CERTIFICATE OF ANALYSIS

Work Order	:	**WP2619747**			
Client	:	**Town of Niverville**	Laboratory	:	ALS Environmental - Winnipeg
Contact	:	Andrew Rempel	Account Manager	:	Riya Gill
Address	:	PO Box 267 Niverville Manitoba Canada R0A 1E0	Address	:	1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	:	204-388-4600 ext 2213	E-mail	:	riya.gill@alsglobal.com
Project	:	----	Telephone	:	+1 204 255 9720
PO	:	----	Date Samples Received	:	28-Oct-2026 12:06
C-O-C number	:	----	Date Analysis Commenced	:	28-Oct-2026
Sampler	:	----	Issue Date	:	04-Nov-2026 16:13
Site	:	Niverville - Analytical			
Quote number	:	2026 Analytical Testing			
No. of samples received	:	3			
No. of samples analysed	:	3			

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Lee McTavish		Metals, Winnipeg, Manitoba
Lee McTavish		Inorganics, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
%	percent
% T/cm	% transmittance per centimetre
AU/cm	absorbance units per centimetre
CU	colour units (1 cu = 1 mg/l pt)
meq/L	milliequivalents per litre
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

<: less than.
>: greater than.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Niverville - Raw ----	Niverville - Treated ----	Niverville - Mid Point ----	----	----
					Client sampling date / time	28-Oct-2026 10:30	28-Oct-2026 10:30	28-Oct-2026 10:45	----	----
						WP2619747-001	WP2619747-002	WP2619747-003	----	----
						Result	Result	Result	----	----
Sample Preparation										
Dissolved carbon filtration location	----	EP358/WP	-	-		lab	lab	----	----	----
Physical Tests										
Absorbance, UV (@ 254nm)	----	E404/WP	0.0050	AU/cm		0.0470	0.182	----	----	----
Alkalinity, bicarbonate (as CaCO3)	----	E290/WP	1.0	mg/L		278	153	----	----	----
Alkalinity, carbonate (as CaCO3)	----	E290/WP	1.0	mg/L		<1.0	<1.0	----	----	----
Alkalinity, hydroxide (as CaCO3)	----	E290/WP	1.0	mg/L		<1.0	<1.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/WP	1.0	mg/L		278	153	----	----	----
Colour, true	----	E329/WP	5.0	CU		<5.0	<5.0	----	----	----
Conductivity	----	E100/WP	2.0	µS/cm		1130	671	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	0.50	mg/L		165	86.3	----	----	----
Langelier index (@ 4°C)	----	EC105A/WP	0.010	-		0.407	-0.183	----	----	----
Langelier index (@ 60°C)	----	EC105A/WP	0.010	-		1.16	0.577	----	----	----
pH	----	E108/WP	0.10	pH units		8.17	8.08	----	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	3.0	mg/L		594	354	----	----	----
Turbidity	----	E121/WP	0.10	NTU		3.12	<0.10	----	----	----
pH, saturation (@ 4°C)	----	EC105A/WP	0.010	pH units		7.76	8.26	----	----	----
Transmittance, UV (@ 254nm)	----	E404/WP	1.0	% T/cm		89.7	65.8	----	----	----
pH, saturation (@ 60°C)	----	EC105A/WP	0.010	pH units		7.01	7.50	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	0.0050	mg/L		0.677	<0.0050	----	----	----
Bromide	24959-67-9	E235.Br-T/WP	0.010	mg/L		0.173	<0.010	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Niverville - Raw ----	Niverville - Treated ----	Niverville - Mid Point ----	----	----
					Client sampling date / time	28-Oct-2026 10:30	28-Oct-2026 10:30	28-Oct-2026 10:45	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2619747-001	WP2619747-002	WP2619747-003	----	----
						Result	Result	Result	----	----
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl-L/WP	0.10	mg/L		178	110	----	----	----
Fluoride	16984-48-8	E235.F/WP	0.020	mg/L		0.823	0.448	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/WP	0.0050	mg/L		<0.0100 DLM	0.229	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/WP	0.0010	mg/L		<0.0020 DLM	<0.0010	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	0.30	mg/L		35.4	17.8	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/WP	0.50	mg/L		1.88	1.18	----	----	----
Carbon, total organic [TOC]	----	E355-L/WP	0.50	mg/L		1.51	0.99	----	----	----
Ion Balance										
Anion sum	----	EC101A/WP	0.10	meq/L		11.4	6.57	----	----	----
Cation sum (total)	----	EC101A/WP	0.10	meq/L		11.8	6.70	----	----	----
Ion balance (cations/anions)	----	EC101A/WP	0.01	%		104	102	----	----	----
Ion balance (APHA)	----	EC101A/WP	0.010	%		1.72	0.980	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/WP	0.0030	mg/L		0.0044	0.0022	0.0023	----	----
Antimony, total	7440-36-0	E420/WP	0.00010	mg/L		Not Detected	Not Detected	0.000014	----	----
Arsenic, total	7440-38-2	E420/WP	0.00010	mg/L		0.00342	0.00190	0.00184	----	----
Barium, total	7440-39-3	E420/WP	0.00010	mg/L		0.0478	0.0267	0.0274	----	----
Beryllium, total	7440-41-7	E420/WP	0.000020	mg/L		0.0000014	Not Detected	0.00000029	----	----
Bismuth, total	7440-69-9	E420/WP	0.000050	mg/L		Not Detected	Not Detected	0.0000040	----	----
Boron, total	7440-42-8	E420/WP	0.010	mg/L		0.564	0.512	0.528	----	----

