

CERTIFICATE OF ANALYSIS

You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

REPORTED TO Prince George, City of - Pump Station

> 1100 Patricia Boulevard Prince George, BC V2L 3v9

ATTENTION Cheyenne Magee **WORK ORDER** 23D1935

PO NUMBER

2023-04-19 09:45 / 11.1°C **RECEIVED / TEMP** Raw Water - PW 605 **REPORTED** 2023-05-08 13:33 **PROJECT**

No Number **PROJECT INFO** [info] **COC NUMBER**

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you working enjoy with fun and our engaged team the more members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

Through research, regulation and instrumentation, knowledge, are your analytical centre the knowledge technical you BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at pmand@caro.ca

Authorized By:

Preena Mand

Client Service Team Lead



Prince George, City of - Pump Station

TEST RESULTS

REPORTED TO

Lithium, dissolved

Mercury, dissolved

Nickel, dissolved

Magnesium, dissolved

Manganese, dissolved

Molybdenum, dissolved

Phosphorus, dissolved

Potassium, dissolved

Selenium, dissolved

Silicon, dissolved

Silver, dissolved

Sulfur, dissolved

Sodium, dissolved

Strontium, dissolved

Tellurium, dissolved

PROJECT Raw Water - PW 60	5		REPORTED	2023-05-0	8 13:33
Analyte	Result	RL	Units	Analyzed	Qualifie
WT# DBC0 - PW605 (23D1935-01) Ma	trix: Water Sampled: 2023-0	4-18 13:30			
Anions					
Bromide	< 0.10	0.10	mg/L	2023-04-20	
Chloride	8.08	0.10	mg/L	2023-04-20	
Fluoride	< 0.10	0.10	mg/L	2023-04-20	
Nitrate (as N)	0.163	0.010	mg/L	2023-04-20	
Nitrite (as N)	< 0.010	0.010	mg/L	2023-04-20	
Phosphate (as P)	< 0.0050	0.0050	mg/L	2023-04-20	
Sulfate	9.3	1.0	mg/L	2023-04-20	
Calculated Parameters					
Total Trihalomethanes	0.0152	0.00400	mg/L	N/A	
Hardness, Dissolved (as CaCO3)	109	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	0.163	0.0100	mg/L	N/A	
Nitrogen, Total	0.215	0.0500	mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	0.0050	mg/L	2023-04-23	
Antimony, dissolved	< 0.00020	0.00020	mg/L	2023-04-23	
Arsenic, dissolved	< 0.00050	0.00050	mg/L	2023-04-23	
Barium, dissolved	0.0217	0.0050	mg/L	2023-04-23	
Beryllium, dissolved	< 0.00010	0.00010	mg/L	2023-04-23	
Bismuth, dissolved	< 0.00010	0.00010	mg/L	2023-04-23	
Boron, dissolved	< 0.0500	0.0500	mg/L	2023-04-23	
Cadmium, dissolved	0.000012	0.000010	mg/L	2023-04-23	
Calcium, dissolved	28.1	0.20	mg/L	2023-04-23	
Chromium, dissolved	< 0.00050	0.00050	mg/L	2023-04-23	
Cobalt, dissolved	< 0.00010	0.00010	mg/L	2023-04-23	
Copper, dissolved	0.00550	0.00040	mg/L	2023-04-23	
Iron, dissolved	< 0.010	0.010	mg/L	2023-04-23	
Lead, dissolved	0.00027	0.00020	mg/L	2023-04-23	

