



Environmental Division

ANALYTICAL REPORT

ZINIFEX CANADA INC
ATTN: AARON MACDONELL
401 - 1113 JADE COURT
THUNDER BAY ON P7B 6M7

Reported On: 17-APR-08 04:23 PM
Revision: 1

Lab Work Order #: L618744

Date Received: 12-APR-08

Project P.O. #:
Job Reference:
Legal Site Desc:
CofC Numbers: 260886

Other Information:

Comments:

CHARLES LEBLANC
General Manager, Edmonton

For any questions about this report please contact your Account Manager:

ERIN BEAUDIN

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd. (formerly ETL Chemspec Analytical Ltd.)
Part of the **ALS Laboratory Group**

9936-67 Avenue, Edmonton, AB T6E 0P5
Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com
A Campbell Brothers Limited Company

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L618744-1	PRE-DRILL WQ-SNDLK								
Sampled By:	NOT PROVIDED								
Matrix:	WATER								
	Aluminum (Al)-Total	0.01		0.01	mg/L		15-APR-08	MSP	R652190
	Antimony (Sb)-Total	0.0012		0.0004	mg/L		15-APR-08	MSP	R652190
	Arsenic (As)-Total	<0.0004		0.0004	mg/L		15-APR-08	MSP	R652190
	Barium (Ba)-Total	0.006		0.003	mg/L		15-APR-08	MSP	R652190
	Beryllium (Be)-Total	<0.002		0.002	mg/L		15-APR-08	MSP	R652190
	Cadmium (Cd)-Total	<0.001		0.001	mg/L		15-APR-08	MSP	R652190
	Chromium (Cr)-Total	<0.005		0.005	mg/L		15-APR-08	MSP	R652190
	Cobalt (Co)-Total	<0.002		0.002	mg/L		15-APR-08	MSP	R652190
	Copper (Cu)-Total	0.004		0.001	mg/L		15-APR-08	MSP	R652190
	Iron (Fe)-Total	0.064		0.005	mg/L		15-APR-08	BOC	R651774
	Lead (Pb)-Total	<0.005		0.005	mg/L		15-APR-08	MSP	R652190
	Lithium (Li)-Total	<0.01		0.01	mg/L		15-APR-08	MSP	R652190
	Manganese (Mn)-Total	0.003		0.001	mg/L		15-APR-08	BOC	R651774
	Mercury (Hg)-Total	<0.0002		0.0002	mg/L		15-APR-08	MSP	R652190
	Molybdenum (Mo)-Total	<0.005		0.005	mg/L		15-APR-08	BOC	R651774
	Nickel (Ni)-Total	<0.002		0.002	mg/L		15-APR-08	MSP	R652190
	Selenium (Se)-Total	0.0007		0.0004	mg/L		15-APR-08	MSP	R652190
	Strontium (Sr)-Total	0.014		0.002	mg/L		15-APR-08	MSP	R652190
	Thallium (Tl)-Total	<0.05		0.05	mg/L		15-APR-08	MSP	R652190
	Tin (Sn)-Total	<0.05		0.05	mg/L		15-APR-08	MSP	R652190
	Titanium (Ti)-Total	<0.001		0.001	mg/L		15-APR-08	MSP	R652190
	Total Suspended Solids	4		3	mg/L		15-APR-08	SVG	R651845
	Uranium (U)-Total	<0.05		0.05	mg/L		15-APR-08	MSP	R652190
	Vanadium (V)-Total	<0.001		0.001	mg/L		15-APR-08	BOC	R651774
	Zinc (Zn)-Total	0.015	RAMB	0.001	mg/L		15-APR-08	MSP	R652190
pH and Conductivity									
	pH	7.3		0.1	pH		15-APR-08	CLTT	R651843
	Conductivity (EC)	76.0		0.2	uS/cm		15-APR-08	CLTT	R651843
* Refer to Referenced Information for Qualifiers (if any) and Methodology.									