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Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Niverville - Raw ----	Niverville - Treated ----	Niverville - Mid Point ----	----	----
					Client sampling date / time	28-Oct-2026 10:30	28-Oct-2026 10:30	28-Oct-2026 10:45	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2619747-001	WP2619747-002	WP2619747-003	----	----
						Result	Result	Result	----	----
Total Metals										
Cadmium, total	7440-43-9	E420/WP	0.0000050	mg/L		Not Detected	Not Detected	0.0000013	----	----
Calcium, total	7440-70-2	E420/WP	0.050	mg/L		34.2	17.4	18.0	----	----
Cesium, total	7440-46-2	E420/WP	0.000010	mg/L		0.0000070	0.0000037	0.0000050	----	----
Chromium, total	7440-47-3	E420/WP	0.00050	mg/L		Not Detected	0.000083	0.000065	----	----
Cobalt, total	7440-48-4	E420/WP	0.00010	mg/L		0.00013	0.000051	0.000051	----	----
Copper, total	7440-50-8	E420/WP	0.00050	mg/L		0.00258	0.0132	0.00845	----	----
Iron, total	7439-89-6	E420/WP	0.010	mg/L		0.388	0.0031	0.0068	----	----
Lead, total	7439-92-1	E420/WP	0.000050	mg/L		0.000025	0.000041	0.000204	----	----
Lithium, total	7439-93-2	E420/WP	0.0010	mg/L		0.0545	0.0313	0.0314	----	----
Magnesium, total	7439-95-4	E420/WP	0.0050	mg/L		19.4	10.4	10.2	----	----
Manganese, total	7439-96-5	E420/WP	0.00010	mg/L		0.00774	0.00202	0.00225	----	----
Molybdenum, total	7439-98-7	E420/WP	0.000050	mg/L		0.00389	0.00203	0.00203	----	----
Nickel, total	7440-02-0	E420/WP	0.00050	mg/L		0.00038	0.00028	0.00049	----	----
Phosphorus, total	7723-14-0	E420/WP	0.050	mg/L		0.040	0.267	0.276	----	----
Potassium, total	7440-09-7	E420/WP	0.050	mg/L		10.3	5.71	5.64	----	----
Rubidium, total	7440-17-7	E420/WP	0.00020	mg/L		0.00492	0.00261	0.00275	----	----
Selenium, total	7782-49-2	E420/WP	0.000050	mg/L		Not Detected	Not Detected	Not Detected	----	----
Silicon, total	7440-21-3	E420/WP	0.10	mg/L		5.50	2.97	2.91	----	----
Silver, total	7440-22-4	E420/WP	0.000010	mg/L		Not Detected	0.0000014	0.0000029	----	----
Sodium, total	7440-23-5	E420/WP	0.050	mg/L		187	111	116	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Niverville - Raw ----	Niverville - Treated ----	Niverville - Mid Point ----	----	----
					Client sampling date / time	28-Oct-2026 10:30	28-Oct-2026 10:30	28-Oct-2026 10:45	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2619747-001	WP2619747-002	WP2619747-003	----	----
						Result	Result	Result	----	----
Total Metals										
Strontium, total	7440-24-6	E420/WP	0.00020	mg/L		0.507	0.262	0.269	----	----
Sulfur, total	7704-34-9	E420/WP	0.50	mg/L		14.3	6.88	6.73	----	----
Tellurium, total	13494-80-9	E420/WP	0.00020	mg/L		0.00011	0.000050	0.000058	----	----
Thallium, total	7440-28-0	E420/WP	0.000010	mg/L		Not Detected	Not Detected	Not Detected	----	----
Thorium, total	7440-29-1	E420/WP	0.00010	mg/L		Not Detected	Not Detected	Not Detected	----	----
Tin, total	7440-31-5	E420/WP	0.00010	mg/L		0.000044	Not Detected	0.000026	----	----
Titanium, total	7440-32-6	E420/WP	0.00030	mg/L		0.00099	Not Detected	Not Detected	----	----
Tungsten, total	7440-33-7	E420/WP	0.00010	mg/L		Not Detected	Not Detected	Not Detected	----	----
Uranium, total	7440-61-1	E420/WP	0.000010	mg/L		0.000230	0.000125	0.000120	----	----
Vanadium, total	7440-62-2	E420/WP	0.00050	mg/L		0.00019	0.00013	0.00014	----	----
Zinc, total	7440-66-6	E420/WP	0.0030	mg/L		0.0012	0.0038	0.0092	----	----
Zirconium, total	7440-67-7	E420/WP	0.00020	mg/L		Not Detected	0.000027	0.000026	----	----
Volatile Organic Compounds										
Benzene	71-43-2	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Bromodichloromethane	75-27-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Bromoform	75-25-2	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Chloroform	67-66-3	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Dichloromethane	75-09-2	E611D/WP	0.0010	mg/L		<0.0010	----	----	----	----
Ethylbenzene	100-41-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Niverville - Raw ----	Niverville - Treated ----	Niverville - Mid Point ----	----	----
					Client sampling date / time	28-Oct-2026 10:30	28-Oct-2026 10:30	28-Oct-2026 10:45	----	----
						WP2619747-001	WP2619747-002	WP2619747-003	----	----
						Result	Result	Result	----	----
Volatile Organic Compounds										
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Toluene	108-88-3	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Trichloroethylene	79-01-6	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
Xylene, m+p-	179601-23-1	E611D/WP	0.00040	mg/L		<0.00040	----	----	----	----
Xylene, o-	95-47-6	E611D/WP	0.00030	mg/L		<0.00030	----	----	----	----
Xylenes, total	1330-20-7	E611D/WP	0.00050	mg/L		<0.00050	----	----	----	----
BTEX, total	----	E611D/WP	0.0010	mg/L		<0.0010	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WP	1.0	%		87.8	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WP	1.0	%		101	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

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Quality Control Interpretive Report

Work Order	:	**WP2619747**			
Client	:	Town of Niverville	Laboratory	:	ALS Environmental - Winnipeg
Contact	:	Andrew Rempel	Account Manager	:	Riya Gill
Address	:	PO Box 267 Niverville MB Canada R0A 1E0	Address	:	1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	:	204-388-4600 ext 2213	Telephone	:	+1 204 255 9720
Project	:	----	Date Samples Received	:	28-Oct-2026 12:06
PO	:	----	Issue Date	:	04-Nov-2026 16:03
C-O-C number	:	----			
Sampler	:	----			
Site	:	Niverville - Analytical			
Quote number	:	2026 Analytical Testing			
No. of samples received	:	3			
No. of samples analysed	:	3			