2023-04-23

2023-04-23

2023-04-23

2023-04-24

2023-04-23

2023-04-23

2023-04-23 2023-04-23

2023-04-23

2023-04-23

2023-04-23

2023-04-23

2023-04-23

2023-04-23 2023-04-23

23D1935

WORK ORDER

0.00010 mg/L

0.00020 mg/L

0.000010 mg/L

0.00010 mg/L

0.00040 mg/L

0.00050 mg/L

0.000050 mg/L

0.050 mg/L

0.10 mg/L

1.0 mg/L

0.10 mg/L

3.0 mg/L

0.0010 mg/L

0.00050 mg/L

0.010 mg/L

0.00077

0.0128

0.00157

0.00060

< 0.050

0.00134

< 0.000050

< 0.00050

1.32

5.3

7.69

0.131

3.1

< 0.000010

9.33



TEST RESULTS

REPORTED TO Prince George, City Raw Water - PW 60	•		WORK ORDER REPORTED	23D1935 2023-05-0	8 13:33
Analyte	Result	RL	Units	Analyzed	Qualifier
WT# DBC0 - PW605 (23D1935-01) Ma	trix: Water Sampled: 20	23-04-18 13:30, Continued			
Dissolved Metals, Continued					
Thallium, dissolved	< 0.000020	0.000020	mg/L	2023-04-23	
Thorium, dissolved	< 0.00010	0.00010	mg/L	2023-04-23	
Tin, dissolved	< 0.00020	0.00020	mg/L	2023-04-23	
Titanium, dissolved	< 0.0050	0.0050	mg/L	2023-04-23	
Tungsten, dissolved	< 0.0010	0.0010	mg/L	2023-04-23	
Uranium, dissolved	0.000251	0.000020	mg/L	2023-04-23	
Vanadium, dissolved	< 0.0050	0.0050		2023-04-23	
Zinc, dissolved	0.0064	0.0040		2023-04-23	
Zirconium, dissolved	< 0.00010	0.00010		2023-04-23	
General Parameters					
Adsorbable Organic Halides	204	50	μg/L	2023-04-27	
Alkalinity, Total (as CaCO3)	97.5		mg/L	2023-04-20	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0		mg/L	2023-04-20	
Alkalinity, Bicarbonate (as CaCO3)	97.5		mg/L	2023-04-20	
Alkalinity, Carbonate (as CaCO3)	< 1.0		mg/L	2023-04-20	
Alkalinity, Hydroxide (as CaCO3)	< 1.0		mg/L	2023-04-20	
Ammonia, Total (as N)	< 0.050	0.050		2023-04-20	
Carbon, Total Organic	1.34		mg/L	2023-04-20	
Nitrogen, Total Kjeldahl	0.052	0.050		2023-04-21	
Solids, Total Suspended	< 2.0		mg/L	2023-04-21	
Microbiological Parameters					
Coliforms, Total	< 1	1	CFU/100 mL	2023-04-19	
Coliforms, Fecal	< 1			2023-04-19	
E. coli	<1		CFU/100 mL	2023-04-19	
	· i	<u>'</u>	J		
Total Metals					
Aluminum, total	< 0.0050	0.0050		2023-04-24	
Antimony, total	< 0.00020	0.00020		2023-04-24	
Arsenic, total	< 0.00050	0.00050		2023-04-24	
Barium, total	0.0215	0.0050		2023-04-24	
Beryllium, total	< 0.00010	0.00010		2023-04-24	
Bismuth, total	< 0.00010	0.00010	mg/L	2023-04-24	
Boron, total	< 0.0500	0.0500	mg/L	2023-04-24	
Cadmium, total	0.000013	0.000010	mg/L	2023-04-24	
Calcium, total	27.9	0.20	mg/L	2023-04-24	
Chromium, total	< 0.00050	0.00050	mg/L	2023-04-24	
Cobalt, total	< 0.00010	0.00010	mg/L	2023-04-24	<u> </u>
Copper, total	0.0109	0.00040	mg/L	2023-04-24	
Iron, total	0.052	0.010	mg/L	2023-04-24	
Lead, total	0.00037	0.00020	mg/L	2023-04-24	
Lithium, total	0.00078	0.00010	mg/L	2023-04-24	
Magnesium, total	9.05	0.010	mg/L	2023-04-24	



TEST RESULTS

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 605

WORK ORDER REPORTED 23D1935

EPORTED 2023-05-08 13:33

Analyte	Result	RL	Units	Analyzed	Qualifier
WT# DBC0 - PW605 (23D1935-01) M	atrix: Water Sampled: 2023-0	04-18 13:30, Continued			
Total Metals, Continued					
Manganese, total	0.0153	0.00020	mg/L	2023-04-24	
Mercury, total	< 0.000010	0.000010	mg/L	2023-04-24	
Molybdenum, total	0.00161	0.00010	mg/L	2023-04-24	
Nickel, total	0.00124	0.00040	mg/L	2023-04-24	
Phosphorus, total	< 0.050	0.050	mg/L	2023-04-24	
Potassium, total	1.29	0.10	mg/L	2023-04-24	
Selenium, total	0.00129	0.00050	mg/L	2023-04-24	
Silicon, total	5.1	1.0	mg/L	2023-04-24	
Silver, total	< 0.000050	0.000050	mg/L	2023-04-24	
Sodium, total	7.24	0.10	mg/L	2023-04-24	
Strontium, total	0.132	0.0010	mg/L	2023-04-24	
Sulfur, total	3.0	3.0	mg/L	2023-04-24	
Tellurium, total	< 0.00050	0.00050	mg/L	2023-04-24	
Thallium, total	< 0.000020	0.000020	mg/L	2023-04-24	
Thorium, total	< 0.00010	0.00010	mg/L	2023-04-24	
Tin, total	< 0.00020	0.00020	mg/L	2023-04-24	
Titanium, total	< 0.0050	0.0050	mg/L	2023-04-24	
Tungsten, total	< 0.0010	0.0010	mg/L	2023-04-24	
Uranium, total	0.000282	0.000020	mg/L	2023-04-24	
Vanadium, total	< 0.0050	0.0050	mg/L	2023-04-24	
Zinc, total	0.0082	0.0040	mg/L	2023-04-24	
Zirconium, total	< 0.00010	0.00010	mg/L	2023-04-24	
Volatile Organic Compounds (VOC)					
Bromodichloromethane	0.0018	0.0010	mg/L	2023-04-24	
Bromoform	< 0.0010	0.0010		2023-04-24	
Chloroform	0.0134	0.0010		2023-04-24	
Dibromochloromethane	< 0.0010	0.0010		2023-04-24	
Surrogate: Toluene-d8	114	70-130	%	2023-04-24	
Surrogate: 4-Bromofluorobenzene	99	70-130	%	2023-04-24	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 605