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
RAMB	Result Adjusted For Method Blank

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
AL-TOT-ED	Water	Aluminum (Al)-Total	EPA3015	EPA 6020
AS-TOT-HYD-ED	Water	Arsenic (As)-Total (Hydride)	EPA3015	EPA 6020
BA-TOT-ED	Water	Barium (Ba)-Total	EPA3015	EPA 6020
BE-TOT-ED	Water	Beryllium (Be)-Total	EPA3015	EPA 6020
CD-TOT-ED	Water	Cadmium (Cd)-Total	EPA3015	EPA 6020
CO-TOT-ED	Water	Cobalt (Co)-Total	EPA3015	EPA 6020
CR-TOT-ED	Water	Chromium (Cr)-Total	EPA3015	EPA 6020
CU-TOT-ED	Water	Copper (Cu)-Total	EPA3015	EPA 6020
FE-TOT-ED	Water	Iron (Fe)-Total	EPA3015	EPA 200.7
HG-TOT-HYD-ED	Water	Mercury (Hg)-Total (CVAA)	EPA3015	EPA 6020
LI-TOT-ED	Water	Lithium (Li)-Total	EPA3015	EPA 6020
MN-TOT-ED	Water	Manganese (Mn)-Total	EPA3015	EPA 200.7
MO-TOT-ED	Water	Molybdenum (Mo)-Total	EPA3015	EPA 200.7
NI-TOT-ED	Water	Nickel (Ni)-Total	EPA3015	EPA 6020
PB-TOT-ED	Water	Lead (Pb)-Total	EPA3015	EPA 6020
PH/EC-ED	Water	pH and Conductivity		APHA 4500-H, 2510
SB-TOT-HYD-ED	Water	Antimony (Sb)-Total (Hydride)	EPA3015	EPA 6020
SE-TOT-HYD-ED	Water	Selenium (Se)-Total (Hydride)	EPA3015	EPA 6020
SN-TOT-ED	Water	Tin (Sn)-Total	EPA3015	EPA 6020
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids		APHA 2540 D-Gravimetric
SR-TOT-ED	Water	Strontium (Sr)-Total	EPA3015	EPA 6020
TI-TOT-ED	Water	Titanium (Ti)-Total	EPA3015	EPA 6020
TL-TOT-ED	Water	Thallium (Tl)-Total	EPA3015	EPA 6020
U-TOT-ED	Water	Uranium (U)-Total	EPA3015	EPA 6020
V-TOT-ED	Water	Vanadium (V)-Total	EPA3015	EPA 200.7
ZN-TOT-ED	Water	Zinc (Zn)-Total	EPA3015	EPA 6020

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

260886

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading *D.L.*

mg/kg (units) - unit of concentration based on mass, parts per million.

mg/L (units) - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

ANALYTICAL REPORT

ZINIFEX CANADA INC
ATTN: TRISH TOOLE
SUITE 200, 1159 ALLOY DRIVE
THUNDER BAY ON P7B 6M7

Reported On: 16-JUN-08 04:23 PM

Lab Work Order #: L640134

Date Received: 10-JUN-08

Project P.O. #: 08-0256
Job Reference: HIGH LAKE
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:

CHARLES LEBLANC
General Manager, Edmonton

For any questions about this report please contact your Account Manager:

