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: 3-APR-2011**
**Account: XSZNEX**

# CERTIFICATE TB11038592

Project: STURGEON LAKE

P.O. No.:

This report is for 169 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-MAR-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 |
| BAG-01 | Bulk Master for Storage |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| Cu-AA46 | Ore grade Cu - aqua regia/AA | AAS |
| Pb-AA46 | Ore grade Pb - aqua regia/AA | AAS |
| Zn-AA46 | Ore grade Zn - aqua regia/AA | AAS |
| Cu-OG62 | Ore Grade Cu - Four Acid | VARIABLE |
| ME-OG62 | Ore Grade Elements - Four Acid | ICP-AES |
| Zn-OG62 | Ore Grade Zn - Four Acid | VARIABLE |
| Au-AA23 | Au 30g FA-AA finish | AAS |
| Ag-AA45 | Trace Ag - aqua regia/AAS | AAS |

To: **XSTRATA ZINC CANADA**
**ATTN: LUCY POTTER**
**8801 TRANS CANADA HWY**
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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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Project: STURGEON LAKE

# CERTIFICATE OF ANALYSIS TB11038592

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Cu-AA46 Cu % 0.001 | Pb-AA46 Pb % 0.001 | Zn-AA46 Zn % 0.001 | Ag-AA45 Ag ppm 0.2 | Cu-OG62 Cu % 0.001 | Zn-OG62 Zn % 0.001 | Au-AA23 Au ppm 0.005 |
|---|---|---|---|---|---|---|---|---|---|
| J529000 | | 1.69 | 0.006 | 0.003 | 0.014 | <0.2 | | | |
| J529001 | | 1.46 | 0.016 | 0.004 | 0.019 | 0.4 | | | |
| J529002 | | 1.84 | 0.007 | 0.004 | 0.020 | 0.4 | | | |
| J529003 | | 1.73 | 0.005 | 0.005 | 0.014 | 0.4 | | | |
| J529004 | | 1.78 | 0.007 | 0.004 | 0.015 | 0.5 | | | |
| J529005 | | 1.73 | 0.004 | 0.004 | 0.012 | 0.5 | | | |
| J529006 | | 1.79 | 0.006 | 0.004 | 0.012 | 0.6 | | | |
| J529007 | | 1.63 | 0.005 | 0.004 | 0.024 | 0.3 | | | |
| J529008 | | 1.59 | 0.007 | 0.002 | 0.014 | 0.3 | | | |
| J529009 | | 1.57 | 0.004 | 0.003 | 0.011 | <0.2 | | | |
| J529010 | | 1.77 | 0.006 | 0.004 | 0.010 | 0.4 | | | |
| J529011 | | 0.73 | 0.007 | <0.001 | 0.007 | <0.2 | | | |
| J529012 | | 1.54 | 0.013 | 0.004 | 0.034 | 0.3 | | | |
| J529013 | | 1.54 | 0.018 | 0.006 | 0.125 | 0.8 | | | |
| J529014 | | 1.33 | 0.004 | 0.002 | 0.020 | <0.2 | | | |
| J529015 | | 1.28 | 0.011 | 0.002 | 0.021 | 0.2 | | | |
| J529016 | | 1.16 | 0.009 | 0.001 | 0.019 | <0.2 | | | |
| J529017 | | 1.19 | 0.010 | 0.001 | 0.012 | <0.2 | | | |
| J529018 | | 0.81 | 0.012 | 0.002 | 0.005 | 0.2 | | | |
| J529019 | | 0.90 | 0.007 | 0.001 | 0.018 | <0.2 | | | |
| J529020 | | 1.31 | 0.005 | 0.001 | 0.013 | <0.2 | | | |
| J529021 | | 1.36 | 0.007 | 0.001 | 0.016 | <0.2 | | | |
| J529022 | | 1.31 | 0.008 | 0.002 | 0.026 | <0.2 | | | |
| J529023 | | 1.47 | 0.010 | 0.001 | 0.025 | <0.2 | | | |
| J529024 | | 1.42 | 0.011 | 0.001 | 0.015 | <0.2 | | | |
| J529025 | | 0.06 | 1.395 | 0.137 | 20.5 | 36.7 | 1.420 | 19.55 | 0.525 |
| J529026 | | 1.56 | 0.037 | 0.003 | 0.094 | 0.6 | | | |
| J529027 | | 1.73 | 0.034 | 0.004 | 0.094 | 0.6 | | | |
| J529028 | | 1.68 | 0.032 | 0.004 | 0.127 | 0.4 | | | |
| J529029 | | 1.78 | 0.019 | 0.005 | 0.099 | 0.6 | | | |
| J529030 | | 1.68 | 0.018 | 0.002 | 0.082 | 0.5 | | | |
| J529031 | | 1.60 | 0.008 | 0.002 | 0.037 | <0.2 | | | |
| J529032 | | 1.96 | 0.009 | 0.002 | 0.026 | <0.2 | | | |
| J529033 | | 1.84 | 0.014 | 0.001 | 0.014 | 0.2 | | | |
| J529034 | | 1.77 | 0.012 | <0.001 | 0.019 | <0.2 | | | |
| J529035 | | 1.27 | 0.008 | 0.001 | 0.016 | <0.2 | | | |
| J529036 | | 1.03 | 0.003 | 0.002 | 0.021 | <0.2 | | | |
| J529037 | | 1.56 | 0.020 | 0.002 | 0.026 | 0.4 | | | |
| J529038 | | 1.46 | 0.029 | 0.002 | 0.112 | 1.0 | | | |
| J529039 | | 1.58 | 0.025 | 0.002 | 0.100 | 0.8 | | | |