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Water

Evaluation: × = Holding time exceedance; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client sample ID	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
					Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence												
Amber glass total (sulfuric acid)												
Niverville - Raw	001	2933506	E298	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	29-Oct-2026	28 days	1 days	✓
Niverville - Treated	002	2933506	E298	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	29-Oct-2026	28 days	1 days	✓
Anions and Nutrients : Bromide in Water by IC (Trace level)												
HDPE												
Niverville - Raw	001	2930676	E235.Br-T	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Niverville - Treated	002	2930676	E235.Br-T	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Anions and Nutrients : Chloride in Water by IC (Low Level)												
HDPE												
Niverville - Raw	001	2930672	E235.Cl-L	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Niverville - Treated	002	2930672	E235.Cl-L	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Anions and Nutrients : Fluoride in Water by IC												
HDPE												
Niverville - Raw	001	2930671	E235.F	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Niverville - Treated	002	2930671	E235.F	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓

Matrix: Water

Evaluation: × = Holding time exceedance; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client sample ID	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC (Low Level)												
HDPE												
Niverville - Raw	001	2930673	E235.NO3-L	28-Oct-2026	28-Oct-2026	3 days	0 days	✓	28-Oct-2026	3 days	0 days	✓
Niverville - Treated	002	2930673	E235.NO3-L	28-Oct-2026	28-Oct-2026	3 days	0 days	✓	28-Oct-2026	3 days	0 days	✓
Anions and Nutrients : Nitrite in Water by IC (Low Level)												
HDPE												
Niverville - Raw	001	2930674	E235.NO2-L	28-Oct-2026	28-Oct-2026	3 days	0 days	✓	28-Oct-2026	3 days	0 days	✓
Niverville - Treated	002	2930674	E235.NO2-L	28-Oct-2026	28-Oct-2026	3 days	0 days	✓	28-Oct-2026	3 days	0 days	✓
Anions and Nutrients : Sulfate in Water by IC												
HDPE												
Niverville - Raw	001	2930675	E235.SO4	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Niverville - Treated	002	2930675	E235.SO4	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	28-Oct-2026	28 days	0 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)												
Amber glass - dissolved (field filter/sulfuric acid)												
Niverville - Raw	001	2933512	E358-L	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	29-Oct-2026	28 days	1 days	✓
Niverville - Treated	002	2933512	E358-L	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	29-Oct-2026	28 days	1 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)												
Amber glass total (sulfuric acid)												
Niverville - Raw	001	2933494	E355-L	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	29-Oct-2026	28 days	1 days	✓
Niverville - Treated	002	2933494	E355-L	28-Oct-2026	28-Oct-2026	28 days	0 days	✓	29-Oct-2026	28 days	1 days	✓

Matrix: Water

Evaluation: × = Holding time exceedance; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client sample ID	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration												
HDPE												
Niverville - Raw	001	2934919	E290	28-Oct-2026	29-Oct-2026	14 days	1 days	✓	29-Oct-2026	14 days	1 days	✓
Niverville - Treated	002	2934919	E290	28-Oct-2026	29-Oct-2026	14 days	1 days	✓	29-Oct-2026	14 days	1 days	✓
Physical Tests : Colour (True) by Spectrometer (5 CU)												
HDPE												
Niverville - Raw	001	2934037	E329	28-Oct-2026	29-Oct-2026	3 days	1 days	✓	29-Oct-2026	3 days	1 days	✓
Niverville - Treated	002	2934037	E329	28-Oct-2026	29-Oct-2026	3 days	1 days	✓	29-Oct-2026	3 days	1 days	✓
Physical Tests : Conductivity in Water												
HDPE												
Niverville - Raw	001	2934917	E100	28-Oct-2026	29-Oct-2026	28 days	1 days	✓	29-Oct-2026	28 days	1 days	✓
Niverville - Treated	002	2934917	E100	28-Oct-2026	29-Oct-2026	28 days	1 days	✓	29-Oct-2026	28 days	1 days	✓
Physical Tests : pH by Meter												
HDPE												
Niverville - Raw	001	2934918	E108	28-Oct-2026	29-Oct-2026	0.25 hrs	24 hrs	× EHTL	29-Oct-2026	0.25 hrs	24 hrs	× EHTL
Niverville - Treated	002	2934918	E108	28-Oct-2026	29-Oct-2026	0.25 hrs	24 hrs	× EHTL	29-Oct-2026	0.25 hrs	24 hrs	× EHTL
Physical Tests : TDS by Gravimetry (Low Level)												
HDPE												
Niverville - Raw	001	2934725	E162-L	28-Oct-2026	----	----	----		30-Oct-2026	7 days	2 days	✓
Niverville - Treated	002	2934725	E162-L	28-Oct-2026	----	----	----		30-Oct-2026	7 days	2 days	✓

Matrix: Water

Evaluation: × = Holding time exceedance; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client sample ID	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Physical Tests : Turbidity by Nephelometry												
HDPE												
Niverville - Raw	001	2931850	E121	28-Oct-2026	----	----	----		29-Oct-2026	3 days	1 days	✓
Niverville - Treated	002	2931850	E121	28-Oct-2026	----	----	----		29-Oct-2026	3 days	1 days	✓
Physical Tests : UV Absorbance and Transmittance by Spectrometry												
HDPE												
Niverville - Raw	001	2936689	E404	28-Oct-2026	----	----	----		30-Oct-2026	3 days	2 days	✓
Niverville - Treated	002	2936689	E404	28-Oct-2026	----	----	----		30-Oct-2026	3 days	2 days	✓
Total Metals : Total Metals in Water by CRC ICPMS												
HDPE total (nitric acid)												
Niverville - Raw	001	2933810	E420	28-Oct-2026	29-Oct-2026	180 days	1 days	✓	02-Nov-2026	180 days	5 days	✓
Niverville - Treated	002	2933810	E420	28-Oct-2026	29-Oct-2026	180 days	1 days	✓	02-Nov-2026	180 days	5 days	✓
Niverville - Mid Point	003	2933810	E420	28-Oct-2026	29-Oct-2026	180 days	1 days	✓	02-Nov-2026	180 days	5 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS												
Glass vial (sodium bisulfate)												
Niverville - Raw	001	2940448	E611D	28-Oct-2026	02-Nov-2026	14 days	5 days	✓	03-Nov-2026	14 days	6 days	✓