JENNIFER MCLAUGHLIN

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L640134-1									
POST DRILL SAND LAKE									
Sampled By: NV on 05-JUN-08 @ 11:00									
Matrix: WATER									
Total Metals									
Total Major Metals									
Calcium (Ca)		2.7		0.5	mg/L		12-JUN-08	EOC	R679304
Potassium (K)		0.5		0.1	mg/L		12-JUN-08	EOC	R679304
Magnesium (Mg)		0.9		0.1	mg/L		12-JUN-08	EOC	R679304
Sodium (Na)		1		1	mg/L		12-JUN-08	EOC	R679304
Iron (Fe)		0.043		0.005	mg/L		12-JUN-08	EOC	R679304
Manganese (Mn)		0.003		0.001	mg/L		12-JUN-08	EOC	R679304
Total Trace Metals									
Silver (Ag)		<0.005		0.005	mg/L		14-JUN-08	QLI	R680725
Aluminum (Al)		0.01		0.01	mg/L		14-JUN-08	QLI	R680725
Boron (B)		<0.05		0.05	mg/L		14-JUN-08	QLI	R680725
Barium (Ba)		0.007		0.003	mg/L		14-JUN-08	QLI	R680725
Beryllium (Be)		<0.002		0.002	mg/L		14-JUN-08	QLI	R680725
Cadmium (Cd)		<0.001		0.001	mg/L		14-JUN-08	QLI	R680725
Cobalt (Co)		<0.002		0.002	mg/L		14-JUN-08	QLI	R680725
Chromium (Cr)		<0.005		0.005	mg/L		14-JUN-08	QLI	R680725
Copper (Cu)		0.003		0.001	mg/L		14-JUN-08	QLI	R680725
Molybdenum (Mo)		<0.005		0.005	mg/L		14-JUN-08	QLI	R680725
Nickel (Ni)		<0.002		0.002	mg/L		14-JUN-08	QLI	R680725
Lead (Pb)		<0.005		0.005	mg/L		14-JUN-08	QLI	R680725
Tin (Sn)		<0.05		0.05	mg/L		14-JUN-08	QLI	R680725
Strontium (Sr)		0.005		0.002	mg/L		14-JUN-08	QLI	R680725
Titanium (Ti)		<0.001		0.001	mg/L		14-JUN-08	QLI	R680725
Thallium (Tl)		<0.05		0.05	mg/L		14-JUN-08	QLI	R680725
Vanadium (V)		<0.001		0.001	mg/L		14-JUN-08	QLI	R680725
Zinc (Zn)		0.098		0.001	mg/L		14-JUN-08	QLI	R680725
Antimony (Sb)-Total		0.0010		0.0004	mg/L		14-JUN-08	QLI	R680725
Arsenic (As)-Total		<0.0004		0.0004	mg/L		14-JUN-08	QLI	R680725
Conductivity (EC)		34.0		0.2	uS/cm		12-JUN-08	CLTT	R678996
Lithium (Li)-Total		<0.01		0.01	mg/L		14-JUN-08	QLI	R680725
Mercury (Hg)-Total		<0.0002		0.0002	mg/L		14-JUN-08	QLI	R680725
Selenium (Se)-Total		<0.0004		0.0004	mg/L		14-JUN-08	QLI	R680725
Total Suspended Solids		<3		3	mg/L		13-JUN-08	SVG	R679734
Uranium (U)-Total		<0.05		0.05	mg/L		14-JUN-08	QLI	R680725
pH		7.0		0.1	pH		12-JUN-08	CLTT	R678996
* Refer to Referenced Information for Qualifiers (if any) and Methodology.									

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
AS-TOT-HYD-ED	Water	Arsenic (As)-Total (Hydride)	EPA3015	EPA 6020
EC-ED	Water	Conductivity (EC)		APHA 2510 B-electrode
HG-TOT-HYD-ED	Water	Mercury (Hg)-Total (CVAA)	EPA3015	EPA 6020
LI-TOT-ED	Water	Lithium (Li)-Total	EPA3015	EPA 6020
MET1-TOT-ED	Water	Total Trace Metals	EPA3015	EPA 6020
MET2-TOT-ED	Water	Total Major Metals	EPA3015	EPA 200.7
PH-ED	Water	pH		APHA 4500 H-Electrode
SB-TOT-HYD-ED	Water	Antimony (Sb)-Total (Hydride)	EPA3015	EPA 6020
SE-TOT-HYD-ED	Water	Selenium (Se)-Total (Hydride)	EPA3015	EPA 6020
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids		APHA 2540 D-Gravimetric
U-TOT-ED	Water	Uranium (U)-Total	EPA3015	EPA 6020

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Environmental Division

ANALYTICAL REPORT

ZINIFEX CANADA INC

ATTN: JASON RICKARD - TRISH TOOLE

SUITE 200, 1159 ALLOY DRIVE

THUNDER BAY ON P7B 6M8

Reported On: 22-MAY-08 04:05 PM

Lab Work Order #: L630102

Date Received: 15-MAY-08

Project P.O. #: 08-0256

Job Reference: ZINIFEX HIGH LAKE PROJECT

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

CHARLES LEBLANC
General Manager, Edmonton

For any questions about this report please contact your Account Manager:

JENNIFER MCLAUGHLIN

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AS-TOT-HYD-ED	Water	Arsenic (As)-Total (Hydride)	EPA3015	EPA 6020
BA-TOT-ED	Water	Barium (Ba)-Total	EPA3015	EPA 6020
BE-TOT-ED	Water	Beryllium (Be)-Total	EPA3015	EPA 6020
CD-TOT-ED	Water	Cadmium (Cd)-Total	EPA3015	EPA 6020
CO-TOT-ED	Water	Cobalt (Co)-Total	EPA3015	EPA 6020
CR-TOT-ED	Water	Chromium (Cr)-Total	EPA3015	EPA 6020
CU-TOT-ED	Water	Copper (Cu)-Total	EPA3015	EPA 6020
FE-TOT-ED	Water	Iron (Fe)-Total	EPA3015	EPA 200.7
HG-TOT-HYD-ED	Water	Mercury (Hg)-Total (CVAA)	EPA3015	EPA 6020
LI-TOT-ED	Water	Lithium (Li)-Total	EPA3015	EPA 6020
MN-TOT-ED	Water	Manganese (Mn)-Total	EPA3015	EPA 6020
MO-TOT-ED	Water	Molybdenum (Mo)-Total	EPA3015	EPA 6020
NI-TOT-ED	Water	Nickel (Ni)-Total	EPA3015	EPA 6020
PB-TOT-ED	Water	Lead (Pb)-Total	EPA3015	EPA 6020
PH/EC-ED	Water	pH and Conductivity		APHA 4500-H, 2510
SB-TOT-HYD-ED	Water	Antimony (Sb)-Total (Hydride)	EPA3015	EPA 6020
SE-TOT-HYD-ED	Water	Selenium (Se)-Total (Hydride)	EPA3015	EPA 6020
SN-TOT-ED	Water	Tin (Sn)-Total	EPA3015	EPA 6020
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids		APHA 2540 D-Gravimetric
SR-TOT-ED	Water	Strontium (Sr)-Total	EPA3015	EPA 6020
TI-TOT-ED	Water	Titanium (Ti)-Total	EPA3015	EPA 6020
TL-TOT-ED	Water	Thallium (Tl)-Total	EPA3015	EPA 6020
U-TOT-ED	Water	Uranium (U)-Total	EPA3015	EPA 6020
V-TOT-ED	Water	Vanadium (V)-Total	EPA3015	EPA 6020
ZN-TOT-ED	Water	Zinc (Zn)-Total	EPA3015	EPA 6020

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N/A - Result not available. Refer to qualifier code and definition for explanation.

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Environmental Division

ANALYTICAL REPORT

ZINIFEX CANADA INC
ATTN: AARON MACDONELL
401 - 1113 JADE COURT
THUNDER BAY ON P7B 6M7

Reported On: 24-APR-08 04:31 PM

Lab Work Order #: L620391

Date Received: 17-APR-08

Project P.O. #: 08-0256
Job Reference:
Legal Site Desc:
CofC Numbers: 260885

Other Information:

Comments:

CHARLES LEBLANC
General Manager, Edmonton

For any questions about this report please contact your Account Manager:

ERIN BEAUDIN

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A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L620391-1								
PRE-DRILL-WQCEDLK								
Sampled By: TT on 13-APR-08 @ 11:00								
Matrix: WATER								
Aluminum (Al)-Total	0.05		0.01	mg/L		22-APR-08	CVM	R654412
Antimony (Sb)-Total	0.0009		0.0004	mg/L		22-APR-08	CVM	R654412
Arsenic (As)-Total	<0.0004		0.0004	mg/L		22-APR-08	CVM	R654412
Barium (Ba)-Total	0.014		0.003	mg/L		22-APR-08	CVM	R654412
Beryllium (Be)-Total	<0.002		0.002	mg/L		22-APR-08	CVM	R654412
Cadmium (Cd)-Total	<0.001		0.001	mg/L		22-APR-08	CVM	R654412
Chromium (Cr)-Total	<0.005		0.005	mg/L		22-APR-08	CVM	R654412
Cobalt (Co)-Total	<0.002		0.002	mg/L		22-APR-08	CVM	R654412
Copper (Cu)-Total	0.012		0.001	mg/L		22-APR-08	CVM	R654412
Iron (Fe)-Total	0.172		0.005	mg/L		22-APR-08	BOC	R654482
Lead (Pb)-Total	<0.005		0.005	mg/L		22-APR-08	CVM	R654412
Lithium (Li)-Total	<0.01		0.01	mg/L		22-APR-08	CVM	R654412
Manganese (Mn)-Total	0.014		0.001	mg/L		22-APR-08	BOC	R654482
Mercury (Hg)-Total	0.0002		0.0002	mg/L		22-APR-08	CVM	R654412
Molybdenum (Mo)-Total	0.009		0.005	mg/L		22-APR-08	BOC	R654482
Nickel (Ni)-Total	0.006		0.002	mg/L		22-APR-08	CVM	R654412
Selenium (Se)-Total	0.0005		0.0004	mg/L		22-APR-08	CVM	R654412
Strontium (Sr)-Total	0.027		0.002	mg/L		22-APR-08	CVM	R654412
Thallium (Tl)-Total	<0.05		0.05	mg/L		22-APR-08	CVM	R654412
Tin (Sn)-Total	<0.05		0.05	mg/L		22-APR-08	CVM	R654412
Titanium (Ti)-Total	<0.001		0.001	mg/L		22-APR-08	CVM	R654412
Total Suspended Solids	<3		3	mg/L		22-APR-08	SVG	R654340
Uranium (U)-Total	<0.05		0.05	mg/L		22-APR-08	CVM	R654412
Vanadium (V)-Total	<0.001		0.001	mg/L		22-APR-08	BOC	R654482
Zinc (Zn)-Total	0.060		0.001	mg/L		22-APR-08	CVM	R654412
pH and Conductivity								
pH	7.2		0.1	pH		21-APR-08	CLTT	R653824
Conductivity (EC)	168		0.2	uS/cm		21-APR-08	CLTT	R653824
* Refer to Referenced Information for Qualifiers (if any) and Methodology.								

