



Environmental Division

Certificate of Analysis

CASH CLIENTS CANADIAN EDMONTON

ATTN: ANDREW BERRY

1440-625 HOWE STREET

VANCOUVER BC V6C 2T6

Report Date: 22-SEP-09 09:52 (MT)

Version: FINAL

Lab Work Order #: L817857

Date Received: 14-SEP-09

Project P.O. #:

Job Reference:

Legal Site Desc: ANGILAK PROJECT 2009 WATER TEST

CofC Numbers: 08-011773

Other Information:

Comments:

NICOLE THIBAUT
Account Manager

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 LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L817857-1	ANG 1							
Sampled By: NBRIDGE on 08-SEP-09 @ 11:10								
Matrix: WATER								
Miscellaneous Parameters								
Oil and Grease		<1.0		1.0	mg/L		19-SEP-09	R950838
L817857-2	ANG2							
Sampled By: NBRIDGE on 08-SEP-09 @ 11:10								
Matrix: WATER								
F2, F3, F4								
F2 (>C10-C16)		<0.25		0.25	mg/L	17-SEP-09	17-SEP-09	R951433
F3 (C16-C34)		<0.25		0.25	mg/L	17-SEP-09	17-SEP-09	R951433
F4 (C34-C50)		<0.25		0.25	mg/L	17-SEP-09	17-SEP-09	R951433
L817857-3	ANG3							
Sampled By: NBRIDGE on 08-SEP-09 @ 11:10								
Matrix: WATER								
F2, F3, F4								
F2 (>C10-C16)		<0.25		0.25	mg/L	17-SEP-09	17-SEP-09	R951433
F3 (C16-C34)		<0.25		0.25	mg/L	17-SEP-09	17-SEP-09	R951433
F4 (C34-C50)		<0.25		0.25	mg/L	17-SEP-09	17-SEP-09	R951433
L817857-4	ANG4							
Sampled By: NBRIDGE on 08-SEP-09 @ 11:10								
Matrix: WATER								
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total		<0.00010		0.00010	mg/L		18-SEP-09	R949764
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total		0.151		0.010	mg/L		17-SEP-09	R947666
Antimony (Sb)-Total		<0.00040		0.00040	mg/L		17-SEP-09	R947666
Arsenic (As)-Total		<0.00040		0.00040	mg/L		17-SEP-09	R947666
Barium (Ba)-Total		0.102		0.0030	mg/L		17-SEP-09	R947666
Beryllium (Be)-Total		<0.0010		0.0010	mg/L		17-SEP-09	R947666
Boron (B)-Total		<0.050		0.050	mg/L		17-SEP-09	R947666
Cadmium (Cd)-Total		<0.000050		0.000050	mg/L		17-SEP-09	R947666
Chromium (Cr)-Total		<0.0050		0.0050	mg/L		17-SEP-09	R947666
Cobalt (Co)-Total		<0.0020		0.0020	mg/L		17-SEP-09	R947666
Copper (Cu)-Total		0.0015		0.0010	mg/L		17-SEP-09	R947666
Lead (Pb)-Total		0.00029		0.00010	mg/L		17-SEP-09	R947666
Lithium (Li)-Total		<0.010		0.010	mg/L		17-SEP-09	R947666
Molybdenum (Mo)-Total		<0.0050		0.0050	mg/L		17-SEP-09	R947666
Nickel (Ni)-Total		<0.0020		0.0020	mg/L		17-SEP-09	R947666
Selenium (Se)-Total		<0.00040		0.00040	mg/L		17-SEP-09	R947666
Silver (Ag)-Total		<0.00010		0.00010	mg/L		17-SEP-09	R947666
Thallium (Tl)-Total		<0.00010		0.00010	mg/L		17-SEP-09	R947666
Tin (Sn)-Total		<0.050		0.050	mg/L		17-SEP-09	R947666
Titanium (Ti)-Total		0.0040		0.0010	mg/L		17-SEP-09	R947666
Uranium (U)-Total		0.00033		0.00010	mg/L		17-SEP-09	R947666
Vanadium (V)-Total		<0.0010		0.0010	mg/L		17-SEP-09	R947666
Zinc (Zn)-Total		0.0046		0.0040	mg/L		17-SEP-09	R947666
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total		6.37		0.50	mg/L		18-SEP-09	R947036
Iron (Fe)-Total		0.787		0.010	mg/L		18-SEP-09	R947036
Magnesium (Mg)-Total		4.08		0.10	mg/L		18-SEP-09	R947036