Legend & Qualifier Definitions

EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Water

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method / Lab	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Conductivity in Water	E100 / WP	2934917	1	17	5.9	5.0	✓
pH by Meter	E108 / WP	2934918	0	18	0.0	5.0	×
Turbidity by Nephelometry	E121 / WP	2931850	1	19	5.3	5.0	✓
TDS by Gravimetry (Low Level)	E162-L / WP	2934725	1	20	5.0	5.0	✓
Bromide in Water by IC (Trace level)	E235.Br-T / WP	2930676	0	4	0.0	5.0	×
Chloride in Water by IC (Low Level)	E235.Cl-L / WP	2930672	1	12	8.3	5.0	✓
Fluoride in Water by IC	E235.F / WP	2930671	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L / WP	2930674	1	12	8.3	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L / WP	2930673	1	12	8.3	5.0	✓
Sulfate in Water by IC	E235.SO4 / WP	2930675	1	15	6.7	5.0	✓
Alkalinity Species by Titration	E290 / WP	2934919	0	10	0.0	5.0	×
Ammonia by Fluorescence	E298 / WP	2933506	1	19	5.3	5.0	✓
Colour (True) by Spectrometer (5 CU)	E329 / WP	2934037	1	20	5.0	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L / WP	2933494	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L / WP	2933512	1	20	5.0	5.0	✓
UV Absorbance and Transmittance by Spectrometry	E404 / WP	2936689	1	19	5.3	5.0	✓
Total Metals in Water by CRC ICPMS	E420 / WP	2933810	1	18	5.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D / WP	2940448	0	6	0.0	5.0	×
Laboratory Control Samples (LCS)							
Conductivity in Water	E100 / WP	2934917	1	17	5.9	5.0	✓
pH by Meter	E108 / WP	2934918	1	18	5.6	5.0	✓
Turbidity by Nephelometry	E121 / WP	2931850	1	19	5.3	5.0	✓
TDS by Gravimetry (Low Level)	E162-L / WP	2934725	1	20	5.0	5.0	✓
Bromide in Water by IC (Trace level)	E235.Br-T / WP	2930676	1	4	25.0	5.0	✓
Chloride in Water by IC (Low Level)	E235.Cl-L / WP	2930672	1	12	8.3	5.0	✓
Fluoride in Water by IC	E235.F / WP	2930671	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L / WP	2930674	1	12	8.3	5.0	✓

Matrix: Water

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method / Lab	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Control Samples (LCS)							
Nitrate in Water by IC (Low Level)	E235.NO3-L / WP	2930673	1	12	8.3	5.0	✓
Sulfate in Water by IC	E235.SO4 / WP	2930675	1	15	6.7	5.0	✓
Alkalinity Species by Titration	E290 / WP	2934919	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298 / WP	2933506	1	19	5.3	5.0	✓
Colour (True) by Spectrometer (5 CU)	E329 / WP	2934037	1	20	5.0	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L / WP	2933494	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L / WP	2933512	1	20	5.0	5.0	✓
UV Absorbance and Transmittance by Spectrometry	E404 / WP	2936689	1	19	5.3	5.0	✓
Total Metals in Water by CRC ICPMS	E420 / WP	2933810	1	18	5.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D / WP	2940448	1	6	16.7	5.0	✓
Method Blanks (MB)							
Conductivity in Water	E100 / WP	2934917	1	17	5.9	5.0	✓
Turbidity by Nephelometry	E121 / WP	2931850	1	19	5.3	5.0	✓
TDS by Gravimetry (Low Level)	E162-L / WP	2934725	1	20	5.0	5.0	✓
Bromide in Water by IC (Trace level)	E235.Br-T / WP	2930676	1	4	25.0	5.0	✓
Chloride in Water by IC (Low Level)	E235.Cl-L / WP	2930672	1	12	8.3	5.0	✓
Fluoride in Water by IC	E235.F / WP	2930671	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L / WP	2930674	1	12	8.3	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L / WP	2930673	1	12	8.3	5.0	✓
Sulfate in Water by IC	E235.SO4 / WP	2930675	1	15	6.7	5.0	✓
Alkalinity Species by Titration	E290 / WP	2934919	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298 / WP	2933506	1	19	5.3	5.0	✓
Colour (True) by Spectrometer (5 CU)	E329 / WP	2934037	1	20	5.0	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L / WP	2933494	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L / WP	2933512	1	20	5.0	5.0	✓
UV Absorbance and Transmittance by Spectrometry	E404 / WP	2936689	1	19	5.3	5.0	✓
Total Metals in Water by CRC ICPMS	E420 / WP	2933810	1	18	5.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D / WP	2940448	1	6	16.7	5.0	✓
Matrix Spikes (MS)							
Bromide in Water by IC (Trace level)	E235.Br-T / WP	2930676	0	4	0.0	5.0	×

