

Manitoba Water Services Board ATTN: ANGELA MEIER PO Box 217 St. Eustache MB R0H 1H0 Date Received:01-SEP-21Report Date:02-SEP-21 13:31 (MT)Version:FINAL

Client Phone: 204-353-4055

Certificate of Analysis

Lab Work Order #:

Project P.O. #: Job Reference: C of C Numbers: Legal Site Desc: **L2634288** NOT SUBMITTED W157

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Hua Wo Chemistry Laboratory Manager

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L2634288 CONTD.... PAGE 2 of 3 Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
1 2634288-1 PM SHOP							
Sampled By: GM on 31-AUG-21							
Matrix: WATER							
Miscellaneous Parameters							
Chlorine Free Client Supplied	1.48		0.010	mg/L		02-SEP-21	R5575699
Chlorine Total Client Supplied	1.62		0.010	mg/L		02-SEP-21	R5575699
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		01-SEP-21	R5575177
Escherichia Coli	0		0	MPN/100mL		01-SEP-21	R5575177
L2634288-2 FANNYSTELLE RESERVOIR INCOMINC	3						
Sampled By: GM on 31-AUG-21							
Matrix: WATER							
Miscellaneous Parameters	4.00						D
Chlorine Free Client Supplied	1.32		0.010	mg/∟		02-SEP-21	R5575699
Tatal California and E cali	1.49		0.010	mg/L		02-SEP-21	R5575699
Total Coliform and E.coli Total Coliforms	0		0	MPN/100ml		01-SEP-21	R5575177
Escherichia Coli	0		0	MPN/100mL		01-SEP-21	R5575177
L2634288-3 ELIE RESERVOIR INCOMING			-				
Sampled By: GM on 31-AUG-21							
Matrix: WATER							
Miscellaneous Parameters							
Chlorine Free Client Supplied	1.61		0.010	mg/L		02-SEP-21	R5575699
Chlorine Total Client Supplied	1.81		0.010	mg/L		02-SEP-21	R5575699
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		01-SEP-21	R5575177
Escherichia Coli	0		0	MPN/100mL		01-SEP-21	R5575177
L2634288-4 ELIE RESERVOIR OUTGOING							
Sampled By: GM on 31-AUG-21							
Matrix: WATER							
Miscellaneous Parameters							D
Chlorine Free Client Supplied	1.47		0.010	mg/L		02-SEP-21	R5575699
	1.72		0.010	mg/L		02-SEP-21	R5575699
Total Coliform and E.coli Total Coliforms	0		0	MPN/100ml		01-SEP-21	R5575177
Escherichia Coli	0		0	MPN/100mL		01-SEP-21	R5575177
L 2634288-5 EL MBANK BOOSTER INCOMING							
Sampled By: GM on 31-AUG-21							
Matrix: WATER							
Miscellaneous Parameters							
Chlorine Free Client Supplied	1.50		0.010	mg/L		02-SEP-21	R5575699
Chlorine Total Client Supplied	1.67		0.010	mg/L		02-SEP-21	R5575699
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		01-SEP-21	R5575177
	0		0	MPN/100mL		01-SEP-21	R5575177

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL2-FREE-CLIENT-WP	Water	Chlorine (Free) supplied by client	Supplied by client
CL2-TOTAL-CLIENT-WP	Water	Chlorine (Total) supplied by client	Supplied by client
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.



Quality Control Report

			Workorder:	L263428	2634288 Report Date: 02-		SEP-21	Pa	age 1 of 2
Client:	Manitoba PO Box 2 St. Eusta	Water Servic 217 che MB R0H	es Board I 1H0						
Contact:	ANGELA	MEIER							
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TC,EC-QT51-WF	2	Water							
Batch	R5575177								
WG3609444- Total Coliforr	1 MB ms			0		MPN/100mL		1	01-SEP-21
Escherichia (Coli			0		MPN/100mL		1	01-SEP-21
WG3609444- Total Coliforr	2 MB ms			0		MPN/100mL		1	01-SEP-21
Escherichia (Coli			0		MPN/100mL		1	01-SEP-21
WG3609444-	3 MB								
Total Coliforr	ms			0		MPN/100mL		1	01-SEP-21
Escherichia (Coli			0		MPN/100mL		1	01-SEP-21

Quality Control Report

Workorder: L2634288

Report Date: 02-SEP-21

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 predetermined 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.

Chain of Custody / Analytical Request Form													coç#	¥								
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