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
AL-TOT-ED	Water	Aluminum (Al)-Total	EPA3015	EPA 6020
AS-TOT-HYD-ED	Water	Arsenic (As)-Total (Hydride)	EPA3015	EPA 6020
BA-TOT-ED	Water	Barium (Ba)-Total	EPA3015	EPA 6020
BE-TOT-ED	Water	Beryllium (Be)-Total	EPA3015	EPA 6020
CD-TOT-ED	Water	Cadmium (Cd)-Total	EPA3015	EPA 6020
CO-TOT-ED	Water	Cobalt (Co)-Total	EPA3015	EPA 6020
CR-TOT-ED	Water	Chromium (Cr)-Total	EPA3015	EPA 6020
CU-TOT-ED	Water	Copper (Cu)-Total	EPA3015	EPA 6020
FE-TOT-ED	Water	Iron (Fe)-Total	EPA3015	EPA 200.7
HG-TOT-HYD-ED	Water	Mercury (Hg)-Total (CVAA)	EPA3015	EPA 6020
LI-TOT-ED	Water	Lithium (Li)-Total	EPA3015	EPA 6020
MN-TOT-ED	Water	Manganese (Mn)-Total	EPA3015	EPA 200.7
MO-TOT-ED	Water	Molybdenum (Mo)-Total	EPA3015	EPA 200.7
NI-TOT-ED	Water	Nickel (Ni)-Total	EPA3015	EPA 6020
PB-TOT-ED	Water	Lead (Pb)-Total	EPA3015	EPA 6020
PH/EC-ED	Water	pH and Conductivity		APHA 4500-H, 2510
SB-TOT-HYD-ED	Water	Antimony (Sb)-Total (Hydride)	EPA3015	EPA 6020
SE-TOT-HYD-ED	Water	Selenium (Se)-Total (Hydride)	EPA3015	EPA 6020
SN-TOT-ED	Water	Tin (Sn)-Total	EPA3015	EPA 6020
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids		APHA 2540 D-Gravimetric
SR-TOT-ED	Water	Strontium (Sr)-Total	EPA3015	EPA 6020
TI-TOT-ED	Water	Titanium (Ti)-Total	EPA3015	EPA 6020
TL-TOT-ED	Water	Thallium (Tl)-Total	EPA3015	EPA 6020
U-TOT-ED	Water	Uranium (U)-Total	EPA3015	EPA 6020
V-TOT-ED	Water	Vanadium (V)-Total	EPA3015	EPA 200.7
ZN-TOT-ED	Water	Zinc (Zn)-Total	EPA3015	EPA 6020

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

260885

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading *D.L.*

mg/kg (units) - unit of concentration based on mass, parts per million.

mg/L (units) - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

ANALYTICAL REPORT

ZINIFEX CANADA INC

ATTN: TRISH TOOLE

SUITE 200 1109 ALLOY DRI

THUNDER BAY ON P7B 6M8

Reported On: 28-MAY-08 08:37 AM

Lab Work Order #: **L631210**

Date Received: **20-MAY-08**

Project P.O. #:

Job Reference:

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

CHARLES LEBLANC
General Manager, Edmonton

For any questions about this report please contact your Account Manager:

JENNIFER MCLAUGHLIN

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd. (formerly ETL Chemspec Analytical Ltd.)