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L817857-4 ANG4 Sampled By: NBRIDGE on 08-SEP-09 @ 11:10 Matrix: WATER Total Metals in Water by ICPOES (Low) Manganese (Mn)-Total Potassium (K)-Total Sodium (Na)-Total	 0.0259 0.32 1.5		 0.0020 0.10 1.0	 mg/L mg/L mg/L		 18-SEP-09 18-SEP-09 18-SEP-09	 R947036 R947036 R947036
L817857-5 ANG5 Sampled By: NBRIDGE on 08-SEP-09 @ 11:10 Matrix: WATER BTEX and F1 (C6-C10) Benzene Toluene EthylBenzene Xylenes F1(C6-C10) F1-BTEX	 <0.00050 <0.00050 <0.00050 <0.00050 <0.10 <0.10		 0.00050 0.00050 0.00050 0.00050 0.10 0.10	 mg/L mg/L mg/L mg/L mg/L mg/L	 16-SEP-09 16-SEP-09 16-SEP-09 16-SEP-09 16-SEP-09 16-SEP-09	 16-SEP-09 16-SEP-09 16-SEP-09 16-SEP-09 16-SEP-09 16-SEP-09	 R942203 R942203 R942203 R942203 R942203 R942203

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
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Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTX,F1-ED	Water	BTEX and F1 (C6-C10)	EPA 5021/8015&8260 GC-MS & FID
F2,F3,F4-ED	Water	F2, F3, F4	EPA 3510/CCME PHC CWS-GC-FID
HG-T-CVAA-ED	Water	Mercury (Hg) - Total	EPA 245.7 / EPA 245.1
MET-T-L-ICP-ED	Water	Total Metals in Water by ICPOES (Low)	APHA 3120 B-ICP-OES
MET-T-L-MS-ED	Water	Total Metals in Water by ICPMS (Low)	SW 846 - 6020-ICPMS
OGG-ED	Water	Oil and Grease-Gravimetric	APHA 5520 G HEXANE MTBE EXT. GRAVIME

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

08-011773

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mk/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

**Environmental Division**

ALS Laboratory Group Quality Control Report

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Client: CASH CLIENTS CANADIAN EDMONTON
1440-625 HOWE STREET
VANCOUVER BC V6C 2T6

