#4100, 350 – 7th Avenue SW, Calgary, AB T2P 3N9
Phone (403) 781-7800 Fax (403) 781-7801
www.mgmenergy.com

January 2, 2013

sent via email

Sahtu Land and Water Board
P.O. Box 1
Fort Good Hope, NT X0E 0H0

paul.dixon@slwb.com

Attention: Executive Director

Dear Sir:

RE: Water License S12L1-001 - Potable Water for Staging Area Camp

Pursuant to Part B Section 4 of the above mentioned water licence, please find attached lab analysis. This test result and duplicate represents the December 17, 2012 potable water test from the camp. The results meet Canada's Drinking Water Standard.

For questions or concerns, please contact Tim Taylor at 403-781-7816 or tim.taylor@mgmenergy.com.

Yours truly,

MGM ENERGY CORP.

Susan Sevcenko
Regulatory & Surface Land Administrator

Cc: *Steve Deschene, Resource Management Officer - AANDC*

Encls.

Maxxam

Your Project #: MGM I-78 WELL
Your C.O.C. #: A088636

Attention: Carrie Nanninga
MGM ENERGY CORP
4100, 350 - 7th AVENUE SW
CALGARY, AB
CANADA T2P 3N9

Report Date: 2012/12/21

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B2B4120
Received: 2012/12/18, 8:15

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2012/12/18	AB SOP-00005	SM 2320-B
Chloride by Automated Colourimetry	1	N/A	2012/12/20	AB SOP-00020	EPA 325.2
Total Coliforms and E.Coli	1	2012/12/18	2012/12/19	EENV SOP-00162	SM 9223 A,B
Conductivity @25C	1	N/A	2012/12/18	AB SOP-00005	SM 2510-B
Hardness	1	N/A	2012/12/21	AB WI-00065	SM 2340B
Elements by ICP - Dissolved	1	N/A	2012/12/20	AB SOP-00042	EPA 200.7
Ion Balance	1	N/A	2012/12/21	AB WI-00065	SM 1030E
Sum of cations, anions	1	N/A	2012/12/21	AB WI-00065	SM 1030E
Nitrate and Nitrite	1	N/A	2012/12/20	AB SOP-00023	SM4110B
Nitrate + Nitrite-N (calculated)	1	N/A	2012/12/20	AB SOP-00023	SM 4110-B
Nitrogen, (Nitrite, Nitrate) by IC	1	N/A	2012/12/20	AB SOP-00023	SM 4110-B
pH @25°C (Alkalinity titrator)	1	N/A	2012/12/18	AB SOP-00005	SM 4500-H+B
Sulphate by Automated Colourimetry	1	N/A	2012/12/20	AB SOP-00018	EPA 375.4
Total Dissolved Solids (Calculated)	1	N/A	2012/12/21	AB WI-00065	SM 1030E
Turbidity	1	N/A	2012/12/20	EENVSOP-00066	SM 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugine, M.Sc., Project Manager
Email: TEugine@maxxam.ca
Phone# (780) 577-7100

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B2B4120
Report Date: 2012/12/21

MGM ENERGY CORP
Client Project #: MGM I-78 WELL

ROUTINE WATER (WATER)