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REPORTED 2023-05-08 13:33

Analysis Description	Method Ref.	Technique	Accredited	Location
Adsorbable Organic Halogen in Water	PAPTAC/ISO - low level	Adsorption, Coulometric Titration		Sublet
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Coliforms, Fecal in Water	SM 9222 D (2015)	Membrane Filtration / m-FC Agar	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
Solids, Total Suspended in Water	Solids in Water, Filtered / SM 2540 D* (2020)	Solids in Water, Filtered / Gravimetry (Dried at 103-105C)	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL Reporting Limit (default)

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

CFU/100 mL Colony Forming Units per 100 millilitres

 $\begin{array}{ll} \text{mg/L} & \text{Milligrams per litre} \\ \text{\mug/L} & \text{Micrograms per litre} \end{array}$

EPA United States Environmental Protection Agency Test Methods

PAPTAC Pulp and Paper Technical Association of Canada Standard Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 605

WORK ORDER
REPORTED

23D1935

2023-05-08 13:33

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted red. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:pmand@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.



PROJECT

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO Prince George, City of - Pump Station

Raw Water - PW 605

WORK ORDER REPORTED 23D1935 2023-05-08 13:33

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (Blk): A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup)**: An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- Matrix Spike (MS): A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.
 Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
Anions, Batch B3D1781									
Blank (B3D1781-BLK1)			Prepared	l: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Phosphate (as P)	< 0.0050	0.0050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B3D1781-BLK2)			Prepared	l: 2023-04-2	20, Analyze	ed: 2023-0	04-20		
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Phosphate (as P)	< 0.0050	0.0050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B3D1781-BS1)			Prepared	l: 2023-04-2	20, Analyze	ed: 2023-0	04-20		
Bromide	4.04	0.10 mg/L	4.00		101	85-115			
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	4.09	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	3.96	0.010 mg/L	4.00		99	90-110			
Nitrite (as N)	2.06	0.010 mg/L	2.00		103	85-115			
Phosphate (as P)	0.960	0.0050 mg/L	1.00		96	80-120			
Sulfate	16.1	1.0 mg/L	16.0		101	90-110			
LCS (B3D1781-BS2)			Prepared	l: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Bromide	4.09	0.10 mg/L	4.00		102	85-115			
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	4.15	0.10 mg/L	4.00		104	88-108			
Nitrate (as N)	3.95	0.010 mg/L	4.00		99	90-110			
Nitrite (as N)	2.09	0.010 mg/L	2.00		104	85-115			
Phosphate (as P)	1.07	0.0050 mg/L	1.00		107	80-120			
Sulfate	16.2	1.0 mg/L	16.0		101	90-110			
Duplicate (B3D1781-DUP1)	Sou	ırce: 23D1935-01	Prepared	I: 2023-04-2	20, Analyze	ed: 2023-0	04-20		
Bromide	< 0.10	0.10 mg/L		< 0.10				_10_	



24.7

3.94

4.31

1.72

0.814

REPORTED TO PROJECT			ation			WORK ORDER REPORTED		23D1935 2023-05-08		13:33	
Analyte		Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier	
Anions, Batch B3L	D1781, Continued	Soi	ırce: 23D1935-01	Prepared	d: 2023-04-2	20, Analyze	d: 2023-0	04-20			
Chloride	<i>,</i>	7.99	0.10 mg/L		8.08			1	10		
Fluoride		< 0.10	0.10 mg/L		< 0.10				10		
Nitrate (as N)		0.153	0.010 mg/L		0.163			6	10		
Nitrite (as N)		< 0.010	0.010 mg/L		< 0.010				15		
Phosphate (as P)		< 0.0050	0.0050 mg/L		< 0.0050				20		
Sulfate		9.2	1.0 mg/L		9.3			1	10		
Matrix Spike (B3D1781-MS1)		Sou	ırce: 23D1935-01	Prepared	d: 2023-04-2	20, Analyze	d: 2023-0	04-20			
Bromide		3.77	0.10 mg/L	4.00	< 0.10	94	80-120				

16.0

4.00

4.00

2.00

1.00

8.08

< 0.10

0.163

< 0.010

< 0.0050

9.3

104

98

104

86

81

75-125

75-125

75-125

80-120

70-130

75-125

0.10 mg/L

0.10 mg/L

0.010 mg/L

0.010 mg/L

1.0 mg/L

0.0050 mg/L

Dissolved Metals, Batch B3D2049

Chloride

Fluoride

Sulfate

Nitrate (as N)

Nitrite (as N)

Phosphate (as P)

