | 10.75 | 5.78 | 0.14 | 1.54 | 0.07 |
| J531872 | | <0.5 | 0.78 | 1.45 | <5 | 3 | 52.9 | 5.39 | 153 | 323 | 73.2 | 11.20 | 5.97 | 1.80 | 2.50 | 0.20 |
| J531873 | | <0.5 | 0.86 | 1.36 | <5 | 1 | 54.1 | 5.91 | 180 | 324 | 73.8 | 11.50 | 6.70 | 1.84 | 2.45 | 0.12 |
| J531874 | | <0.5 | 0.89 | 1.60 | <5 | 2 | 57.8 | 6.02 | 150 | 403 | 77.3 | 11.30 | 6.02 | 0.12 | 1.49 | 0.11 |
| J531875 | | <0.5 | 0.78 | 1.34 | <5 | 1 | 53.0 | 5.36 | 124 | 307 | 72.0 | 10.45 | 5.47 | 0.12 | 2.37 | 0.11 |
| J531876 | | <0.5 | 0.46 | 2.00 | 116 | 2 | 29.8 | 3.20 | 174 | 255 | 58.8 | 16.90 | 9.02 | 4.14 | 4.43 | 0.52 |
| J531877 | | <0.5 | 0.67 | 1.86 | 27 | 1 | 43.1 | 4.63 | 94 | 259 | 74.3 | 11.85 | 2.48 | 1.77 | 0.78 | 1.43 |
| J531878 | | <0.5 | 0.48 | 1.31 | 12 | 2 | 30.8 | 3.26 | 13 | 176 | 85.3 | 7.03 | 1.74 | 0.35 | 0.13 | 0.81 |
| J531879 | | <0.5 | 0.36 | 0.54 | 188 | 1 | 26.0 | 2.48 | 104 | 162 | 51.7 | 14.45 | 10.60 | 2.97 | 5.87 | 4.54 |
| J531880 | | <0.5 | 0.36 | 0.54 | 223 | 1 | 25.7 | 2.36 | 115 | 158 | 51.4 | 14.20 | 10.85 | 3.78 | 5.47 | 3.81 |
| J531881 | | <0.5 | 0.39 | 0.47 | 211 | <1 | 26.9 | 2.60 | 107 | 152 | 50.0 | 14.65 | 10.90 | 5.72 | 3.85 | 0.45 |
| J531882 | | <0.5 | 0.36 | 0.43 | 186 | 1 | 24.3 | 2.45 | 98 | 190 | 54.8 | 14.00 | 7.98 | 5.18 | 3.34 | 1.19 |
| J531883 | | <0.5 | 0.38 | 0.51 | 202 | <1 | 25.6 | 2.55 | 105 | 135 | 49.9 | 14.20 | 10.20 | 6.87 | 4.56 | 0.38 |
| J531884 | | <0.5 | 0.41 | 0.50 | 224 | <1 | 27.0 | 2.63 | 138 | 143 | 49.4 | 14.05 | 11.25 | 5.54 | 6.41 | 0.25 |
| J531885 | | <0.5 | 0.39 | 0.51 | 181 | <1 | 26.8 | 2.52 | 160 | 124 | 53.5 | 13.35 | 10.20 | 3.18 | 6.72 | 0.24 |
| J531886 | | <0.5 | 0.32 | 0.46 | 176 | <1 | 21.6 | 2.14 | 107 | 126 | 45.7 | 12.15 | 9.60 | 8.32 | 6.10 | 0.20 |
| J531887 | | <0.5 | 0.59 | 1.82 | <5 | 2 | 40.1 | 3.82 | 23 | 364 | 70.8 | 11.30 | 1.76 | 3.59 | 2.47 | 0.38 |
| J531888 | | <0.5 | 0.38 | 0.35 | 196 | <1 | 26.2 | 2.48 | 115 | 125 | 53.7 | 14.40 | 9.85 | 4.51 | 4.81 | 0.31 |
| J531889 | | <0.5 | 0.15 | 1.69 | 87 | 2 | 11.7 | 0.87 | 212 | 112 | 46.0 | 10.80 | 7.26 | 9.34 | 8.25 | 0.64 |
| J531890 | | 0.5 | 0.41 | 1.63 | <5 | 3 | 27.4 | 2.75 | 23 | 261 | 75.6 | 11.25 | 1.56 | 1.70 | 0.92 | 0.95 |
| J531891 | | <0.5 | 0.16 | 1.62 | 104 | 1 | 12.8 | 0.95 | 203 | 141 | 47.8 | 12.60 | 6.91 | 7.91 | 6.31 | 0.56 |
| J531892 | | <0.5 | 0.48 | 1.14 | 13 | <1 | 30.8 | 3.24 | 30 | 307 | 70.9 | 11.15 | 2.06 | 3.48 | 1.70 | 1.17 |
| J531893 | | <0.5 | 0.17 | 0.46 | 54 | <1 | 10.2 | 1.12 | 92 | 113 | 67.3 | 15.25 | 4.52 | 1.04 | 2.40 | 1.08 |
| J531894 | | <0.5 | 0.52 | 1.23 | 17 | 2 | 33.2 | 3.53 | 77 | 345 | 71.7 | 13.05 | 4.44 | 3.12 | 1.61 | 0.54 |
| J531895 | | 0.5 | 0.56 | 1.35 | 15 | <1 | 36.3 | 3.66 | 43 | 373 | 69.5 | 13.20 | 3.34 | 3.16 | 0.74 | 0.64 |
| J531896 | | <0.5 | 0.42 | 1.42 | 6 | 3 | 27.1 | 2.89 | 66 | 324 | 74.5 | 11.85 | 2.12 | 3.98 | 1.90 | 0.44 |
| J531897 | | 0.6 | 0.61 | 1.56 | 15 | 2 | 38.8 | 3.93 | 129 | 409 | 70.3 | 11.65 | 4.88 | 2.39 | 2.24 | 0.71 |
| J531898 | | 0.5 | 0.20 | 1.29 | 67 | 1 | 11.5 | 1.34 | 71 | 167 | 75.7 | 12.20 | 4.21 | 1.06 | 0.78 | 0.95 |
| J531899 | | <0.5 | 0.32 | 0.57 | 170 | <1 | 20.8 | 2.14 | 68 | 138 | 69.0 | 12.15 | 6.43 | 2.78 | 1.47 | 0.93 |