Maxxam ID				FG3247		
Sampling Date				2012/12/17		
COC Number				A088636		
	UNITS	**Criteria A**	**Criteria B**	**POTABLE - DEC 17/12**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	meq/L	-	-	4.3	N/A	6435172
Cation Sum	meq/L	-	-	4.4	N/A	6435172
Hardness (CaCO3)	mg/L	-	-	180	0.50	6435170
Ion Balance	N/A	-	-	1.0	0.010	6435171
Dissolved Nitrate (NO3)	mg/L	**45**	-	0.67	0.013	6434797
Nitrate plus Nitrite (N)	mg/L	-	-	0.15	0.0030	6434798
Dissolved Nitrite (NO2)	mg/L	**3.2**	-	ND	0.0099	6434797
Total Dissolved Solids	mg/L	-	500	230	10	6435844
Misc. Inorganics						
Conductivity	uS/cm	-	-	500	1.0	6434221
pH	N/A	-	6.5:8.5	7.79	N/A	6434220
Anions						
Alkalinity (PP as CaCO3)	mg/L	-	-	ND	0.50	6434218
Alkalinity (Total as CaCO3)	mg/L	-	-	37	0.50	6434218
Bicarbonate (HCO3)	mg/L	-	-	45	0.50	6434218
Carbonate (CO3)	mg/L	-	-	ND	0.50	6434218
Hydroxide (OH)	mg/L	-	-	ND	0.50	6434218
Dissolved Sulphate (SO4)	mg/L	-	500	1.5	1.0	6441500
Dissolved Chloride (Cl)	mg/L	-	250	120	1.0	6441497
Nutrients						
Dissolved Nitrite (N)	mg/L	**1**	-	ND	0.0030	6440938
Dissolved Nitrate (N)	mg/L	**10**	-	0.15	0.0030	6440938
Elements						
Dissolved Calcium (Ca)	mg/L	-	-	50	0.30	6440685
Dissolved Iron (Fe)	mg/L	-	0.3	ND	0.060	6440685
Dissolved Magnesium (Mg)	mg/L	-	-	13	0.20	6440685
Dissolved Manganese (Mn)	mg/L	-	0.05	ND	0.0040	6440685
Dissolved Potassium (K)	mg/L	-	-	8.9	0.30	6440685
Dissolved Sodium (Na)	mg/L	-	200	13	0.50	6440685

ND = Not detected
RDL = Reportable Detection Limit

Maxxam Job #: B2B4120
Report Date: 2012/12/21

MGM ENERGY CORP
Client Project #: MGM I-78 WELL

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID			FG3247		
Sampling Date			2012/12/17		
COC Number			A088636		
	UNITS	**Criteria**	**POTABLE - DEC 17/12**	**RDL**	**QC Batch**
Microbiological Param.					
E.Coli DST	mpn/100mL	**-**	ND	1.0	6443554
Total Coliforms DST	mpn/100mL	**0**	ND	1.0	6443554
Physical Properties					
Turbidity	NTU	**see remark**	ND	0.10	6442603

ND = Not detected
RDL = Reportable Detection Limit

Package 1	-0.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Criteria,Criteria B: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, August 2012.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG) It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:
1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

MGM ENERGY CORP
Attention: Carrie Nanninga
Client Project #: MGM I-78 WELL
P.O. #:
Site Location:

Quality Assurance Report

Maxxam Job Number: EB2B4120

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
6434218	CBE	Spiked Blank	Alkalinity (Total as CaCO3)	2012/12/18		97	%	80 - 120
		Method Blank	Alkalinity (PP as CaCO3)	2012/12/18	ND, RDL=0.50		mg/L	
			Alkalinity (Total as CaCO3)	2012/12/18	ND, RDL=0.50		mg/L	
			Bicarbonate (HCO3)	2012/12/18	ND, RDL=0.50		mg/L	
			Carbonate (CO3)	2012/12/18	ND, RDL=0.50		mg/L	
			Hydroxide (OH)	2012/12/18	ND, RDL=0.50		mg/L	
		RPD	Alkalinity (PP as CaCO3)	2012/12/18	NC		%	20
			Alkalinity (Total as CaCO3)	2012/12/18	0.03		%	20
			Bicarbonate (HCO3)	2012/12/18	0.04		%	20
			Carbonate (CO3)	2012/12/18	NC		%	20
			Hydroxide (OH)	2012/12/18	NC		%	20
6434220	CBE	Spiked Blank	pH	2012/12/18		100	%	97 - 103
		RPD	pH	2012/12/18	0.07		%	5
6434221	CBE	Spiked Blank	Conductivity	2012/12/18		99	%	90 - 110
		Method Blank	Conductivity	2012/12/18	ND, RDL=1.0		uS/cm	
		RPD	Conductivity	2012/12/18	0.7		%	20
6440685	JK9	Matrix Spike	Dissolved Calcium (Ca)	2012/12/20		NC	%	80 - 120
			Dissolved Iron (Fe)	2012/12/20		89	%	80 - 120
			Dissolved Magnesium (Mg)	2012/12/20		NC	%	80 - 120
			Dissolved Manganese (Mn)	2012/12/20		81	%	80 - 120
			Dissolved Potassium (K)	2012/12/20		87	%	80 - 120
			Dissolved Sodium (Na)	2012/12/20		NC	%	80 - 120
		Spiked Blank	Dissolved Calcium (Ca)	2012/12/20		103	%	80 - 120
			Dissolved Iron (Fe)	2012/12/20		104	%	80 - 120
			Dissolved Magnesium (Mg)	2012/12/20		104	%	80 - 120
			Dissolved Manganese (Mn)	2012/12/20		96	%	80 - 120
			Dissolved Potassium (K)	2012/12/20		106	%	80 - 120
			Dissolved Sodium (Na)	2012/12/20		98	%	80 - 120
		Method Blank	Dissolved Calcium (Ca)	2012/12/20	ND, RDL=0.30		mg/L	
			Dissolved Iron (Fe)	2012/12/20	ND, RDL=0.060		mg/L	
			Dissolved Magnesium (Mg)	2012/12/20	ND, RDL=0.20		mg/L	
			Dissolved Manganese (Mn)	2012/12/20	ND, RDL=0.0040		mg/L	
			Dissolved Potassium (K)	2012/12/20	ND, RDL=0.30		mg/L	
			Dissolved Sodium (Na)	2012/12/20	ND, RDL=0.50		mg/L	
		RPD	Dissolved Calcium (Ca)	2012/12/20	0.3		%	20
			Dissolved Iron (Fe)	2012/12/20	NC		%	20
			Dissolved Magnesium (Mg)	2012/12/20	0.4		%	20
			Dissolved Manganese (Mn)	2012/12/20	NC		%	20
			Dissolved Potassium (K)	2012/12/20	0.6		%	20
			Dissolved Sodium (Na)	2012/12/20	2.0		%	20
6440938	SB8	Matrix Spike	Dissolved Nitrite (N)	2012/12/20		97	%	80 - 120
			Dissolved Nitrate (N)	2012/12/20		103	%	80 - 120
		Spiked Blank	Dissolved Nitrite (N)	2012/12/20		95	%	80 - 120
			Dissolved Nitrate (N)	2012/12/20		100	%	90 - 110
		Method Blank	Dissolved Nitrite (N)	2012/12/20	ND, RDL=0.0030		mg/L	
			Dissolved Nitrate (N)	2012/12/20	ND, RDL=0.0030		mg/L	
		RPD	Dissolved Nitrite (N)	2012/12/20	NC		%	20
			Dissolved Nitrate (N)	2012/12/20	NC		%	20
6441497	KD5	Matrix Spike	Dissolved Chloride (Cl)	2012/12/20		101	%	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2012/12/20		99	%	80 - 120
		Method Blank	Dissolved Chloride (Cl)	2012/12/20	ND, RDL=1.0		mg/L	
		RPD	Dissolved Chloride (Cl)	2012/12/20	1.3		%	20
6441500	KD5	Matrix Spike	Dissolved Sulphate (SO4)	2012/12/20		NC	%	80 - 120
		Spiked Blank	Dissolved Sulphate (SO4)	2012/12/20		102	%	80 - 120
		Method Blank	Dissolved Sulphate (SO4)	2012/12/20	ND, RDL=1.0		mg/L	