Blank (B3D2049-BLK1)			Prepared: 2023-04-23, Analyzed: 2023-04-23
Aluminum, dissolved	< 0.0050	0.0050 mg/L	
Antimony, dissolved	< 0.00020	0.00020 mg/L	
Arsenic, dissolved	< 0.00050	0.00050 mg/L	
Barium, dissolved	< 0.0050	0.0050 mg/L	
Beryllium, dissolved	< 0.00010	0.00010 mg/L	
Bismuth, dissolved	< 0.00010	0.00010 mg/L	
Boron, dissolved	< 0.0500	0.0500 mg/L	
Cadmium, dissolved	< 0.000010	0.000010 mg/L	
Calcium, dissolved	< 0.20	0.20 mg/L	
Chromium, dissolved	< 0.00050	0.00050 mg/L	
Cobalt, dissolved	< 0.00010	0.00010 mg/L	
Copper, dissolved	< 0.00040	0.00040 mg/L	
Iron, dissolved	< 0.010	0.010 mg/L	
Lead, dissolved	< 0.00020	0.00020 mg/L	
Lithium, dissolved	< 0.00010	0.00010 mg/L	
Magnesium, dissolved	< 0.010	0.010 mg/L	
Manganese, dissolved	< 0.00020	0.00020 mg/L	
Molybdenum, dissolved	< 0.00010	0.00010 mg/L	
Nickel, dissolved	< 0.00040	0.00040 mg/L	
Phosphorus, dissolved	< 0.050	0.050 mg/L	
Potassium, dissolved	< 0.10	0.10 mg/L	
Selenium, dissolved	< 0.00050	0.00050 mg/L	
Silicon, dissolved	< 1.0	1.0 mg/L	
Silver, dissolved	< 0.000050	0.000050 mg/L	
Sodium, dissolved	< 0.10	0.10 mg/L	
Strontium, dissolved	< 0.0010	0.0010 mg/L	
Sulfur, dissolved	< 3.0	3.0 mg/L	
Tellurium, dissolved	< 0.00050	0.00050 mg/L	
Thallium, dissolved	< 0.000020	0.000020 mg/L	
Thorium, dissolved	< 0.00010	0.00010 mg/L	
Tin, dissolved	< 0.00020	0.00020 mg/L	
Titanium, dissolved	< 0.0050	0.0050 mg/L	
Tungsten, dissolved	< 0.0010	0.0010 mg/L	
Uranium, dissolved	< 0.000020	0.000020 mg/L	
Vanadium, dissolved	< 0.0050	0.0050 mg/L	
Zinc, dissolved	< 0.0040	0.0040 mg/L	
Zirconium, dissolved	< 0.00010	0.00010 mg/L	



	George, City of - Pump S ter - PW 605	tation			WORK REPOR	ORDER TED	23D ² 2023	1935 3-05-08	13:33
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
issolved Metals, Batch B3D	2049, Continued								
LCS (B3D2049-BS1)			Prepared	: 2023-04-2	3, Analyze	d: 2023-0	4-23		
Aluminum, dissolved	4.06	0.0050 mg/L	4.00		102	80-120			
Antimony, dissolved	0.0411	0.00020 mg/L	0.0400		103	80-120			
Arsenic, dissolved	0.415	0.00050 mg/L	0.400		104	80-120			
Barium, dissolved	0.0393	0.0050 mg/L	0.0400		98	80-120			
Beryllium, dissolved	0.0410	0.00010 mg/L	0.0400		103	80-120			
Bismuth, dissolved	0.0406	0.00010 mg/L	0.0400		102	80-120			
Boron, dissolved	0.413	0.0500 mg/L	0.400		103	80-120			
Cadmium, dissolved	0.0395	0.000010 mg/L	0.0400		99	80-120			
Calcium, dissolved	4.07	0.20 mg/L	4.00		102	80-120			
Chromium, dissolved	0.0410	0.00050 mg/L	0.0400		103	80-120			
Cobalt, dissolved	0.0411	0.00010 mg/L	0.0400		103	80-120			
Copper, dissolved	0.0417	0.00040 mg/L	0.0400		104	80-120			
ron, dissolved	4.25	0.010 mg/L	4.00		106	80-120			
_ead, dissolved	0.0401	0.00020 mg/L	0.0400		100	80-120			
ithium, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120			
Magnesium, dissolved	4.21	0.010 mg/L	4.00		105	80-120			
Manganese, dissolved	0.0407	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0385	0.00010 mg/L	0.0400		96	80-120			
Nickel, dissolved	0.0404	0.00040 mg/L	0.0400		101	80-120			
Phosphorus, dissolved	4.16	0.050 mg/L	4.00		104	80-120			
Potassium, dissolved	4.14	0.10 mg/L	4.00		103	80-120			
Selenium, dissolved	0.407	0.00050 mg/L	0.400		102	80-120			
Silicon, dissolved	4.2	1.0 mg/L	4.00		106	80-120			
Silver, dissolved	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, dissolved	4.08	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0408	0.0010 mg/L	0.0400		102	80-120			
Sulfur, dissolved	40.5	3.0 mg/L	40.0		101	80-120			
Tellurium, dissolved	0.0406	0.00050 mg/L	0.0400		102	80-120			
Thallium, dissolved	0.0405	0.000020 mg/L	0.0400		101	80-120			
Thorium, dissolved	0.0413	0.00010 mg/L	0.0400		103	80-120			
Tin, dissolved	0.0394	0.00020 mg/L	0.0400		99	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Tungsten, dissolved	0.0405	0.0010 mg/L	0.0400		101	80-120			
Jranium, dissolved	0.0410	0.000020 mg/L	0.0400		102	80-120			
/anadium, dissolved	0.0407	0.0050 mg/L	0.0400		102	80-120			
Zinc, dissolved	0.415	0.0040 mg/L	0.400		104	80-120			
Zirconium, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
issolved Metals, Batch B3D	2141								
Blank (B3D2141-BLK1)			Prepared	: 2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B3D2141-BS1)			Prepared	: 2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, dissolved	0.000234	0.000010 mg/L	0.000250		94	80-120			
General Parameters, Batch B	3D1469		_						
Blank (B3D1469-BLK1)	-0.50	0.50"	Prepared	: 2023-04-1	ర, Analyze	a: 2023-0	14-18		
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B3D1469-BLK2)		0.50 "	Prepared	: 2023-04-1	8, Analyze	d: 2023-0	14-18		
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B3D1469-BLK3)			Prepared	: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Carbon, Total Organic	< 0.50	0.50 mg/L							