Matrix: Water

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method / Lab	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Matrix Spikes (MS)							
Chloride in Water by IC (Low Level)	E235.Cl-L / WP	2930672	1	12	8.3	5.0	✓
Fluoride in Water by IC	E235.F / WP	2930671	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L / WP	2930674	1	12	8.3	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L / WP	2930673	1	12	8.3	5.0	✓
Sulfate in Water by IC	E235.SO4 / WP	2930675	1	15	6.7	5.0	✓
Ammonia by Fluorescence	E298 / WP	2933506	1	19	5.3	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L / WP	2933494	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L / WP	2933512	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420 / WP	2933810	1	18	5.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D / WP	2940448	1	6	16.7	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Alkalinity Species by Titration	E290 ALS Environmental - Winnipeg	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Ammonia by Fluorescence	E298 ALS Environmental - Winnipeg	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Bromide in Water by IC (Trace level)	E235.Br-T ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC (Low Level)	E235.Cl-L ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Colour (True) by Spectrometer (5 CU)	E329 ALS Environmental - Winnipeg	Water	APHA 2120 C (mod)	Colour (True Colour) is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using the platinum-cobalt colourimetric method. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.
Conductivity in Water	E100 ALS Environmental - Winnipeg	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
Conductivity Screen (Internal Use Only)	ES100 ALS Environmental - Winnipeg	Water	APHA 2510 (mod)	Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Winnipeg	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO_2. NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Fluoride in Water by IC	E235.F ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Winnipeg	Water	APHA 2340B	"Hardness (as $CaCO_3$), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as $CaCO_3$ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.
Ion Balance using Total Metals	EC101A ALS Environmental - Winnipeg	Water	APHA 1030E	Cation Sum (using total metals), Anion Sum, and Ion Balance are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Minor ions are included where data is present. Ion Balance cannot be calculated accurately for waters with very low electrical conductivity (EC).

Nitrate in Water by IC (Low Level)	E235.NO3-L ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC (Low Level)	E235.NO2-L ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
pH by Meter	E108 ALS Environmental - Winnipeg	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Saturation Index using Laboratory pH (Ca-T)	EC105A ALS Environmental - Winnipeg	Water	APHA 2330B	Langelier Index provides an indication of scale formation potential at a given pH and temperature, and is calculated as per APHA 2330B Saturation Index. Positive values indicate oversaturation with respect to CaCO3. Negative values indicate undersaturation of CaCO3. This calculation uses laboratory pH measurements and provides estimates of Langelier Index at temperatures of 4, 15, 20, 25, 66, and 77°C. Ryznar Stability Index is an alternative index used for scale formation and corrosion potential.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
TDS by Gravimetry (Low Level)	E162-L ALS Environmental - Winnipeg	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Winnipeg	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L ALS Environmental - Winnipeg	Water	APHA 5310 B (mod)	Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion with infrared detection of CO2. Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).
Turbidity by Nephelometry	E121 ALS Environmental - Winnipeg	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
UV Absorbance and Transmittance by Spectrometry	E404 ALS Environmental - Winnipeg	Water	APHA 5910 B (mod)	UV Absorbance is determined by first filtering a sample through a 0.45 micron filter, followed by UV absorbance measurement in a quartz cell at 254 nm. The analysis is carried out without pH adjustment.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Winnipeg	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Preparation Methods	***Method / Lab***	***Matrix***	***Method Reference***	***Method Descriptions***
Preparation for Ammonia	EP298 ALS Environmental - Winnipeg	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Preparation for Autotitrator	EP108-TITR ALS Environmental - Winnipeg	Water		Sample preparation for parameters analysed by Autotitrator

Preparation for Colour	EP329-COL ALS Environmental - Winnipeg	Water		Sample preparation for analysis of colour
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Winnipeg	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon
Preparation for Ion Chromatography	EP235-IC ALS Environmental - Winnipeg	Water		Sample preparation for ion chromatography
Preparation for Total Organic Carbon by Combustion	EP355 ALS Environmental - Winnipeg	Water		Preparation for Total Organic Carbon by Combustion
Total Metals Water Digestion	EP420 ALS Environmental - Winnipeg	Water	EPA 200.2 (mod)	Water samples are digested with HNO3 and HCl to liberate "total recoverable" metals.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Winnipeg	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.

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QUALITY CONTROL REPORT

Work Order	: **WP2619747**		
Client	: Town of Niverville	Laboratory	: ALS Environmental - Winnipeg
Contact	: Andrew Rempel	Account Manager	: Riya Gill
Address	: PO Box 267 Niverville MB Canada R0A 1E0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 204-388-4600 ext 2213	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 28-Oct-2026 12:06
PO	: ----	Date Analysis Commenced	: 28-Oct-2026
C-O-C number	: ----	Issue Date	: 04-Nov-2026 15:43
Sampler	: ----		
Site	: Niverville - Analytical		
Quote number	: 2026 Analytical Testing		
No. of samples received	: 3		
No. of samples analysed	: 3		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Lee McTavish		Winnipeg Inorganics, Winnipeg, Manitoba
Lee McTavish		Winnipeg Metals, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Winnipeg Organics, Winnipeg, Manitoba

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include 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 (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key:

Anonymous=Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number=Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO=Data Quality Objective.
LOR=Limit of Reporting (detection limit).
RPD=Relative Percent Difference
# =Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Drinking Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests(QC Lot: 2934037)											
WP2619717-001	Anonymous	Colour, true	----	E329	5.0	CU	7.7	7.4	0.3	Diff <2x LOR	---
Physical Tests(QC Lot: 2936689)											
WP2619717-001	Anonymous	Absorbance, UV (@ 254nm)	----	E404	0.0050	AU/cm	0.254	0.264	3.86 %	20%	---

Sub-Matrix: Effluent

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests(QC Lot: 2934725)											
WP2616448-001	Anonymous	Solids, total dissolved [TDS]	----	E162-L	15.0	mg/L	1640	1610	2.06 %	20%	---

Sub-Matrix: Surface Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Organic / Inorganic Carbon(QC Lot: 2933494)											
WP2619719-001	Anonymous	Carbon, total organic [TOC]	----	E355-L	0.50	mg/L	14.9	14.9	0.584 %	20%	---

Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests(QC Lot: 2931850)											
WP2619747-001	Niverville - Raw	Turbidity	----	E121	0.10	NTU	3.12	3.02	3.12 %	15%	---
Physical Tests(QC Lot: 2934917)											
WP2619734-001	Anonymous	Conductivity	----	E100	2.0	µS/cm	5.6	5.3	0.3	Diff <2x LOR	---
Anions and Nutrients(QC Lot: 2930671)											
WP2619705-005	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.182	0.171	0.011	Diff <2x LOR	---
Anions and Nutrients(QC Lot: 2930672)											
WP2619705-005	Anonymous	Chloride	16887-00-6	E235.Cl-L	0.10	mg/L	11.2	11.1	1.57 %	20%	---

Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Anions and Nutrients(QC Lot: 2930673)											
WP2619705-005	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0920	0.0889	3.45 %	20%	---
Anions and Nutrients(QC Lot: 2930674)											
WP2619705-005	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	0.0026	0.0025	0.00005	Diff <2x LOR	---
Anions and Nutrients(QC Lot: 2930675)											
WP2619705-005	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	27.4	27.3	0.549 %	20%	---
Anions and Nutrients(QC Lot: 2933506)											
WP2619740-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0100	mg/L	1.42	1.43	0.669 %	20%	---
Organic / Inorganic Carbon(QC Lot: 2933512)											
WP2619695-007	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	12.5	12.6	0.923 %	20%	---
Total Metals(QC Lot: 2933810)											
WP2619721-002	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0186	0.0188	0.0002	Diff <2x LOR	---
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00042	0.00042	0.000002	Diff <2x LOR	---
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00087	0.00082	0.00005	Diff <2x LOR	---
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.00955	0.00933	2.41 %	20%	---
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	---
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Boron, total	7440-42-8	E420	0.010	mg/L	0.214	0.233	8.59 %	20%	---
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0000056	0.0000061	0.0000006	Diff <2x LOR	---
		Calcium, total	7440-70-2	E420	0.050	mg/L	86.9	87.6	0.751 %	20%	---
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000057	0.000059	0.000002	Diff <2x LOR	---
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00041	0.00042	0.000004	Diff <2x LOR	---
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00062	0.00063	0.000010	Diff <2x LOR	---
		Iron, total	7439-89-6	E420	0.010	mg/L	0.040	0.040	0.0005	Diff <2x LOR	---
		Lead, total	7439-92-1	E420	0.000050	mg/L	0.000099	0.000101	0.000001	Diff <2x LOR	---
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0737	0.0761	3.20 %	20%	---
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	43.3	44.0	1.76 %	20%	---
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.120	0.121	0.524 %	20%	---
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00503	0.00508	0.962 %	20%	---
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00318	0.00312	0.00005	Diff <2x LOR	---
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.697	0.685	1.78 %	20%	---
		Potassium, total	7440-09-7	E420	0.050	mg/L	30.7	30.9	0.666 %	20%	---
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.0236	0.0241	2.02 %	20%	---
		Silicon, total	7440-21-3	E420	0.10	mg/L	8.34	8.41	0.919 %	20%	---
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Sodium, total	7440-23-5	E420	0.050	mg/L	172	174	1.56 %	20%	---
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.274	0.274	0.0501 %	20%	---

Sub-Matrix: Water

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals(QC Lot: 2933810)											
		Sulfur, total	7704-34-9	E420	0.50	mg/L	126	129	1.95 %	20%	---
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	---
		Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	0.00011	0.00001	Diff <2x LOR	---
		Titanium, total	7440-32-6	E420	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	---
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.00139	0.00143	2.57 %	20%	---
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00099	0.00097	0.00003	Diff <2x LOR	---
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0205	0.0205	0.000003	Diff <2x LOR	---
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	---

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2931850)						
Turbidity	----	E121	0.1	NTU	<0.10	----
Physical Tests(QC Lot: 2934037)						
Colour, true	----	E329	5	CU	<5.0	----
Physical Tests(QC Lot: 2934725)						
Solids, total dissolved [TDS]	----	E162-L	3	mg/L	<3.0	----
Physical Tests(QC Lot: 2934917)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Physical Tests(QC Lot: 2934918)						
pH	----	E108	----	pH units	----	----
Physical Tests(QC Lot: 2934919)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests(QC Lot: 2936689)						
Absorbance, UV (@ 254nm)	----	E404	0.005	AU/cm	<0.0050	----

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients(QC Lot: 2930671)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients(QC Lot: 2930672)						
Chloride	16887-00-6	E235.Cl-L	0.1	mg/L	<0.10	----
Anions and Nutrients(QC Lot: 2930673)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients(QC Lot: 2930674)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients(QC Lot: 2930675)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients(QC Lot: 2930676)						
Bromide	24959-67-9	E235.Br-T	0.01	mg/L	<0.010	----
Anions and Nutrients(QC Lot: 2933506)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Organic / Inorganic Carbon(QC Lot: 2933494)						
Carbon, total organic [TOC]	----	E355-L	0.5	mg/L	<0.50	----
Organic / Inorganic Carbon(QC Lot: 2933512)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Metals(QC Lot: 2933810)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals(QC Lot: 2933810)						
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----
Volatile Organic Compounds(QC Lot: 2940448)						
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	*CAS Number*	*Method*	*LOR*	*Unit*	*Target Concentration*	*LCS*	*Low*	*High*	*Qualifier*
Physical Tests(QC Lot: 2931850)									
Turbidity	----	E121	0.1	NTU	200 NTU	101	85.0	115	----
Physical Tests(QC Lot: 2934037)									
Colour, true	----	E329	5	CU	250 CU	102	85.0	115	----
Physical Tests(QC Lot: 2934725)									
Solids, total dissolved [TDS]	----	E162-L	3	mg/L	1000 mg/L	93.8	85.0	115	----
Physical Tests(QC Lot: 2934917)									
Conductivity	----	E100	1	µS/cm	1412 µS/cm	98.5	90.0	110	----
Physical Tests(QC Lot: 2934918)									
pH	----	E108	----	pH units	7 pH units	101	98.0	102	----
Physical Tests(QC Lot: 2934919)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	100 mg/L	103	85.0	115	----
Physical Tests(QC Lot: 2936689)									
Absorbance, UV (@ 254nm)	----	E404	0.005	AU/cm	0.266 AU/cm	89.8	85.0	115	----
Anions and Nutrients(QC Lot: 2930671)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	101	90.0	110	----
Anions and Nutrients(QC Lot: 2930672)									
Chloride	16887-00-6	E235.Cl-L	0.1	mg/L	100 mg/L	100	90.0	110	----
Anions and Nutrients(QC Lot: 2930673)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	98.9	90.0	110	----
Anions and Nutrients(QC Lot: 2930674)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	99.3	90.0	110	----
Anions and Nutrients(QC Lot: 2930675)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients(QC Lot: 2930676)									
Bromide	24959-67-9	E235.Br-T	0.01	mg/L	0.5 mg/L	98.0	85.0	115	----
Anions and Nutrients(QC Lot: 2933506)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	97.1	85.0	115	----
Organic / Inorganic Carbon(QC Lot: 2933494)									
Carbon, total organic [TOC]	----	E355-L	0.5	mg/L	8.57 mg/L	99.8	80.0	120	----
Organic / Inorganic Carbon(QC Lot: 2933512)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	106	80.0	120	----
Total Metals(QC Lot: 2933810)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	99.1	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	99.7	80.0	120	----