MGM ENERGY CORP
Attention: Carrie Nanninga
Client Project #: MGM I-78 WELL
P.O. #:
Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: EB2B4120

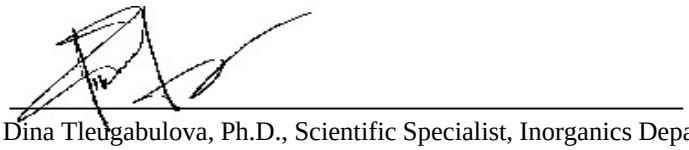
QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
6441500	KD5	RPD	Dissolved Sulphate (SO4)	2012/12/20	3.7		%	20
6442603	MSD	Spiked Blank	Turbidity	2012/12/20		105	%	80 - 120
		Method Blank	Turbidity	2012/12/20	ND, RDL=0.10		NTU	
		RPD	Turbidity	2012/12/20	1.5		%	20
6443554	JKB	Method Blank	E.Coli DST	2012/12/19	ND, RDL=1.0		mpn/100mL	
			Total Coliforms DST	2012/12/19	ND, RDL=1.0		mpn/100mL	
		RPD	E.Coli DST	2012/12/19	NC		%	100
			Total Coliforms DST	2012/12/19	NC		%	100

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B2B4120

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Dina Tleugabulova, Ph.D., Scientific Specialist, Inorganics Department

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam

Calgary: 4000 19st St. NE, T2E 6P8. Ph: (403) 291-3077, Fax: (403) 735-2240, Toll free: (800) 386-7247
Edmonton: 9331 - 48 Street, T6B 2R4. Ph: (780) 577-7100, Fax: (780) 450-4187, Toll free: (877) 485-8889
www.maxxamanalytics.com

12/1481

Chain of Custody

A088636

Page: 1 of 1

	Invoice To: C/O Report Address ☐	Report To: Same as Invoice ☒	Report Distribution (E-Mail):
Company:	MGM Energy	MGM Energy	tim.taylor@mgmenergy.com carrie.nanninga@mgmenergy.com marty@merla.ca
Contact:	Carrie Nanninga		
Address:	Calgary		
	Prov: PC:	Prov: PC:	
Contact #s:	Ph: (403) 835-2273 Cell:	Ph: Cell:	

REGULATORY GUIDELINES:
- ☐ AT1
- ☒ CCME
- ☒ Regulated Drinking Water
- ☐ Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.

PO #:	
Project # / Name:	MGM I-78 Well
Site Location:	
Quote #:	
Sampled By:	

SERVICE REQUESTED: ☐ RUSH (Contact lab to reserve) Date Required: ☒ REGULAR (5 to 7 Days)

See reverse for package specifics

	Sample ID	Depth (unit)	Matrix GW / SW Soil	Date/Time Sampled YY/MM/DD 24:00	SOIL: BTEX F1-F4	Sieve (75 micron)	Regulated Metals (CCME / AT1)	Salinity 4	Assessment ICP Metals	Basic Class II Landfill	WATER: ☐BTEX F1 ☐VOCs	☐BTEX F1-F2 ☐BTEX F1-F4	☒ Routine Water ☐ Turb ☐ F	☐ TOC ☐ DOC	Regulated Metals (CCME / AT1) Total	Regulated Metals (CCME / AT1) Dissolved	Mercury ☐ Total ☐ Dissolved	Other Analysis: Total Coliforms	E. Coli	HOLD - Do not Analyze	# of Containers Submitted
1	Potable - Dec 17/12		H2O	12/12/17									X					X	X		3
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Please indicate Filtered, Preserved or Both (F, P, F/P) → F/P

Relinquished By (Signature/Print): Marty Larson	Date (YY/MM/DD): 12/12/17	Time (24:00):
Relinquished By (Signature/Print):	Date (YY/MM/DD):	Time (24:00):

Special Instructions:

# of Jars Used & Not Submitted

LAB USE ONLY

Received By:	Date:	Time:	Maxxam Job #: B2B4120
Amanda L'Hirondelle	20171218	0815	Custody Seal: Absent / Temperature: -1.0, -1 / Ice: Present

Lab Comments:

Duplicate

Date: 02-JAN-13
PO No.:
WO No.: L1250361
Project Ref:
Sample ID: POTABLE - DEC 17/12 - DUPLICATE
Sampled By: D. Bowlby
Date Collected: 17-DEC-12
Lab Sample ID: L1250361-1
Matrix: Water

MGM ENERGY CORP
4100 - 350 7 AVE SW
CALGARY AB T2P 3N9
ATTN: CARRIE NANNINGA

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Routine Potable Water						
*Nitrate and Nitrite (as N)	0.169		mg/L	10		24-DEC-12
*Turbidity	<0.10		NTU	0.1		20-DEC-12
pH, Conductivity and Total Alkalinity						
pH	7.45	RRV	pH		6.5-8.5	20-DEC-12
Conductivity (EC)	615	RRV	uS/cm			20-DEC-12
Bicarbonate (HCO3)	46.7	RRV	mg/L			20-DEC-12
Carbonate (CO3)	<5.0	RRV	mg/L			20-DEC-12
Hydroxide (OH)	<5.0	RRV	mg/L			20-DEC-12
Alkalinity, Total (as CaCO3)	38.3	RRV	mg/L			20-DEC-12
Total Metals in Water by ICPOES						
Calcium (Ca)-Total	44.9		mg/L			24-DEC-12
Iron (Fe)-Total	<0.030		mg/L		0.3	24-DEC-12
Magnesium (Mg)-Total	11.5		mg/L			24-DEC-12
Manganese (Mn)-Total	<0.0050		mg/L		0.05	24-DEC-12
Potassium (K)-Total	7.65		mg/L			24-DEC-12
Sodium (Na)-Total	33.2		mg/L		200	24-DEC-12
Sulfate by IC						
Sulfate (SO4)	1.29	RRV	mg/L		500	20-DEC-12
Nitrite as N by IC						
*Nitrite (as N)	<0.050		mg/L	1		20-DEC-12
Nitrate as N by IC						
*Nitrate (as N)	0.169		mg/L	10		20-DEC-12
Ion Balance Calculation						
Ion Balance	111	BL:INT	%			27-DEC-12
TDS (Calculated)	248		mg/L		500	27-DEC-12
Hardness (as CaCO3)	159		mg/L		500	27-DEC-12
Fluoride by IC						
Fluoride (F)	0.093		mg/L	1.5		20-DEC-12
Chloride by IC						
Chloride (Cl)	126	RRV	mg/L		250	20-DEC-12
Special Request	See Attached					02-JAN-13
Total Suspended Solids	<3.0		mg/L			24-DEC-12

MGM ENERGY CORP
4100 - 350 7 AVE SW
CALGARY AB T2P 3N9
ATTN: CARRIE NANNINGA

Date: 02-JAN-13
PO No.:
WO No.: L1250361
Project Ref:
Sample ID: POTABLE - DEC 17/12 - DUPLICATE
Sampled By: D. Bowlby
Date Collected: 17-DEC-12
Lab Sample ID: L1250361-1
Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
CDWQG = Health Canada Guideline Limits updated	**AUG 2012**					

* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit.
* Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality
- A blank entry designates no known limit.
- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.