Allalyte Result RE Office / REC / RED	REPORTED TO PROJECT	Prince George, City Raw Water - PW 60	•	tion			_	D1935 23-05-08 13:33			
Prepared: 2023-04-18, Analyzed: 2023-04-18 Carbon, Total Organic 9.89 0.50 mg/L 10.0 97 78-116 LCS (B3D1469-BS2)	Analyte		Result	RL Units			% REC		% RPD	RPD Limit	Qualifier
Carbon, Total Organic 9.69 0.50 mg/L 10.0 97 76-116 LCS (B301469-BS2)	General Parameters	s, Batch B3D1469, Co	ntinued								
Carbon, Total Organic 9.69 0.50 mg/L 10.0 97 76-116 LCS (B301469-BS2) Prepared: 2023-04-18, Analyzed: 2023-04-18 Carbon, Total Organic 9.86 0.50 mg/L 10.0 99 78-116 LCS (B301469-BS3) Prepared: 2023-04-19, Analyzed: 2023-04-19 Carbon, Total Organic 10.4 0.50 mg/L 10.0 10.0 104 78-116 Carbon, Total Organic 10.4 0.50 mg/L 10.0 10.0 104 78-116 Carbon, Total Organic 10.4 0.50 mg/L 10.0 10.0 104 78-116 Carbon, Total Organic 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 4.2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 4.2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 4.2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 4.2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 4.2.0 10.0 mg/L 10.0 98 85-115 LCS (B301766-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	LCS (B3D1469-BS	1)			Prepared	l: 2023-04-1	8, Analyze	ed: 2023-0	04-18		
Carbon, Total Organic 9.86 0.50 mg/L 10.0 98 78-116 LCS (8301469-BS3)	·	·	9.69	0.50 mg/L						-	
Carbon, Total Organic 10.4 0.50 mg/L 10.0 104 78-116	LCS (B3D1469-BS	2)			Prepared	l: 2023-04-1	8, Analyze	d: 2023-0	04-18		
Carbon, Total Organic 10.4 0.50 mg/L 10.0 104 78-116 General Parameters, Batch B3D1766 Blank (B3D1766-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended < 2.0 mg/L LCS (B3D1766-BSLX2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 98.0 10.0 mg/L 100 98 85-115 LCS (B3D1766-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 98.0 10.0 mg/L 100 98 85-115 LCS (B3D1766-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 98.0 10.0 mg/L 100 10 98.0 10.0 mg/L 100 98 85-115 Mark (B3D1778-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-20 Anamonia, Total	Carbon, Total Organic	;	9.86	0.50 mg/L	10.0		99	78-116			
Blank (B3D1776-BLK1)	LCS (B3D1469-BS	3)			Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	04-19		
Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended < 2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended < 2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended < 2.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 98.0 10.0 mg/L 10.0 98 85-115 CS (B3D1766-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 98.0 10.0 mg/L 10.0 10.4 85-115 CS (B3D1766-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 85-115 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.1 mg/L 10.0 10.4 10.0 Solids, Total Suspended 10.4 10.0 10.4 10.0 Solids, Total Solida 10.4 10.0 10.4 10.0 Solids, Total Solida 10.4 10.0 10.4 10.0 Solids, Total Solida 10.4 10.0	Carbon, Total Organio	;	10.4	0.50 mg/L	10.0		104	78-116			
Solids, Total Suspended <2.0 2.0 mg/L	General Parameters	s, Batch B3D1766									
Blank (B3D1766-BLK2)	Blank (B3D1766-B	LK1)			Prepared	: 2023-04-2	0, Analyze	d: 2023-0	04-21		
Solids, Total Suspended 42.0 2.0 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21	Solids, Total Suspend	ed	< 2.0	2.0 mg/L							
Prepared: 2023-04-20, Analyzed: 2023-04-21	Blank (B3D1766-B	LK2)			Prepared	: 2023-04-2	0, Analyze	d: 2023-0	04-21		
Solids, Total Suspended 98.0 10.0 mg/L 100 98 85-115 LCS (B3D1766-BS2)	Solids, Total Suspend	ed	< 2.0	2.0 mg/L							
Prepared: 2023-04-20, Analyzed: 2023-04-21	LCS (B3D1766-BS	1)			Prepared	: 2023-04-2	0, Analyze	d: 2023-0	04-21		
Solids, Total Suspended 104 10.1 mg/L 100 104 85-115	Solids, Total Suspend	ed	98.0	10.0 mg/L	100		98	85-115			
Blank (B3D1778-BLK1)	LCS (B3D1766-BS	2)			Prepared	l: 2023-04-2	0, Analyze	d: 2023-0	04-21		
Blank (B3D1778-BLK1)	Solids, Total Suspend	ed	104	10.1 mg/L	100		104	85-115			
Blank (B3D1778-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) < 0.050	Blank (B3D1778-B	LK1)	< 0.050	0.050 mg/l	Prepared	l: 2023-04-2	0, Analyze	ed: 2023-0	04-20		
Ammonia, Total (as N) < 0.050 0.050 mg/L Blank (B3D1778-BLK3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) < 0.050 0.050 mg/L LCS (B3D1778-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.994 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21			< 0.050	0.050 mg/L					24.00		
Blank (B3D1778-BLK3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) < 0.050 0.050 mg/L LCS (B3D1778-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.994 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Anamonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L Blank (B3D1816-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Prepared: 2023-04-20, Analyzed: 2023-04-21 <td>·</td> <td><u> </u></td> <td>40.050</td> <td>0.050//</td> <td>Prepared</td> <td>1: 2023-04-2</td> <td>0, Analyze</td> <td>ed: 2023-0</td> <td>)4-20</td> <td></td> <td></td>	·	<u> </u>	40.050	0.050//	Prepared	1: 2023-04-2	0, Analyze	ed: 2023-0)4-20		
Ammonia, Total (as N) < 0.050 0.050 mg/L LCS (B3D1778-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.994 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050			< 0.050	0.050 mg/L							