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**Finalized Date: 3-APR-2011**
**Account: XSZNEX**

Project: STURGEON LAKE

# CERTIFICATE OF ANALYSIS TB11038592

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Cu-AA46 Cu % 0.001 | Pb-AA46 Pb % 0.001 | Zn-AA46 Zn % 0.001 | Ag-AA45 Ag ppm 0.2 | Cu-OG62 Cu % 0.001 | Zn-OG62 Zn % 0.001 | Au-AA23 Au ppm 0.005 |
|---|---|---|---|---|---|---|---|---|---|
| J529040 | | 1.94 | 0.007 | <0.001 | 0.017 | <0.2 | | | |
| J529041 | | 2.05 | 0.013 | 0.002 | 0.125 | <0.2 | | | |
| J529042 | | 1.80 | 0.005 | 0.001 | 0.015 | <0.2 | | | |
| J529043 | | 1.89 | 0.004 | 0.001 | 0.015 | <0.2 | | | |
| J529044 | | 1.50 | 0.005 | 0.002 | 0.016 | <0.2 | | | |
| J529045 | | 1.46 | 0.032 | 0.004 | 0.158 | 0.6 | | | |
| J529046 | | 1.38 | 0.023 | 0.001 | 0.133 | 0.6 | | | |
| J529047 | | 1.32 | 0.026 | 0.004 | 0.182 | 0.5 | | | |
| J529048 | | 1.39 | 0.043 | 0.003 | 0.297 | 0.8 | | | |
| J529049 | | 1.41 | 0.031 | 0.004 | 0.303 | 0.8 | | | |
| J529050 | | 0.05 | 1.580 | 0.156 | 21.1 | 36.7 | 1.405 | 19.95 | NSS |
| J529051 | | 1.40 | 0.032 | 0.004 | 0.255 | 1.1 | | | |
| J529052 | | 1.37 | 0.023 | 0.003 | 0.331 | 0.6 | | | |
| J529053 | | 1.40 | 0.020 | 0.002 | 0.060 | 0.4 | | | |
| J529054 | | 1.19 | 0.010 | 0.001 | 0.012 | 0.2 | | | |
| J529055 | | 1.28 | 0.010 | 0.001 | 0.012 | <0.2 | | | |
| J529056 | | 1.34 | 0.010 | 0.001 | 0.020 | <0.2 | | | |
| J529057 | | 1.29 | 0.006 | <0.001 | 0.014 | 0.2 | | | |
| J529058 | | 1.32 | 0.012 | 0.001 | 0.018 | <0.2 | | | |
| J529059 | | 0.68 | 0.009 | 0.001 | 0.008 | <0.2 | | | |
| J529060 | | 1.32 | 0.011 | 0.001 | 0.039 | <0.2 | | | |
| J529061 | | 1.36 | 0.011 | 0.001 | 0.028 | 0.3 | | | |
| J529062 | | 1.25 | 0.010 | 0.002 | 0.023 | 0.3 | | | |
| J529063 | | 1.11 | 0.007 | 0.002 | 0.028 | 0.2 | | | |
| J529064 | | 1.31 | 0.006 | 0.002 | 0.017 | 0.2 | | | |
| J529065 | | 1.38 | 0.006 | 0.002 | 0.069 | 0.3 | | | |
| J529066 | | 1.29 | 0.004 | 0.001 | 0.018 | 0.2 | | | |
| J529067 | | 1.29 | 0.007 | 0.002 | 0.018 | 0.2 | | | |
| J529068 | | 1.29 | 0.007 | 0.002 | 0.029 | 0.3 | | | |
| J529069 | | 1.43 | 0.009 | 0.002 | 0.034 | 0.4 | | | |
| J529070 | | 1.27 | 0.004 | <0.001 | 0.020 | <0.2 | | | |
| J529071 | | 1.18 | 0.001 | 0.001 | 0.012 | <0.2 | | | |
| J529072 | | 1.36 | 0.012 | 0.003 | 0.011 | <0.2 | | | |
| J529073 | | 1.21 | 0.015 | 0.002 | 0.030 | 0.3 | | | |
| J529074 | | 1.24 | 0.014 | 0.002 | 0.037 | 0.2 | | | |
| J529075 | | 0.06 | 1.395 | 0.147 | 20.1 | 35.0 | 1.395 | 20.1 | NSS |
| J529076 | | 1.37 | 0.016 | 0.003 | 0.079 | 0.4 | | | |
| J529077 | | 1.24 | 0.007 | 0.002 | 0.045 | 0.2 | | | |
| J529078 | | 1.11 | 0.008 | 0.003 | 0.009 | <0.2 | | | |
| J529079 | | 1.29 | 0.004 | 0.002 | 0.009 | <0.2 | | | |