Part of the **ALS Laboratory Group**

9936-67 Avenue, Edmonton, AB T6E 0P5

Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com

A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L631210-1 POSTDRILL HLZ-08-225 Sampled By: NATALIE VIBERT on 18-MAY-08 @ 11:30 Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	13.0		0.5	mg/L		24-MAY-08	EOC	R670442
Potassium (K)	2.0		0.1	mg/L		24-MAY-08	EOC	R670442
Magnesium (Mg)	6.2		0.1	mg/L		24-MAY-08	EOC	R670442
Sodium (Na)	3		1	mg/L		24-MAY-08	EOC	R670442
Iron (Fe)	0.041		0.005	mg/L		24-MAY-08	EOC	R670442
Manganese (Mn)	0.009		0.001	mg/L		24-MAY-08	EOC	R670442
Total Trace Metals								
Silver (Ag)	<0.005		0.005	mg/L		25-MAY-08	SYF	R670540
Aluminum (Al)	0.04		0.01	mg/L		25-MAY-08	SYF	R670540
Boron (B)	<0.05		0.05	mg/L		25-MAY-08	SYF	R670540
Barium (Ba)	0.009		0.003	mg/L		25-MAY-08	SYF	R670540
Beryllium (Be)	<0.002		0.002	mg/L		25-MAY-08	SYF	R670540
Cadmium (Cd)	<0.001		0.001	mg/L		25-MAY-08	SYF	R670540
Cobalt (Co)	<0.002		0.002	mg/L		25-MAY-08	SYF	R670540
Chromium (Cr)	<0.005		0.005	mg/L		25-MAY-08	SYF	R670540
Copper (Cu)	0.011		0.001	mg/L		25-MAY-08	SYF	R670540
Molybdenum (Mo)	<0.005		0.005	mg/L		25-MAY-08	SYF	R670540
Nickel (Ni)	0.006		0.002	mg/L		25-MAY-08	SYF	R670540
Lead (Pb)	<0.005		0.005	mg/L		25-MAY-08	SYF	R670540
Tin (Sn)	<0.05		0.05	mg/L		25-MAY-08	SYF	R670540
Strontium (Sr)	0.028		0.002	mg/L		25-MAY-08	SYF	R670540
Titanium (Ti)	<0.001		0.001	mg/L		25-MAY-08	SYF	R670540
Thallium (Tl)	<0.05		0.05	mg/L		25-MAY-08	SYF	R670540
Vanadium (V)	<0.001		0.001	mg/L		25-MAY-08	SYF	R670540
Zinc (Zn)	0.036		0.001	mg/L		25-MAY-08	SYF	R670540
Antimony (Sb)-Total	0.0010		0.0004	mg/L		25-MAY-08	SYF	R670540
Conductivity (EC)	165		0.2	uS/cm		22-MAY-08	CLTT	R669464
Lithium (Li)-Total	<0.01		0.01	mg/L		25-MAY-08	SYF	R670540
Mercury (Hg)-Total	<0.0002		0.0002	mg/L		25-MAY-08	SYF	R670540
Selenium (Se)-Total	<0.0004		0.0004	mg/L		25-MAY-08	SYF	R670540
Total Suspended Solids	<3		3	mg/L		23-MAY-08	SVG	R670067
Uranium (U)-Total	<0.05		0.05	mg/L		25-MAY-08	SYF	R670540
pH	7.3		0.1	pH		22-MAY-08	CLTT	R669464
L631210-2 POSTDRILL HLZ-08-227 Sampled By: NATALIE VIBERT on 18-MAY-08 @ 12:00 Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	8.4		0.5	mg/L		26-MAY-08	BOC	R671046
Potassium (K)	1.6		0.1	mg/L		26-MAY-08	BOC	R671046
Magnesium (Mg)	2.4		0.1	mg/L		26-MAY-08	BOC	R671046
Sodium (Na)	2		1	mg/L		26-MAY-08	BOC	R671046
Iron (Fe)	0.032		0.005	mg/L		26-MAY-08	BOC	R671046
Total Trace Metals								
Silver (Ag)	<0.005		0.005	mg/L		26-MAY-08	MSP	R671257
Aluminum (Al)	0.03		0.01	mg/L		26-MAY-08	MSP	R671257
Boron (B)	<0.05		0.05	mg/L		26-MAY-08	MSP	R671257
Barium (Ba)	0.006		0.003	mg/L		26-MAY-08	MSP	R671257