LCS (B3D1778-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.994 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050		•	40.050	0.050//	Prepared	1: 2023-04-2	0, Analyze	d: 2023-0)4-20		
Ammonia, Total (as N) 0.994 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L Prepared: 2023-04-20, Analyzed: 2023-04-21 LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21			< 0.050	0.050 mg/L							
LCS (B3D1778-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L Blank (B3D1816-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21	· · · · · · · · · · · · · · · · · · ·	,	0.004	0.050//		1: 2023-04-2)4-20		
Ammonia, Total (as N) 0.988 0.050 mg/L 1.00 99 85-115 LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L Blank (B3D1816-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21			0.994	0.050 mg/L							
LCS (B3D1778-BS3) Prepared: 2023-04-20, Analyzed: 2023-04-20 Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L Blank (B3D1816-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21			0.000	0.050//		1: 2023-04-2)4-20		
Ammonia, Total (as N) 0.995 0.050 mg/L 1.00 100 85-115 General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L Blank (B3D1816-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 Prepared: 2023-04-20, Analyzed: 2023-04-21 Prepared: 2023-04-20, Analyzed: 2023-04-21		,	0.988	0.050 mg/L							
General Parameters, Batch B3D1816 Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050	· · · · · · · · · · · · · · · · · · ·	,	0.005	0.050//		1: 2023-04-2)4-20		
Blank (B3D1816-BLK1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050	Ammonia, Iotai (as N)	0.995	0.050 mg/L	1.00		100	85-115			
Nitrogen, Total Kjeldahl < 0.050	General Parameters	s, Batch B3D1816									
Blank (B3D1816-BLK2) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl < 0.050 0.050 mg/L LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21		•			Prepared	1: 2023-04-2	0, Analyze	d: 2023-0	04-21		
Nitrogen, Total Kjeldahl < 0.050	Nitrogen, Total Kjelda	hl	< 0.050	0.050 mg/L							
LCS (B3D1816-BS1) Prepared: 2023-04-20, Analyzed: 2023-04-21 Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21		•			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	04-21		
Nitrogen, Total Kjeldahl 1.08 0.050 mg/L 1.00 108 85-115 LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21	Nitrogen, Total Kjelda	hl	< 0.050	0.050 mg/L							
LCS (B3D1816-BS2) Prepared: 2023-04-20, Analyzed: 2023-04-21	LCS (B3D1816-BS	1)			Prepared	: 2023-04-2	0, Analyze	d: 2023-0	04-21		
	Nitrogen, Total Kjelda	hl	1.08	0.050 mg/L	1.00		108	85-115			
Nitrogen, Total Kjeldahl 1.07 0.050 mg/L 1.00 107 85-115	LCS (B3D1816-BS	2)			Prepared	: 2023-04-2	0, Analyze	d: 2023-0	04-21		
	Nitrogen, Total Kjelda	hl	1.07	0.050 mg/L	1.00		107	85-115			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B3D1834									
Blank (B3D1834-BLK1)			Prepared	l: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0 mg/L							
LCS (B3D1834-BS1)			Prepared	l: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Alkalinity, Total (as CaCO3)	94.2	1.0 mg/L	100		94	80-120			
Microbiological Parameters, Batch B3D	1600								
Blank (B3D1600-BLK1)			Prepared	l: 2023-04-1	19, Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100							
E. coli	< 1	1 CFU/100	mL						
Blank (B3D1600-BLK2)			Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100	mL						
E. coli	< 1	1 CFU/100	mL						
Blank (B3D1600-BLK3)			Prepared	l: 2023-04-1	19, Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100	•		· · · · · · · · · · · · · · · · · · ·				
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLK4)			Prepared	l: 2023-04- 1	19. Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100	•		· · · · · · · · · · · · · · · · · · ·				
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLK5)			Prepared	l: 2023-04-1	19, Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100							
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLK6)			Prepared	l: 2023-04- 1	19, Analyze	ed: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100	mL						
E. coli	< 1	1 CFU/100	mL						
Blank (B3D1600-BLK7)			Prepared	l: 2023-04-1	19. Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100	•						
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLK8)			Prepared	l: 2023-04- 1	19 Analyze	ed: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100	<u> </u>						
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLK9)		. 3. 3, 100		l: 2023-04-1	19, Analyze	ed: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100			<u>, , , , , , , , , , , , , , , , , , , </u>				
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLKA)				l: 2023-04- 1	19. Analyze	d: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100		0_0 0 7 1	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
E. coli	< 1	1 CFU/100							
Blank (B3D1600-BLKB)		. 57 57100		l: 2023-04-1	9. Analyze	ed: 2023-0	04-19		
Coliforms, Total	< 1	1 CFU/100		0_0 0 7 1	-,				
E. coli	< 1	1 CFU/100							
	·	. 3. 3, 700		. 0000 04	10. 4 1	-l. 0000	24.40		
Blank (B3D1600-BLKC)			•	l: 2023-04-1	19, Analyze	a: 2023-(J4-19		
Coliforms, Total	< 1	1 CFU/100	mL						