Comments: Low whole rock total confirmed by re-analysis.

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To: **XSTRATA ZINC CANADA**
**8801 TRANS CANADA HWY**
**SUITE 400**
**SAINT-LAURENT QC H4S 1Z6**


**Finalized Date: 5-MAY-2011**
**Account: XSZNEX**

Project: STURGEON LAKE

# CERTIFICATE OF ANALYSIS TB11061671

| Sample Description | Method / Analyte / Units / LOR | ME-ICP06 K2O % 0.01 | ME-ICP06 Cr2O3 % 0.01 | ME-ICP06 TiO2 % 0.01 | ME-ICP06 MnO % 0.01 | ME-ICP06 P2O5 % 0.01 | ME-ICP06 SrO % 0.01 | ME-ICP06 BaO % 0.01 | OA-GRA05 LOI % 0.01 | TOT-ICP06 Total % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|
| I106163 | | 1.20 | <0.01 | 0.33 | 0.08 | 0.08 | 0.02 | 0.02 | 9.08 | 100.0 |
| I106164 | | 1.28 | 0.01 | 0.85 | 0.14 | 0.19 | 0.03 | 0.03 | 11.70 | 99.7 |
| J531866 | | 1.77 | 0.01 | 0.67 | 0.26 | 0.04 | 0.01 | 0.02 | 3.82 | 100.0 |
| J531867 | | 2.05 | <0.01 | 0.36 | 0.17 | 0.08 | <0.01 | 0.02 | 2.46 | 97.8 |
| J531868 | | 2.78 | <0.01 | 0.42 | 0.12 | 0.10 | <0.01 | 0.02 | 1.78 | 98.0 |
| J531869 | | 2.26 | <0.01 | 0.41 | 0.15 | 0.01 | 0.01 | 0.02 | 1.79 | 100.5 |
| J531870 | | 1.79 | <0.01 | 0.39 | 0.08 | 0.10 | 0.01 | 0.03 | 2.40 | 100.0 |
| J531871 | | 0.82 | <0.01 | 0.36 | 0.11 | <0.01 | <0.01 | 0.01 | 2.92 | 101.0 |
| J531872 | | 2.14 | <0.01 | 0.40 | 0.15 | 0.06 | 0.01 | 0.02 | 2.09 | 99.7 |
| J531873 | | 1.10 | <0.01 | 0.39 | 0.17 | <0.01 | <0.01 | 0.02 | 2.80 | 101.0 |
| J531874 | | 0.87 | <0.01 | 0.38 | 0.14 | 0.02 | <0.01 | 0.01 | 3.57 | 101.5 |
| J531875 | | 1.39 | <0.01 | 0.34 | 0.10 | 0.02 | <0.01 | 0.02 | 1.97 | 94.4 |
| J531876 | | 1.79 | 0.01 | 0.81 | 0.20 | 0.04 | 0.01 | 0.03 | 2.88 | 99.6 |
| J531877 | | 0.73 | <0.01 | 0.30 | 0.03 | 0.03 | 0.02 | 0.01 | 4.26 | 98.0 |