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L631210-2 POSTDRILL HLZ-08-227 Sampled By: NATALIE VIBERT on 18-MAY-08 @ 12:00 Matrix: WATER								
Total Metals								
Total Trace Metals								
Beryllium (Be)	<0.002		0.002	mg/L		26-MAY-08	MSP	R671257
Cadmium (Cd)	<0.001		0.001	mg/L		26-MAY-08	MSP	R671257
Cobalt (Co)	<0.002		0.002	mg/L		26-MAY-08	MSP	R671257
Chromium (Cr)	0.006		0.005	mg/L		26-MAY-08	MSP	R671257
Copper (Cu)	0.004		0.001	mg/L		26-MAY-08	MSP	R671257
Molybdenum (Mo)	<0.005		0.005	mg/L		26-MAY-08	MSP	R671257
Nickel (Ni)	<0.002		0.002	mg/L		26-MAY-08	MSP	R671257
Lead (Pb)	<0.005		0.005	mg/L		26-MAY-08	MSP	R671257
Tin (Sn)	<0.05		0.05	mg/L		26-MAY-08	MSP	R671257
Strontium (Sr)	0.018		0.002	mg/L		26-MAY-08	MSP	R671257
Titanium (Ti)	<0.001		0.001	mg/L		26-MAY-08	MSP	R671257
Thallium (Tl)	<0.05		0.05	mg/L		26-MAY-08	MSP	R671257
Vanadium (V)	<0.001		0.001	mg/L		26-MAY-08	MSP	R671257
Zinc (Zn)	0.026		0.001	mg/L		26-MAY-08	MSP	R671257
Conductivity (EC)	81.1		0.2	uS/cm		22-MAY-08	CLTT	R669464
Total Suspended Solids	<3		3	mg/L		23-MAY-08	SVG	R670067
pH	7.3		0.1	pH		22-MAY-08	CLTT	R669464
L631210-3 GARTNER LEE PROJECT 71058 MAY 2008 Sampled By: CLIENT Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	8.2		0.5	mg/L		26-MAY-08	BOC	R671046
Potassium (K)	0.9		0.1	mg/L		26-MAY-08	BOC	R671046
Magnesium (Mg)	2.0		0.1	mg/L		26-MAY-08	BOC	R671046
Sodium (Na)	2		1	mg/L		26-MAY-08	BOC	R671046
Iron (Fe)	3.09		0.005	mg/L		26-MAY-08	BOC	R671046
Manganese (Mn)	0.042		0.001	mg/L		26-MAY-08	BOC	R671046
Total Trace Metals								
Silver (Ag)	<0.005		0.005	mg/L		26-MAY-08	MSP	R671257
Aluminum (Al)	2.53		0.01	mg/L		26-MAY-08	MSP	R671257
Boron (B)	<0.05		0.05	mg/L		26-MAY-08	MSP	R671257
Barium (Ba)	0.065		0.003	mg/L		26-MAY-08	MSP	R671257
Beryllium (Be)	<0.002		0.002	mg/L		26-MAY-08	MSP	R671257
Cadmium (Cd)	<0.001		0.001	mg/L		26-MAY-08	MSP	R671257
Cobalt (Co)	<0.002		0.002	mg/L		26-MAY-08	MSP	R671257
Chromium (Cr)	<0.005		0.005	mg/L		26-MAY-08	MSP	R671257
Copper (Cu)	0.046		0.001	mg/L		26-MAY-08	MSP	R671257
Molybdenum (Mo)	<0.005		0.005	mg/L		26-MAY-08	MSP	R671257
Nickel (Ni)	0.003		0.002	mg/L		26-MAY-08	MSP	R671257
Lead (Pb)	0.010		0.005	mg/L		26-MAY-08	MSP	R671257
Tin (Sn)	<0.05		0.05	mg/L		26-MAY-08	MSP	R671257
Strontium (Sr)	0.017		0.002	mg/L		26-MAY-08	MSP	R671257
Titanium (Ti)	0.083		0.001	mg/L		26-MAY-08	MSP	R671257
Thallium (Tl)	<0.05		0.05	mg/L		26-MAY-08	MSP	R671257
Vanadium (V)	0.009		0.001	mg/L		26-MAY-08	MSP	R671257
Zinc (Zn)	0.191		0.001	mg/L		26-MAY-08	MSP	R671257
Conductivity (EC)	88.8		0.2	uS/cm		22-MAY-08	CLTT	R669464