REPORTED TO	Prince George, City of - Pump Station	WORK ORDER	23D1935
PRO IECT	Raw Water - PW 605	REPORTED	2023-05-08 13:33

Analyte	Result	RL Units	Spike	Source	% REC	REC	% RPD RPD	Qualifier
			Level	Result		Limit	Limit	

Microbiological Parameters, Batch B3D1600, Continued

Blank (B3D1600-BLKC), Continued	Prepared: 2023-04-19, Analyzed: 2023-04-19
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E. coli < 1 1 CFU/100 mL

Microbiological Parameters, Batch B3D1689

Blank (B3D1689-BLK1)	Prepared: 2023-04-19, Analyzed: 2023-04-19
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Coliforms, Fecal < 1 1 CFU/100 mL

Total Metals, Batch B3D2122

Barium, total Beryllium, total

Bismuth, total

Blank (B3D2122-BLK1)			Prepared: 2023	3-04-24, Analyze	ed: 2023-04-24	
Aluminum, total	< 0.0050	0.0050 mg/L				
Antimony, total	< 0.00020	0.00020 mg/L				
Arsenic, total	< 0.00050	0.00050 mg/L				
Barium, total	< 0.0050	0.0050 mg/L				
Beryllium, total	< 0.00010	0.00010 mg/L				
Bismuth, total	< 0.00010	0.00010 mg/L				
Boron, total	< 0.0500	0.0500 mg/L				
Cadmium, total	< 0.000010	0.000010 mg/L				
Calcium, total	< 0.20	0.20 mg/L				
Chromium, total	< 0.00050	0.00050 mg/L				
Cobalt, total	< 0.00010	0.00010 mg/L				
Copper, total	< 0.00040	0.00040 mg/L				
ron, total	< 0.010	0.010 mg/L				
_ead, total	< 0.00020	0.00020 mg/L				
_ithium, total	< 0.00010	0.00010 mg/L				
Magnesium, total	< 0.010	0.010 mg/L				
Manganese, total	< 0.00020	0.00020 mg/L				
Molybdenum, total	< 0.00010	0.00010 mg/L				
Nickel, total	< 0.00040	0.00040 mg/L				
Phosphorus, total	< 0.050	0.050 mg/L				
Potassium, total	< 0.10	0.10 mg/L				
Selenium, total	< 0.00050	0.00050 mg/L				
Silicon, total	< 1.0	1.0 mg/L				
Silver, total	< 0.000050	0.000050 mg/L				
Sodium, total	< 0.10	0.10 mg/L				
Strontium, total	< 0.0010	0.0010 mg/L				
Sulfur, total	< 3.0	3.0 mg/L				
Tellurium, total	< 0.00050	0.00050 mg/L				
Γhallium, total	< 0.000020	0.000020 mg/L				
Thorium, total	< 0.00010	0.00010 mg/L				
Fin, total	< 0.00020	0.00020 mg/L				
Fitanium, total	< 0.0050	0.0050 mg/L				
Tungsten, total	< 0.0010	0.0010 mg/L				
Jranium, total	< 0.000020	0.000020 mg/L				
/anadium, total	< 0.0050	0.0050 mg/L				
Zinc, total	< 0.0040	0.0040 mg/L				
Zirconium, total	< 0.00010	0.00010 mg/L				
LCS (B3D2122-BS1)		Prepared: 2023-04-24, Analyzed: 2023-04-24				
Aluminum, total	4.09	0.0050 mg/L	4.00	102	80-120	
Antimony, total	0.0409	0.00020 mg/L	0.0400	102	80-120	
Arsenic, total	0.411	0.00050 mg/L	0.400	103	80-120	
Danissa tatal	0.0444	0.0050	0.0400	400	00.400	