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**Finalized Date: 3-APR-2011**
**Account: XSZNEX**

Project: STURGEON LAKE

# CERTIFICATE OF ANALYSIS TB11038592

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Cu-AA46 Cu % 0.001 | Pb-AA46 Pb % 0.001 | Zn-AA46 Zn % 0.001 | Ag-AA45 Ag ppm 0.2 | Cu-OG62 Cu % 0.001 | Zn-OG62 Zn % 0.001 | Au-AA23 Au ppm 0.005 |
|---|---|---|---|---|---|---|---|---|---|
| J529080 | | 1.26 | 0.013 | 0.002 | 0.041 | 0.3 | | | |
| J529081 | | 1.33 | 0.017 | 0.004 | 0.046 | 0.3 | | | |
| J529082 | | 1.70 | 0.009 | 0.007 | 0.016 | <0.2 | | | |
| J529083 | | 1.78 | 0.013 | 0.003 | 0.028 | 0.2 | | | |
| J529084 | | 2.11 | 0.009 | 0.003 | 0.043 | <0.2 | | | |
| J529085 | | 1.31 | 0.006 | 0.002 | 0.013 | <0.2 | | | |
| J529086 | | 1.03 | 0.010 | 0.002 | 0.012 | <0.2 | | | |
| J529087 | | 1.16 | 0.037 | 0.004 | 0.098 | 0.8 | | | |
| J529088 | | 1.40 | 0.010 | 0.002 | 0.036 | <0.2 | | | |
| J529089 | | 1.40 | 0.041 | 0.004 | 0.204 | 0.8 | | | |
| J529090 | | 1.29 | 0.029 | 0.004 | 0.159 | 0.6 | | | |
| J529091 | | 1.43 | 0.028 | 0.004 | 0.132 | 0.5 | | | |
| J529092 | | 1.35 | 0.055 | 0.004 | 0.117 | 0.6 | | | |
| J529093 | | 1.31 | 0.012 | 0.004 | 0.022 | 0.2 | | | |
| J529094 | | 1.22 | 0.013 | 0.002 | 0.027 | 0.4 | | | |
| J529095 | | 1.03 | 0.047 | 0.004 | 0.007 | 1.1 | | | |
| J529096 | | 1.20 | 0.011 | 0.002 | 0.002 | 0.3 | | | |
| J529097 | | 1.26 | 0.005 | 0.003 | 0.002 | <0.2 | | | |
| J529098 | | 1.25 | 0.004 | 0.002 | 0.001 | 0.2 | | | |
| J529099 | | 0.73 | 0.073 | 0.004 | 0.056 | 1.8 | | | |
| J529100 | | 0.08 | 1.390 | 0.148 | 18.70 | 33.6 | 1.405 | 20.0 | 0.497 |
| J529101 | | 1.15 | 0.009 | 0.002 | 0.027 | <0.2 | | | |
| J529102 | | 1.20 | 0.003 | 0.002 | 0.003 | <0.2 | | | |
| J529103 | | 1.67 | 0.052 | 0.003 | 0.117 | 1.0 | | | |
| J529104 | | 1.73 | 0.022 | 0.004 | 0.026 | 0.8 | | | |
| J529105 | | 1.69 | 0.020 | 0.004 | 0.021 | 0.5 | | | |
| J529106 | | 0.48 | 0.024 | 0.003 | 0.009 | 0.6 | | | |
| J529107 | | 1.15 | 0.005 | 0.002 | 0.002 | 0.3 | | | |
| J529108 | | 1.78 | 0.014 | 0.002 | 0.053 | 0.8 | | | |
| J529109 | | 1.61 | 0.007 | 0.002 | 0.057 | 0.8 | | | |
| J529110 | | 1.41 | 0.005 | 0.002 | 0.017 | 0.3 | | | |
| J529111 | | 1.37 | 0.004 | 0.002 | 0.036 | 0.3 | | | |
| J529112 | | 1.44 | 0.006 | 0.002 | 0.032 | 0.4 | | | |
| J529113 | | 1.22 | 0.005 | 0.001 | 0.010 | 0.2 | | | |
| J529114 | | 1.45 | 0.008 | 0.003 | 0.014 | 0.6 | | | |
| J529115 | | 1.26 | 0.004 | <0.001 | 0.031 | 0.3 | | | |
| J529116 | | 1.26 | 0.014 | 0.001 | 0.164 | 0.6 | | | |
| J529117 | | 1.28 | 0.002 | 0.001 | 0.013 | 0.2 | | | |
| J529118 | | 1.17 | <0.001 | 0.001 | 0.004 | <0.2 | | | |
| J529119 | | 1.26 | <0.001 | 0.019 | 0.133 | 0.7 | | | |

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# CERTIFICATE OF ANALYSIS TB11038592