Contact: ANDREW BERRY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX,F1-ED		Water						
Batch	R942203							
WG1004580-1	DUP	L817801-2						
Benzene		0.00166	0.00170	J	mg/L	0.00004	0.002	16-SEP-09
EthylBenzene		0.00228	0.00232	J	mg/L	0.00004	0.002	16-SEP-09
Toluene		0.304	0.309		mg/L	1.9	30	16-SEP-09
F1(C6-C10)		0.65	0.70	J	mg/L	0.05	0.2	16-SEP-09
Xylenes		0.0271	0.0278		mg/L	2.3	30	16-SEP-09
WG1003777-2	LCS							
Benzene			102		%		70-130	16-SEP-09
EthylBenzene			89		%		70-130	16-SEP-09
Toluene			97		%		70-130	16-SEP-09
F1(C6-C10)			112		%		70-130	16-SEP-09
Xylenes			91		%		70-130	16-SEP-09
WG1003777-1	MB							
Benzene			<0.00050		mg/L		0.0005	16-SEP-09
EthylBenzene			<0.00050		mg/L		0.0005	16-SEP-09
Toluene			<0.00050		mg/L		0.0005	16-SEP-09
F1(C6-C10)			<0.10		mg/L		0.1	16-SEP-09
Xylenes			<0.00050		mg/L		0.0005	16-SEP-09
WG1004580-4	MB							
Benzene			<0.00050		mg/L		0.0005	16-SEP-09
EthylBenzene			<0.00050		mg/L		0.0005	16-SEP-09
Toluene			<0.00050		mg/L		0.0005	16-SEP-09
F1(C6-C10)			<0.10		mg/L		0.1	16-SEP-09
Xylenes			<0.00050		mg/L		0.0005	16-SEP-09
WG1004580-2	MS	L818362-9						
Benzene			87		%		50-150	16-SEP-09
EthylBenzene			66		%		50-150	16-SEP-09
Toluene			81		%		50-150	16-SEP-09
Xylenes			68		%		50-150	16-SEP-09
WG1004580-3	MS	L818362-9						
F1(C6-C10)			83		%		50-150	16-SEP-09
F2,F3,F4-ED		Water						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2,F3,F4-ED	Water							
Batch R951433								
WG1005859-2 LCS								
F2 (>C10-C16)			106		%		65-135	17-SEP-09
F3 (C16-C34)			106		%		65-135	17-SEP-09
F4 (C34-C50)			106		%		65-135	17-SEP-09
WG1005859-1 MB								
F2 (>C10-C16)			<0.25		mg/L		0.25	17-SEP-09
F3 (C16-C34)			<0.25		mg/L		0.25	17-SEP-09
F4 (C34-C50)			<0.25		mg/L		0.25	17-SEP-09
HG-T-CVAA-ED	Water							
Batch R949764								
WG1005729-6 DUP		L817821-2						
Mercury (Hg)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	18-SEP-09
WG1005729-2 LCS								
Mercury (Hg)-Total			97		%		80-120	18-SEP-09
WG1005729-3 LCSD		WG1005729-2						
Mercury (Hg)-Total		97	98		%	1.7	20	18-SEP-09
WG1005729-1 MB								
Mercury (Hg)-Total			<0.00010		mg/L		0.0001	18-SEP-09
WG1005729-7 MS		L817821-2						
Mercury (Hg)-Total			101		%		70-130	18-SEP-09
MET-T-L-ICP-ED	Water							
Batch R947036								
WG1004991-2 LCS								
Calcium (Ca)-Total			103		%		63-138	17-SEP-09
Iron (Fe)-Total			104		%		63-138	17-SEP-09
Magnesium (Mg)-Total			102		%		63-138	17-SEP-09
Manganese (Mn)-Total			101		%		63-138	17-SEP-09
Potassium (K)-Total			102		%		63-138	17-SEP-09
Sodium (Na)-Total			100		%		63-138	17-SEP-09
WG1004991-1 MB								
Calcium (Ca)-Total			<0.50		mg/L		0.5	17-SEP-09
Iron (Fe)-Total			<0.010		mg/L		0.01	17-SEP-09
Magnesium (Mg)-Total			<0.10		mg/L		0.1	17-SEP-09
Manganese (Mn)-Total			<0.0020		mg/L		0.002	17-SEP-09
Potassium (K)-Total			<0.10		mg/L		0.1	17-SEP-09