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Total Metals(QC Lot: 2933810)									
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	101	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	96.1	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	97.3	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	97.0	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	99.5	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	98.8	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	98.1	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	98.4	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	98.1	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	98.9	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	94.8	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	99.0	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	100	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	102	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	101	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	97.3	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	104	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	96.5	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	92.3	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	100	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	92.7	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	99.2	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	104	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	98.1	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	97.5	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	98.2	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	94.8	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	99.9	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	95.8	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	98.3	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	95.2	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	99.6	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	96.7	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	98.5	80.0	120	----

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds(QC Lot: 2940448)									
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	91.3	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	122	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	95.6	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	80.5	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	87.1	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	80.5	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	87.0	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	87.9	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	95.9	70.0	130	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	84.1	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	83.3	70.0	130	----
Volatile Organic Compounds Surrogates(QC Lot: 2940448)									
Bromofluorobenzene, 4-	460-00-4	E611D	1	µg/L	10 µg/L	91.0	70	130	----
Difluorobenzene, 1,4-	540-36-3	E611D	1	µg/L	10 µg/L	95.9	70	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for

Sub-Matrix: Surface Water

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report					Qualifier
					Spike		Recovery (%)	Recovery (%)		
					Concentration	Target	MS	Low	High	
Anions and Nutrients(QC Lot: 2930671)										
WP2619705-005	Anonymous	Fluoride	16984-48-8	E235.F	0.979 mg/L	1 mg/L	97.9	75.0	125	---
Anions and Nutrients(QC Lot: 2930672)										
WP2619705-005	Anonymous	Chloride	16887-00-6	E235.Cl-L	102 mg/L	100 mg/L	102	75.0	125	---
Anions and Nutrients(QC Lot: 2930673)										
WP2619705-005	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.53 mg/L	2.5 mg/L	101	75.0	125	---

Sub-Matrix: Surface Water

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Anions and Nutrients(QC Lot: 2930674)										
WP2619705-005	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.498 mg/L	0.5 mg/L	99.5	75.0	125	---
Anions and Nutrients(QC Lot: 2930675)										
WP2619705-005	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	101 mg/L	100 mg/L	101	75.0	125	---
Anions and Nutrients(QC Lot: 2933506)										
WP2619740-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND	----	ND	75.0	125	---
Organic / Inorganic Carbon(QC Lot: 2933494)										
WP2619719-002	Anonymous	Carbon, total organic [TOC]	----	E355-L	ND	----	ND	70.0	130	---
Organic / Inorganic Carbon(QC Lot: 2933512)										
WP2619695-008	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	ND	----	ND	70.0	130	---
Total Metals(QC Lot: 2933810)										
WP2619721-002	Anonymous	Aluminum, total	7429-90-5	E420	0.208 mg/L	0.2 mg/L	104	70.0	130	---
		Antimony, total	7440-36-0	E420	0.0214 mg/L	0.02 mg/L	107	70.0	130	---
		Arsenic, total	7440-38-2	E420	0.0209 mg/L	0.02 mg/L	105	70.0	130	---
		Barium, total	7440-39-3	E420	0.0201 mg/L	0.02 mg/L	100	70.0	130	---
		Beryllium, total	7440-41-7	E420	0.0401 mg/L	0.04 mg/L	100	70.0	130	---
		Bismuth, total	7440-69-9	E420	0.00887 mg/L	0.01 mg/L	88.7	70.0	130	---
		Boron, total	7440-42-8	E420	ND	----	ND	70.0	130	---
		Cadmium, total	7440-43-9	E420	0.00390 mg/L	0.004 mg/L	97.5	70.0	130	---
		Calcium, total	7440-70-2	E420	ND	----	ND	70.0	130	---
		Cesium, total	7440-46-2	E420	0.0103 mg/L	0.01 mg/L	103	70.0	130	---
		Chromium, total	7440-47-3	E420	0.0413 mg/L	0.04 mg/L	103	70.0	130	---
		Cobalt, total	7440-48-4	E420	0.0200 mg/L	0.02 mg/L	99.8	70.0	130	---
		Copper, total	7440-50-8	E420	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	---
		Iron, total	7439-89-6	E420	2.03 mg/L	2 mg/L	101	70.0	130	---
		Lead, total	7439-92-1	E420	0.0184 mg/L	0.02 mg/L	92.1	70.0	130	---
		Lithium, total	7439-93-2	E420	0.103 mg/L	0.1 mg/L	103	70.0	130	---
		Magnesium, total	7439-95-4	E420	ND	----	ND	70.0	130	---
		Manganese, total	7439-96-5	E420	ND	----	ND	70.0	130	---
		Molybdenum, total	7439-98-7	E420	0.0222 mg/L	0.02 mg/L	111	70.0	130	---
		Nickel, total	7440-02-0	E420	0.0387 mg/L	0.04 mg/L	96.8	70.0	130	---
		Phosphorus, total	7723-14-0	E420	10.6 mg/L	10 mg/L	106	70.0	130	---
		Potassium, total	7440-09-7	E420	ND	----	ND	70.0	130	---
		Rubidium, total	7440-17-7	E420	ND	----	ND	70.0	130	---
		Silicon, total	7440-21-3	E420	10.1 mg/L	10 mg/L	101	70.0	130	---
		Silver, total	7440-22-4	E420	0.00391 mg/L	0.004 mg/L	97.7	70.0	130	---
		Sodium, total	7440-23-5	E420	ND	----	ND	70.0	130	---
		Strontium, total	7440-24-6	E420	ND	----	ND	70.0	130	---