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Cu-AA46 Cu % 0.001 | Pb-AA46 Pb % 0.001 | Zn-AA46 Zn % 0.001 | Ag-AA45 Ag ppm 0.2 | Cu-OG62 Cu % 0.001 | Zn-OG62 Zn % 0.001 | Au-AA23 Au ppm 0.005 |
|---|---|---|---|---|---|---|---|---|---|
| J529120 | | 1.48 | 0.006 | 0.034 | 0.438 | 2.3 | | | |
| J529121 | | 1.48 | 0.020 | 0.009 | 0.203 | 2.4 | | | |
| J529122 | | 1.33 | 0.012 | 0.012 | 1.355 | 3.1 | | 1.315 | 0.041 |
| J529123 | | 1.33 | 0.008 | 0.006 | 0.913 | 1.6 | | | |
| J529124 | | 1.32 | 0.004 | 0.007 | 0.292 | 0.8 | | | |
| J529125 | | 0.08 | 1.370 | 0.145 | 20.0 | 37.7 | 1.410 | 20.2 | 0.455 |
| J529126 | | 1.23 | 0.004 | 0.002 | 0.072 | 0.2 | | | |
| J529127 | | 1.36 | 0.004 | 0.003 | 0.230 | 0.7 | | | |
| J529128 | | 1.23 | 0.002 | 0.002 | 0.499 | 0.3 | | | |
| J529129 | | 1.38 | 0.002 | 0.002 | 0.215 | 0.4 | | | |
| J529131 | | 2.05 | 0.002 | 0.002 | 0.262 | 0.4 | | | |
| J529132 | | 1.78 | 0.001 | 0.003 | 0.078 | 0.3 | | | |
| J529133 | | 1.76 | 0.003 | 0.001 | 0.159 | 0.4 | | | |
| J529134 | | 1.99 | 0.004 | 0.002 | 0.167 | 0.3 | | | |
| J529135 | | 1.46 | 0.003 | 0.001 | 0.177 | 0.2 | | | |
| J529136 | | 2.16 | 0.002 | 0.001 | 0.165 | 0.3 | | | |
| J529137 | | 2.12 | 0.003 | 0.001 | 0.221 | 0.3 | | | |
| J529138 | | 1.61 | 0.001 | 0.002 | 0.037 | <0.2 | | | |
| J529139 | | 1.31 | 0.015 | 0.001 | 0.540 | 0.4 | | | |
| J529140 | | 1.23 | 0.009 | 0.002 | 1.475 | 0.4 | | 1.530 | 0.016 |
| J529141 | | 1.29 | 0.006 | 0.002 | 0.330 | 0.5 | | | |
| J529142 | | 1.23 | 0.006 | 0.001 | 0.475 | 0.4 | | | |
| J529143 | | 0.95 | 0.006 | <0.001 | 0.015 | <0.2 | | | |
| J529144 | | 1.42 | 0.003 | 0.002 | 0.036 | 0.6 | | | |
| J529145 | | 1.41 | 0.003 | 0.002 | 0.017 | 0.2 | | | |