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-ICP-ED	Water							
Batch R947036								
WG1004991-1 MB								
Sodium (Na)-Total			<1.0		mg/L		1	17-SEP-09
MET-T-L-MS-ED	Water							
Batch R947666								
WG1004991-3 DUP		L815227-2						
Aluminum (Al)-Total		4.83	4.81		mg/L	0.42	20	18-SEP-09
Antimony (Sb)-Total		<0.020	<0.00040	RPD-NA	mg/L	N/A	10	18-SEP-09
Arsenic (As)-Total		<0.0040	0.00238	J	mg/L	0.00062	0.0016	18-SEP-09
Barium (Ba)-Total		0.176	0.170		mg/L	3.0	10	18-SEP-09
Beryllium (Be)-Total		<0.0040	<0.0010	RPD-NA	mg/L	N/A	26	18-SEP-09
Boron (B)-Total		<0.080	0.0709		mg/L	2.9	10	18-SEP-09
Cadmium (Cd)-Total		<0.00080	<0.000050	RPD-NA	mg/L	N/A	31	18-SEP-09
Chromium (Cr)-Total		0.083	0.0788		mg/L	5.1	18	18-SEP-09
Cobalt (Co)-Total		0.00945	0.00934		mg/L	1.1	12	18-SEP-09
Copper (Cu)-Total		0.0097	0.0090	J	mg/L	0.0007	0.004	18-SEP-09
Lead (Pb)-Total		0.00566	0.00572		mg/L	1.1	12	18-SEP-09
Lithium (Li)-Total		0.042	0.0407	J	mg/L	0.0014	0.024	18-SEP-09
Molybdenum (Mo)-Total		0.00314	0.00319		mg/L	1.7	10	18-SEP-09
Nickel (Ni)-Total		0.126	0.123		mg/L	2.4	10	18-SEP-09
Silver (Ag)-Total		<0.0016	0.00038	J	mg/L	0.00004	0.0004	18-SEP-09
Thallium (Tl)-Total		<0.00040	<0.00010	RPD-NA	mg/L	N/A	26	18-SEP-09
Tin (Sn)-Total		<0.0016	<0.00040	RPD-NA	mg/L	N/A	25	18-SEP-09
Titanium (Ti)-Total		0.334	0.320		mg/L	4.2	32	18-SEP-09
Uranium (U)-Total		0.00142	0.00140		mg/L	1.6	10	18-SEP-09
Vanadium (V)-Total		0.013	0.0123		mg/L	5.4	24	18-SEP-09
Zinc (Zn)-Total		0.043	0.0360	J	mg/L	0.0071	0.016	18-SEP-09
WG1004991-5 DUP		L819050-4						
Aluminum (Al)-Total		0.027	0.026	J	mg/L	0.001	0.04	18-SEP-09
Antimony (Sb)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	10	18-SEP-09
Arsenic (As)-Total		0.00058	0.00055	J	mg/L	0.00003	0.0016	18-SEP-09
Barium (Ba)-Total		0.0232	0.0231		mg/L	0.52	10	18-SEP-09
Beryllium (Be)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	26	18-SEP-09
Boron (B)-Total		<0.050	0.0355	J	mg/L	0.0011	0.016	18-SEP-09

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED		Water						
Batch	R947666							
WG1004991-5	DUP	L819050-4						
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	31	18-SEP-09
Chromium (Cr)-Total		<0.0050	<0.00080	RPD-NA	mg/L	N/A	18	18-SEP-09
Cobalt (Co)-Total		<0.0020	<0.00020	RPD-NA	mg/L	N/A	12	18-SEP-09
Copper (Cu)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	17	18-SEP-09
Lead (Pb)-Total		0.00019	0.00021	J	mg/L	0.00002	0.0004	18-SEP-09
Lithium (Li)-Total		<0.010	0.0072	J	mg/L	0.0001	0.024	18-SEP-09
Molybdenum (Mo)-Total		<0.0050	0.00018	J	mg/L	0.00001	0.0004	18-SEP-09
Nickel (Ni)-Total		<0.0020	0.00171	J	mg/L	0.00005	0.0008	18-SEP-09
Selenium (Se)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	21	18-SEP-09
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	33	18-SEP-09
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	18-SEP-09
Tin (Sn)-Total		<0.050	<0.00040	RPD-NA	mg/L	N/A	25	18-SEP-09
Titanium (Ti)-Total		0.0011	0.00116	J	mg/L	0.00008	0.0024	18-SEP-09
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	10	18-SEP-09
Vanadium (V)-Total		<0.0010	<0.00050	RPD-NA	mg/L	N/A	24	18-SEP-09
Zinc (Zn)-Total		<0.0040	<0.0040	RPD-NA	mg/L	N/A	40	18-SEP-09
WG1004991-2	LCS							
Zinc (Zn)-Total			93		%		63-138	17-SEP-09
Aluminum (Al)-Total			111		%		63-138	17-SEP-09
Antimony (Sb)-Total			105		%		63-138	17-SEP-09
Arsenic (As)-Total			103		%		63-138	17-SEP-09
Barium (Ba)-Total			98		%		63-138	17-SEP-09
Beryllium (Be)-Total			105		%		63-138	17-SEP-09
Boron (B)-Total			101		%		63-138	17-SEP-09
Cadmium (Cd)-Total			98		%		63-138	17-SEP-09
Chromium (Cr)-Total			99		%		63-138	17-SEP-09
Cobalt (Co)-Total			105		%		63-138	17-SEP-09
Copper (Cu)-Total			102		%		63-138	17-SEP-09
Lead (Pb)-Total			97		%		63-138	17-SEP-09
Lithium (Li)-Total			100		%		63-138	17-SEP-09
Molybdenum (Mo)-Total			99		%		63-138	17-SEP-09
Nickel (Ni)-Total			105		%		63-138	17-SEP-09
Selenium (Se)-Total			98		%		63-138	17-SEP-09

