



Manitoba Water Services Board
ATTN: ANGELA MEIER
Unit 1A, 2010 Currie Blvd
Brandon MB R7B 4E7

Date Received: 02-SEP-21
Report Date: 03-SEP-21 12:36 (MT)
Version: FINAL

Client Phone: 204-726-6092

Certificate of Analysis

Lab Work Order #: L2634851
Project P.O. #: NOT SUBMITTED
Job Reference: W157
C of C Numbers:
Legal Site Desc:

Kianna Brown
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2634851-1 RM OFFICE @ SHOP Sampled By: CLIENT on 02-SEP-21 @ 08:50 Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		02-SEP-21	R5578178
Escherichia Coli	0		0	MPN/100mL		02-SEP-21	R5578178
L2634851-2 FANNYSTELLE RESERVOIR INCOMING Sampled By: CLIENT on 02-SEP-21 @ 06:49 Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		02-SEP-21	R5578178
Escherichia Coli	0		0	MPN/100mL		02-SEP-21	R5578178
L2634851-3 ELIE RESERVOIR INCOMING Sampled By: CLIENT on 02-SEP-21 @ 07:41 Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		02-SEP-21	R5578178
Escherichia Coli	0		0	MPN/100mL		02-SEP-21	R5578178
L2634851-4 ELIE RESERVOIR OUTGOING Sampled By: CLIENT on 02-SEP-21 @ 07:40 Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		02-SEP-21	R5578178
Escherichia Coli	0		0	MPN/100mL		02-SEP-21	R5578178
L2634851-5 ELMBANK BOOSTER INCOMING Sampled By: CLIENT on 02-SEP-21 @ 07:18 Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		02-SEP-21	R5578178
Escherichia Coli	0		0	MPN/100mL		02-SEP-21	R5578178

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
TC,EC-QT51-WP	Water	Total Coliform and E.coli	APHA 9223B QT51

This analysis is carried out using procedures adapted from APHA Method 9223B "Enzyme Substrate Coliform Test". E. coli and Total Coliform are determined simultaneously. The sample is mixed with a mixture of hydrolyzable substrates and then sealed in a 51-well packet. The packet is incubated at 35.0 +/- 0.5 degrees C for 18 or 24 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

** 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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

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.



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Client: Manitoba Water Services Board
 Unit 1A, 2010 Currie Blvd
 Brandon MB R7B 4E7

Contact: ANGELA MEIER

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TC,EC-QT51-WP								
	Water							
Batch	R5578178							
WG3610287-1	MB							
Total Coliforms			0		MPN/100mL		1	02-SEP-21
Escherichia Coli			0		MPN/100mL		1	02-SEP-21
WG3610287-2	MB							
Total Coliforms			0		MPN/100mL		1	02-SEP-21
Escherichia Coli			0		MPN/100mL		1	02-SEP-21
WG3610287-3	MB							
Total Coliforms			0		MPN/100mL		1	02-SEP-21
Escherichia Coli			0		MPN/100mL		1	02-SEP-21

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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.



L2634851-COFC

Report To		Company: Manitoba Water Services Board (W157)		Contact: Angela Meier		Address: PO Box 217 St. Eustache, MB R0H 1H0		Phone: 204-353-4055 Fax: 204-353-4068		<input checked="" type="checkbox"/> Site <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input checked="" type="checkbox"/> Fax Email 1: cartierwtp@crwc.ca Email 2: kale.black@gov.mb.ca Marc.Balcaen@gov.mb.ca Email 3: angela.meier@gov.mb.ca Email 4: pastorind@ae.ca		Service Requested (Rush for routine analysis subject to availability) <input type="checkbox"/> Regular (Standard Turnaround Times - Business Days) <input type="checkbox"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input checked="" type="checkbox"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="checkbox"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT	
Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Client / Project Information Job #: W157 PO / AFE: LSD: Quote #:		Please indicate below Filtered, Preserved or both (F, P, F/P)								Number of Containers	
Lab Work Order # _____ (lab use only)		ALS Contact: S.Sawatzky		Sampler: <i>TWH</i>									
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	TC & EC								
	RM Office <i>Shop</i> F: 1.38 T: 1.59	02-09-21	8:50am	Water	X					1			
	Fannystelle Reservoir Incoming F: 1.33 T: 1.46	02-09-21	6:49am	Water	X					1			
	Elie Reservoir Incoming F: 1.62 T: 1.83	02-09-21	7:46am	Water	X					1			
	Elie Reservoir Outgoing F: 1.55 T: 1.72	02-09-21	7:40am	Water	X					1			
	Elmbank Booster Incoming F: 1.49 T: 1.65	02-09-21	7:18am	Water	X					1			
Special Instructions / Regulations with water Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details													
Failure to complete 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:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:			
<i>TWH</i>	03-09-21	9:45am	O.A.	2/9/21	9:53am	19.4°C				Yes / No ? If Yes add SIF			

RUSH

Emergency Call Back - 204-353-4055 (Grant McGorman)