| J531878 | | 0.46 | <0.01 | 0.22 | 0.01 | 0.09 | 0.01 | 0.01 | 2.18 | 98.3 |
| J531879 | | 0.42 | 0.01 | 1.22 | 0.15 | 0.29 | 0.01 | 0.01 | 5.41 | 97.7 |
| J531880 | | 0.31 | <0.01 | 1.20 | 0.17 | 0.21 | 0.01 | 0.02 | 6.90 | 98.3 |
| J531881 | | 0.36 | <0.01 | 1.21 | 0.14 | 0.21 | 0.01 | 0.01 | 10.55 | 98.1 |
| J531882 | | 1.27 | <0.01 | 1.16 | 0.13 | 0.26 | 0.03 | 0.02 | 9.98 | 99.3 |
| J531883 | | 0.72 | <0.01 | 1.17 | 0.15 | 0.20 | 0.01 | 0.01 | 11.90 | 100.5 |
| J531884 | | 0.30 | <0.01 | 1.14 | 0.15 | 0.20 | 0.01 | <0.01 | 11.30 | 100.0 |
| J531885 | | 1.02 | <0.01 | 1.10 | 0.08 | 0.27 | 0.01 | 0.01 | 8.34 | 98.0 |
| J531886 | | 1.39 | <0.01 | 1.01 | 0.22 | 0.19 | 0.01 | 0.01 | 15.80 | 100.5 |
| J531887 | | 0.81 | <0.01 | 0.29 | 0.07 | 0.04 | 0.01 | 0.01 | 6.07 | 97.6 |
| J531888 | | 1.44 | <0.01 | 1.13 | 0.11 | 0.24 | 0.01 | 0.02 | 8.70 | 99.2 |
| J531889 | | 0.69 | 0.08 | 0.56 | 0.18 | 0.29 | 0.03 | 0.04 | 16.05 | 100.0 |
| J531890 | | 1.65 | <0.01 | 0.25 | 0.03 | 0.03 | 0.02 | 0.04 | 4.09 | 98.1 |
| J531891 | | 1.70 | 0.05 | 0.62 | 0.13 | 0.34 | 0.03 | 0.09 | 14.10 | 99.2 |
| J531892 | | 1.32 | <0.01 | 0.41 | 0.06 | 0.11 | 0.03 | 0.03 | 6.57 | 99.0 |
| J531893 | | 1.62 | <0.01 | 0.44 | 0.03 | 0.07 | 0.03 | 0.04 | 4.38 | 98.2 |
| J531894 | | 0.19 | <0.01 | 0.50 | 0.09 | 0.10 | 0.01 | 0.01 | 4.49 | 99.9 |
| J531895 | | 2.06 | <0.01 | 0.51 | 0.06 | 0.10 | 0.01 | 0.05 | 4.38 | 97.8 |
| J531896 | | 0.15 | <0.01 | 0.34 | 0.03 | 0.06 | 0.01 | <0.01 | 4.99 | 100.5 |
| J531897 | | 0.81 | <0.01 | 0.39 | 0.07 | 0.07 | 0.02 | 0.03 | 4.98 | 98.5 |
| J531898 | | 0.42 | <0.01 | 0.46 | 0.02 | 0.10 | 0.02 | 0.01 | 2.30 | 98.2 |
| J531899 | | 1.26 | <0.01 | 0.62 | 0.11 | 0.15 | 0.01 | 0.02 | 4.84 | 99.8 |

Comments: Low whole rock total confirmed by re-analysis.