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED	Water							
Batch	R947666							
WG1004991-2 LCS								
Silver (Ag)-Total			93		%		63-138	17-SEP-09
Thallium (Tl)-Total			101		%		63-138	17-SEP-09
Tin (Sn)-Total			104		%		63-138	17-SEP-09
Titanium (Ti)-Total			104		%		63-138	17-SEP-09
Uranium (U)-Total			97		%		63-138	17-SEP-09
Vanadium (V)-Total			99		%		63-138	17-SEP-09
WG1004991-1 MB								
Aluminum (Al)-Total			<0.010		mg/L		0.05	17-SEP-09
Antimony (Sb)-Total			<0.00040		mg/L		0.002	17-SEP-09
Arsenic (As)-Total			<0.00040		mg/L		0.002	17-SEP-09
Barium (Ba)-Total			<0.00020		mg/L		0.001	17-SEP-09
Beryllium (Be)-Total			<0.0010		mg/L		0.005	17-SEP-09
Boron (B)-Total			<0.0040		mg/L		0.02	17-SEP-09
Cadmium (Cd)-Total			<0.000050		mg/L		0.00025	17-SEP-09
Chromium (Cr)-Total			<0.00080		mg/L		0.004	17-SEP-09
Cobalt (Co)-Total			<0.00020		mg/L		0.001	17-SEP-09
Copper (Cu)-Total			<0.0010		mg/L		0.005	17-SEP-09
Lead (Pb)-Total			<0.00010		mg/L		0.0005	17-SEP-09
Lithium (Li)-Total			<0.0060		mg/L		0.006	17-SEP-09
Molybdenum (Mo)-Total			<0.00010		mg/L		0.0005	17-SEP-09
Nickel (Ni)-Total			<0.00020		mg/L		0.001	17-SEP-09
Selenium (Se)-Total			<0.00040		mg/L		0.002	17-SEP-09
Silver (Ag)-Total			<0.00010		mg/L		0.0005	17-SEP-09
Thallium (Tl)-Total			<0.00010		mg/L		0.0005	17-SEP-09
Tin (Sn)-Total			<0.00040		mg/L		0.002	17-SEP-09
Titanium (Ti)-Total			<0.00060		mg/L		0.003	17-SEP-09
Uranium (U)-Total			<0.00010		mg/L		0.0005	17-SEP-09
Vanadium (V)-Total			<0.00050		mg/L		0.0025	17-SEP-09
Zinc (Zn)-Total			<0.0040		mg/L		0.02	17-SEP-09
WG1004991-4 MS		L815227-2						
Aluminum (Al)-Total			99		%		71-127	18-SEP-09
Antimony (Sb)-Total			101		%		80-116	18-SEP-09
Arsenic (As)-Total			103		%		78-117	18-SEP-09