| J529146 | | 1.32 | 0.005 | <0.001 | 0.041 | 0.3 | | | |
| J529147 | | 1.34 | <0.001 | 0.001 | 0.008 | 0.6 | | | |
| J529148 | | 1.33 | <0.001 | 0.001 | 0.008 | 0.2 | | | |
| J529149 | | 1.58 | 0.018 | 0.002 | 0.010 | 1.0 | | | |
| J529150 | | 0.05 | 1.445 | 0.146 | 19.80 | 34.6 | 1.415 | 19.95 | 0.518 |
| J529151 | | 1.44 | 0.043 | 0.002 | 0.036 | 1.7 | | | |
| J529152 | | 1.37 | 0.002 | 0.001 | 0.017 | 0.5 | | | |
| J529153 | | 1.43 | 0.001 | 0.001 | 0.020 | 0.3 | | | |
| J529154 | | 1.52 | 0.025 | 0.001 | 0.134 | 1.3 | | | |
| J529155 | | 1.70 | 0.244 | 0.011 | 1.570 | 5.6 | | 1.590 | 0.067 |
| J529156 | | 1.72 | 0.214 | 0.002 | 1.530 | 8.0 | | 1.500 | 0.092 |
| J529157 | | 1.48 | 0.125 | 0.001 | 0.438 | 3.9 | | | |
| J529158 | | 1.34 | 0.001 | <0.001 | 0.010 | <0.2 | | | |
| J529159 | | 1.33 | 0.003 | <0.001 | 0.015 | <0.2 | | | |
| J529160 | | 1.01 | 0.037 | 0.003 | 0.015 | 2.2 | | | |

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|---|---|---|---|---|---|---|---|---|---|
| J529161 | | 1.18 | 0.245 | 0.002 | 0.024 | 5.9 | | | |
| J529162 | | 1.40 | 0.015 | 0.001 | 0.013 | 0.9 | | | |
| J529163 | | 1.41 | 0.003 | 0.002 | 0.007 | 0.7 | | | |
| J529164 | | 1.41 | 0.001 | 0.001 | 0.009 | 0.6 | | | |
| J529165 | | 1.41 | 0.001 | 0.002 | 0.019 | 0.4 | | | |
| J529166 | | 1.40 | 0.001 | 0.002 | 0.020 | 0.6 | | | |
| J529167 | | 1.37 | 0.008 | 0.003 | 0.033 | 0.4 | | | |
| J529168 | | 1.36 | 0.006 | 0.003 | 0.036 | 0.5 | | | |
| J529169 | | 1.34 | 0.004 | 0.005 | 0.031 | 0.5 | | | |

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# CERTIFICATE OF ANALYSIS TB11038592

| Method | CERTIFICATE COMMENTS |
|---|---|
| ALL METHODS | NSS is non-sufficient sample. |