



Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
241516

- FINAL REPORT -

Prepared For: Town of Fort Smith

Address: P.O. Box 147
Fort Smith, NT
X0E 0P0

Attn: Jesse Foote

Facsimile: (867) 872-3166

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Bradley Koswan'.

Bradley Koswan
Quality Assurance Officer

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) to ISO/IEC 17025 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: 17-Oct-24

Print Date: 17-Oct-24



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Taiga Batch No.:
241516

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **567-1**

Taiga Sample ID: **001**

Client Project: MV20011L3-0001

Sample Type: Potable

Received Date: 26-Sep-24

Sampling Date: 25-Sep-24

Sampling Time: 13:00

Location: 567-1

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
pH	7.16		pH units	26-Sep-24	TEL058	
<u>Major Ions</u>						
Fluoride	< 0.1	0.1	mg/L	27-Sep-24	TEL055	
<u>Microbiology</u>						
Coliforms, Total	< 1.0	1	MPN/100ml	26-Sep-24	TEL053	
Escherichia coli	< 1.0	1	MPN/100ml	26-Sep-24	TEL053	

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Taiga Batch No.:

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **567-1**

Taiga Sample ID: **002**

Client Project: MV20011L3-0001

Sample Type: Non-potable

Received Date: 26-Sep-24

Sampling Date: 25-Sep-24

Sampling Time: 13:00

Location: 567-1

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
Microbiology						
Coliforms, Total	133	1	MPN/100ml	26-Sep-24	TEL053	
Escherichia coli	< 1.0	1	MPN/100ml	26-Sep-24	TEL053	

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Taiga Batch No.:

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **567-2**

Taiga Sample ID: **003**

Client Project: MV20011L3-0001

Sample Type: Sewage

Received Date: 26-Sep-24

Sampling Date: 25-Sep-24

Sampling Time: 13:00

Location: 567-2

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	15.7	0.105	mg/L	03-Oct-24	TEL068	210
Biochemical Oxygen Demand	43	2	mg/L	26-Oct-24	TEL019	
CBOD	67	2	mg/L	26-Oct-24	TEL019	
Phosphorous, Total	4.47	0.008	mg/L	02-Oct-24	TEL069	210
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	184	0.4	mg/L	26-Sep-24	TEL060	
pH	7.97		pH units	26-Sep-24	TEL058	
Solids, Total Suspended	44	3	mg/L	08-Oct-24	TEL008	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.19	0.01	mg/L	27-Sep-24	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	5300	100	CFU/100mL	26-Sep-24	TEL017	210
<u>Organics</u>						
Oil and Grease, visible	Non-visible			26-Sep-24	Visual Exam	

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **567-6**

Taiga Sample ID: **004**

Client Project: MV20011L3-0001

Sample Type: River Water

Received Date: 26-Sep-24

Sampling Date: 25-Sep-24

Sampling Time: 13:00

Location: 567-6

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.110	0.005	mg/L	03-Oct-24	TEL068	
Biochemical Oxygen Demand	3	2	mg/L	26-Oct-24	TEL019	
CBOD	2	2	mg/L	26-Oct-24	TEL019	
Phosphorous, Total	0.202	0.002	mg/L	02-Oct-24	TEL069	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	74.7	0.4	mg/L	26-Sep-24	TEL060	
pH	7.52		pH units	26-Sep-24	TEL058	
Solids, Total Suspended	29	3	mg/L	08-Oct-24	TEL008	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	27-Sep-24	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	96	1	CFU/100mL	26-Sep-24	TEL017	
<u>Organics</u>						
Oil and Grease, visible	Non-visible			26-Sep-24	Visual Exam	

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 567-4

Taiga Sample ID: 005

Client Project: MV20011L3-0001

Sample Type: Groundwater

Received Date: 26-Sep-24

Sampling Date: 25-Sep-24

Sampling Time: 13:00

Location: 567-4

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	2	2	mg/L	26-Oct-24	TEL019	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	744	0.4	µS/cm	26-Sep-24	TEL059	
pH	8.26		pH units	26-Sep-24	TEL058	
Solids, Total Suspended	< 3	3	mg/L	08-Oct-24	TEL008	
<u>Major Ions</u>						
Sulphate	19	1	mg/L	27-Sep-24	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	28	1	CFU/100mL	26-Sep-24	TEL017	21
<u>Organics</u>						
Oil and Grease, visible	Non-visible			26-Sep-24	Visual Exam	
<u>Trace Metals, Total</u>						
Arsenic	1.4	0.2	µg/L	10-Oct-24	TEL035	
Cadmium	< 0.04	0.04	µg/L	10-Oct-24	TEL035	
Chromium	< 0.1	0.1	µg/L	10-Oct-24	TEL035	
Cobalt	0.2	0.1	µg/L	10-Oct-24	TEL035	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **567-4**

Taiga Sample ID: **005**

Copper	0.6	0.2	µg/L	10-Oct-24	TEL035
Iron	1300	5	µg/L	10-Oct-24	TEL035
Lead	< 0.1	0.1	µg/L	10-Oct-24	TEL035
Mercury	0.04	0.01	µg/L	10-Oct-24	TEL035
Nickel	1.1	0.1	µg/L	10-Oct-24	TEL035
Zinc	0.8	0.4	µg/L	10-Oct-24	TEL035

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **567-4**

Taiga Sample ID: **005**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

- 21** *Matrix interference; result uncertain.*
- 210** *Detection limit adjusted for required dilution.*

*** 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

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