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED	Water							
Batch	R947666							
WG1004991-4 MS		L815227-2						
Barium (Ba)-Total			94		%		78-121	18-SEP-09
Beryllium (Be)-Total			103		%		68-132	18-SEP-09
Boron (B)-Total			99		%		75-122	18-SEP-09
Cadmium (Cd)-Total			101		%		83-114	18-SEP-09
Chromium (Cr)-Total			101		%		83-113	18-SEP-09
Cobalt (Co)-Total			98		%		87-114	18-SEP-09
Copper (Cu)-Total			105		%		86-114	18-SEP-09
Lead (Pb)-Total			101		%		80-121	18-SEP-09
Lithium (Li)-Total			103		%		74-126	18-SEP-09
Molybdenum (Mo)-Total			102		%		79-117	18-SEP-09
Nickel (Ni)-Total			95		%		76-114	18-SEP-09
Selenium (Se)-Total			108		%		69-127	18-SEP-09
Silver (Ag)-Total			89		%		39-134	18-SEP-09
Thallium (Tl)-Total			103		%		80-123	18-SEP-09
Tin (Sn)-Total			98		%		81-120	18-SEP-09
Titanium (Ti)-Total			100		%		70-130	18-SEP-09
Uranium (U)-Total			103		%		81-123	18-SEP-09
Vanadium (V)-Total			100		%		80-115	18-SEP-09
Zinc (Zn)-Total			102		%		64-125	18-SEP-09
WG1004991-6 MS		L819050-4						
Aluminum (Al)-Total			99		%		71-127	18-SEP-09
Antimony (Sb)-Total			98		%		80-116	18-SEP-09
Arsenic (As)-Total			98		%		78-117	18-SEP-09
Barium (Ba)-Total			90		%		78-121	18-SEP-09
Beryllium (Be)-Total			97		%		68-132	18-SEP-09
Boron (B)-Total			99		%		75-122	18-SEP-09
Cadmium (Cd)-Total			96		%		83-114	18-SEP-09
Chromium (Cr)-Total			98		%		83-113	18-SEP-09
Cobalt (Co)-Total			100		%		87-114	18-SEP-09
Copper (Cu)-Total			105		%		86-114	18-SEP-09
Lead (Pb)-Total			95		%		80-121	18-SEP-09
Lithium (Li)-Total			103		%		74-126	18-SEP-09
Molybdenum (Mo)-Total			102		%		79-117	18-SEP-09

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED								
Batch R947666								
WG1004991-6 MS		L819050-4						
Nickel (Ni)-Total			99		%		76-114	18-SEP-09
Selenium (Se)-Total			92		%		69-127	18-SEP-09
Silver (Ag)-Total			86		%		39-134	18-SEP-09
Thallium (Tl)-Total			97		%		80-123	18-SEP-09
Tin (Sn)-Total			100		%		81-120	18-SEP-09
Titanium (Ti)-Total			100		%		70-130	18-SEP-09
Uranium (U)-Total			88		%		81-123	18-SEP-09
Vanadium (V)-Total			101		%		80-115	18-SEP-09
Zinc (Zn)-Total			92		%		64-125	18-SEP-09
OGG-ED								
Batch R950838								
WG1005504-2 LCS								
Oil and Grease			81		%		63-138	19-SEP-09
WG1005504-1 MB								
Oil and Grease			<1.0		mg/L		1	19-SEP-09

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Environmental Division

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

L817857

COC # 08-011773

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Report to:		Report Format / Distribution		Service Requested: (rush - subject to availability)	
Company:	KIVALLIA ENERGY COOP	Standard:	☒ V	Other:	
Contact:	ANDREW BERRY	Select:	PDF	Excel	Digital
Address:	1440-625 HWY 57 VANCOUVER BC V6C 2T6	Email 1:	jordan@kivalliaenergy.com		
Phone:	604 646 4838	Email 2:	andrab@kivalliaenergy.com		
Invoice To:	Same as Report?	Client / Project Information:			
Company:	Yes / No?	Job #:			
Contact:		PO / AFE:			
Address:		Legal Site Description:	ANGULAK. PROJECT		
Phone:		Quote #:	2009 WATER TEST		
Lab Work Order # (lab use only)		ALS Contact:	Sampler: N.BK106E		
Sample #	L817857				
Sample Identification (This description will appear on the report)		Date	Time	Sample Type	
ANG 1 - Oil and grease (hydrocarbon 1x (500ml) 1-HCl added.		8/9/09	11:10	water	
ANG 2 - ? CuOS or EPH (checked with client) and 2x 250ml - no additive		8/9/09	11:10	water	
ANG 3 - Metals (total) 1x 250ml - nitric acid added		8/9/09	11:10	water	
ANG 4 - Volatile organics 2x 40ml glass vial sodium bisulfate added		8/9/09	11:10	water	
Special Instructions / Regulations / Hazardous Details					

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)		SHIPMENT RECEPTION (lab use only)		SHIPMENT VERIFICATION (lab use only)	
Released by:	Date & Time:	Received by:	Date:	Time:	Temperature:
Jace Ward	8/9/09 11:30 AM	RWS	14 Sept 09	3:20 PM	
		Verified by:	Date & Time:	Observations:	
				Yes / No ? If Yes attach SIP	

GENF 18.00 Front