0.0400

0.0400

0.0400

103

103

80-120

80-120

80-120

0.0050 mg/L

0.00010 mg/L

0.00010 mg/L

0.0411

0.0412

0.0389



	rince George, City of - Pump S aw Water - PW 605				WORK ORDER REPORTED		23D1935 2023-05-08		13:33
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
Total Metals, Batch B	3D2122, Continued								
LCS (B3D2122-BS1),	Continued		Prepared	: 2023-04-2	4, Analyze	d: 2023-0	4-24		
Boron, total	0.428	0.0500 mg/L	0.400		107	80-120			
Cadmium, total	0.0404	0.000010 mg/L	0.0400		101	80-120			
Calcium, total	4.15	0.20 mg/L	4.00		104	80-120			
Chromium, total	0.0413	0.00050 mg/L	0.0400		103	80-120			
Cobalt, total	0.0416	0.00010 mg/L	0.0400		104	80-120			
Copper, total	0.0416	0.00040 mg/L	0.0400		104	80-120			
Iron, total	4.18	0.010 mg/L	4.00		104	80-120			
Lead, total	0.0399	0.00020 mg/L	0.0400		100	80-120			
Lithium, total	0.0409	0.00010 mg/L	0.0400		102	80-120			
Magnesium, total	4.11	0.010 mg/L	4.00		103	80-120			
Manganese, total	0.0414	0.00020 mg/L	0.0400		103	80-120			
Molybdenum, total	0.0397	0.00010 mg/L	0.0400		99	80-120			
Nickel, total Phosphorus, total	0.0411 4.10	0.00040 mg/L 0.050 mg/L	0.0400 4.00		103 102	80-120 80-120			
Potassium, total	4.13	0.050 mg/L 0.10 mg/L	4.00		102	80-120			
Selenium, total	0.419	0.00050 mg/L	0.400		105	80-120			
Silicon, total	4.4	1.0 mg/L	4.00		109	80-120			
Silver, total	0.0423	0.000050 mg/L	0.0400		106	80-120			
Sodium, total	4.06	0.10 mg/L	4.00		101	80-120			
Strontium, total	0.0413	0.0010 mg/L	0.0400		103	80-120			
Sulfur, total	41.9	3.0 mg/L	40.0		105	80-120			
Tellurium, total	0.0393	0.00050 mg/L	0.0400		98	80-120			
Thallium, total	0.0396	0.000020 mg/L	0.0400		99	80-120			
Thorium, total	0.0405	0.00010 mg/L	0.0400		101	80-120			
Tin, total	0.0422	0.00020 mg/L	0.0400		105	80-120			
Titanium, total	0.0419	0.0050 mg/L	0.0400		105	80-120			
Tungsten, total	0.0399	0.0010 mg/L	0.0400		100	80-120			
Uranium, total	0.0408	0.000020 mg/L	0.0400		102	80-120			
Vanadium, total	0.0407	0.0050 mg/L	0.0400		102	80-120			
Zinc, total	0.411	0.0040 mg/L	0.400		103	80-120			
Zirconium, total	0.0418	0.00010 mg/L	0.0400		104	80-120			
Total Metals, Batch B	3D2142								
Blank (B3D2142-BLK1	1)		Prepared	: 2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B3D2142-BLK2	2)		Prepared	: 2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B3D2142-BS1)			Prepared	: 2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, total	0.000229	0.000010 mg/L	0.000250		92	80-120			
LCS (B3D2142-BS2)				: 2023-04-2			4-24		
Mercury, total	0.000263	0.000010 mg/L	0.000250		105	80-120			
/olatile Organic Comp	ounds (VOC), Batch B3D2098								
Blank (B3D2098-BLK1			Prepared	: 2023-04-2	3, Analyze	d: 2023-0	4-23		
Bromodichloromethane	< 0.0010	0.0010 mg/L			<u> </u>				
Bromoform	< 0.0010	0.0010 mg/L							
Chloroform	< 0.0010	0.0010 mg/L							
Dibromochloromethane	< 0.0010	0.0010 mg/L							
Surrogate: Toluene-d8	0.0259	mg/L	0.0250		104	70-130			
Surrogate: 4-Bromofluoro	obenzene 0.0241	mg/L	0.0249		97	70-130			



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Prince George, City of - Pump Station Raw Water - PW 605

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