Sub-Matrix: **Surface Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Total Metals(QC Lot: 2933810)										
		Sulfur, total	7704-34-9	E420	ND	----	ND	70.0	130	---
		Tellurium, total	13494-80-9	E420	0.0410 mg/L	0.04 mg/L	103	70.0	130	---
		Thallium, total	7440-28-0	E420	0.00359 mg/L	0.004 mg/L	89.9	70.0	130	---
		Thorium, total	7440-29-1	E420	0.0193 mg/L	0.02 mg/L	96.7	70.0	130	---
		Tin, total	7440-31-5	E420	0.0214 mg/L	0.02 mg/L	107	70.0	130	---
		Titanium, total	7440-32-6	E420	0.0437 mg/L	0.04 mg/L	109	70.0	130	---
		Tungsten, total	7440-33-7	E420	0.0208 mg/L	0.02 mg/L	104	70.0	130	---
		Uranium, total	7440-61-1	E420	0.00380 mg/L	0.004 mg/L	95.0	70.0	130	---
		Vanadium, total	7440-62-2	E420	0.107 mg/L	0.1 mg/L	107	70.0	130	---
		Zinc, total	7440-66-6	E420	0.367 mg/L	0.4 mg/L	91.9	70.0	130	---
		Zirconium, total	7440-67-7	E420	0.0457 mg/L	0.04 mg/L	114	70.0	130	---
Volatile Organic Compounds(QC Lot: 2940448)										
WP2619864-005	Anonymous	Benzene	71-43-2	E611D	105 µg/L	100 µg/L	105	60.0	140	---
		Bromodichloromethane	75-27-4	E611D	114 µg/L	100 µg/L	114	60.0	140	---
		Bromoform	75-25-2	E611D	130 µg/L	100 µg/L	130	60.0	140	---
		Chloroform	67-66-3	E611D	111 µg/L	100 µg/L	111	60.0	140	---
		Dibromochloromethane	124-48-1	E611D	117 µg/L	100 µg/L	117	60.0	140	---
		Dichloromethane	75-09-2	E611D	108 µg/L	100 µg/L	108	60.0	140	---
		Ethylbenzene	100-41-4	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	100 µg/L	100 µg/L	100	60.0	140	---
		Tetrachloroethylene	127-18-4	E611D	118 µg/L	100 µg/L	118	60.0	140	---
		Toluene	108-88-3	E611D	90.8 µg/L	100 µg/L	90.8	60.0	140	---
		Trichloroethane, 1,1,1-	71-55-6	E611D	101 µg/L	100 µg/L	101	60.0	140	---
		Trichloroethane, 1,1,2-	79-00-5	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140	---
		Trichloroethylene	79-01-6	E611D	111 µg/L	100 µg/L	111	60.0	140	---
		Xylene, m+p-	179601-23-1	E611D	188 µg/L	200 µg/L	94.1	60.0	140	---
		Xylene, o-	95-47-6	E611D	94.4 µg/L	100 µg/L	94.4	60.0	140	---
Volatile Organic Compounds Surrogates(QC Lot: 2940448)										
		Bromofluorobenzene, 4-	460-00-4	E611D	9.3 µg/L	10 µg/L	92.6	70.0	130	---
		Difluorobenzene, 1,4-	540-36-3	E611D	9.7 µg/L	10 µg/L	97.2	70.0	130	---

Chain of Custody (COC) / Analytical Request Form

COC Number: 23 - 1168592

Page of

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Canada Toll Free: 1 800 668 9878

Environmental Division Winnipeg
Work Order Reference
WP2619747

Telephone : +1 204 255 9720

Report To	Contact and company name below will appear on the final report
Company:	Andrew Rempel
Contact:	Town of Niverville
Phone:	204-388-4600 ext 2213
	Company address below will appear on the final report
Street:	329 Bronstone Drive
City/Province:	Niverville MB
Postal Code:	R0A 1E0
Invoice To	Same as Report To ☒ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Reports / Recipients

Select Report Format: ☒ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax utilities@wheryoubelong.ca
Email 2 Ryan@wheryoubelong.ca
Email 3

Invoice Recipients

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accounts@wheryoubelong.ca
Email 2

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.
Additional fees may apply to rush requests on weekend
Date and Time Required for all E&P TATs: 05
For all tests with rush TATs requested, please co

Project Information		Oil and Gas Required Fields (client use)	
ALS Client Code / QUOTE #:		AFE/Cost Center:	PO#
Job / Project #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	MB-CH-PWS-V2013	MB-MET-T-CCMS	MB-VOC-PWS-V2013	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	Niverville - RAW (6)	28-Oct-26	10:30am	Grab		X		X			
	Niverville - TREATED (4)	28-Oct-26	10:30am	Grab		X					
	Niverville - MID POINT (1)	28-Oct-26	10:45am	Grab			X				

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO
Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Same analysis as anual DWO chemistry sets.

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
14.5							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Andrew Rempel	Date:	Time:	Received by: Mel	Date: 10/28/2026	Time: 12:06	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JAN 2023 FRONT

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.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**