Approved by

Jennifer McLaughlin
Account Manager

Guidelines & Objectives

Sample Parameter Qualifier key listed:

Qualifier	Description
RRV	Reported Result Verified By Repeat Analysis
BL:INT	Balance Reviewed: Interference Or Non-Measured Component

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N*	Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.
Lead*	A cumulative body poison, uncommon in naturally occurring hard waters.
Fluoride*	Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).
Total Coliforms*	Criteria is 0 CFU/100mL. Adverse health effects.
E. Coli*	Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Concentration Levels

Alkalinity	Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.
Balance	Quality control parameter ratioing cations to anions
Bicarbonate	See Alkalinity. Report as the anion HCO3-1
Carbonate	See Alkalinity. Reported at the anion CO3-2
Calcium	See Hardness. Common major cation of water chemistry.
Chloride	Common major anion of water chemistry.
Conductance	Physical test measuring water salinity (dissolved ions or solids)
Hardness	Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.
Hydroxide	See alkalinity
Magnesium	See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.
pH	Measure of water acidity/alkalinity. Normal range is 7.0-8.5.
Potassium	Common major cation of water chemistry.
Sodium	Common major cation of water chemistry. Measure of salinity (saltiness).
Sulphate	Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.
Total Dissolved Solids	A measure of water salinity.
Iron	Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.
Manganese	Elevated levels may cause staining of laundry and porcelain.
Heterotrophic Plate Count	Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

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
mg/kg wwt - 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.

Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3
Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.: 121094

- FINAL REPORT -

Prepared For: ALS Environmental

Address: 314 Old Airport Road
Unit 116
Yellowknife, NT
X1A 2R1

Attn: **Bruce Stuart** **Facsimile:**

Final report has been reviewed and approved by:

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: Monday, December 24, 2012
Print Date: Monday, December 24, 2012

Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3
Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.: 121094

- CERTIFICATE OF ANALYSIS -

Client Sample ID: L1250361-1 Potable **Taiga Sample ID:** 001

Client Project:
Sample Type: Water
Received Date: 18-Dec-12
Sampling Date: 17-Dec-12
Sampling Time:
Location:
Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
Microbiology						
Coliforms, Fecal	< 1	1	CFU/100mL	18-Dec-12	SM9222:D	
Coliforms, Total	< 1.0	1.0	MPN/100mL	18-Dec-12	SM9223:B	
Escherichia coli	< 1.0	1.0	MPN/100mL	18-Dec-12	SM9223:B	

ReportDate: Monday, December 24, 2012
Print Date: Monday, December 24, 2012

Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3
Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.: 121094

- CERTIFICATE OF ANALYSIS -

Client Sample ID: L1250361-1 Potable **Taiga Sample ID:** 001

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

ReportDate: Monday, December 24, 2012
Print Date: Monday, December 24, 2012

ALS Environmental

Chain of Custody / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

COC # _____

Page 1 of 1

Report To		Report Format / Distribution	Service Requested (Rush for routine analysis subject to availability)
Company:	MGM Energy Corp	☐ Standard ☐ Other	◉ Regular (Standard Turnaround Times - Business Days)
Contact:	Carrie Nanninga	☑ PDF ☑ Excel ☐ Digital ☐ Fax	○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	Calgary, AB	Email 1: tim.taylor@mgmenergy.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
		Email 2: carrie.nanninga@mgmenergy.com	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	(403) 835-2273 Fax:	Email 3: marty@marila.ca	
Invoice To	Same as Report ? ☑ Yes ☐ No	Client / Project Information	
Hardcopy of Invoice with Report?	☐ Yes ☐ No	Job #:	
Company:		PO / AFE:	
Contact:		LSD: MGM I-78 Well	
Address:			
Phone:	Fax:	Quote #: Q25824	
Lab Work Order # (lab use only)	L1250361	ALS Contact: Bruce Stuart	Sampler: D. Bowlby

Analysis Request

Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Rountine Potability	E. Coli	Fecal Coliforms									Number of Containers
	Potable - Dec 17/12 - Duplicate	17-Dec-12		Water	X	X	X									3

L1250361-COFC

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by: Marty Larson	Date (dd-mmm-yy) 17-Dec-12	Time (hh-mm)	Received by:	Date:	Time:	Temperature: °C	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF

GENF 20.00 Front