

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 Dave Bobbie WORK ORDER 23D1918

PO NUMBER

PROJECT Raw Water - PW 652 **REPORTED** 2023-05-08 13:32

PROJECT INFO [info] COC NUMBER No 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

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

Ahead of the Curve

RECEIVED / TEMP

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

2023-04-19 09:45 / 11.3°C

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

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TEST RESULTS

REPORTED TO	Prince George, City of - Pump Station	WORK ORDER	23D1918
PROJECT	Raw Water - PW 652	REPORTED	2023-05-08 13:32

Analyte	Result	RL	Units	Analyzed	Qualifier
PW 652 (23D1918-01) Matrix: Water	Sampled: 2023-04-18 09:00				
Anions					
Bromide	< 0.10	0.10	mg/L	2023-04-20	
Chloride	0.23	0.10	mg/L	2023-04-20	
Fluoride	0.13	0.10	mg/L	2023-04-20	
Nitrate (as N)	0.052	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	20.3	1.0	mg/L	2023-04-20	
Calculated Parameters					
Total Trihalomethanes	< 0.00400	0.00400	mg/L	N/A	
Hardness, Dissolved (as CaCO3)	277	0.500		N/A	
Nitrate+Nitrite (as N)	0.0518	0.0100		N/A	
Nitrogen, Total	0.0518	0.0500		N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	0.0050	ma/l	2023-04-23	
Antimony, dissolved	< 0.00020	0.00020		2023-04-23	
Arsenic, dissolved	< 0.00050	0.00050		2023-04-23	
Barium, dissolved	0.0609	0.0050		2023-04-23	
Beryllium, dissolved	< 0.00010	0.00010		2023-04-23	
Bismuth, dissolved	< 0.00010	0.00010		2023-04-23	
Boron, dissolved	< 0.0500	0.0500		2023-04-23	
Cadmium, dissolved	< 0.000010	0.000010		2023-04-23	
Calcium, dissolved	55.7		mg/L	2023-04-23	
Chromium, dissolved	0.0117	0.00050		2023-04-23	
Cobalt, dissolved	< 0.00010	0.00010		2023-04-23	
Copper, dissolved	< 0.00040	0.00040		2023-04-23	
Iron, dissolved	< 0.010	0.010		2023-04-23	
Lead, dissolved	< 0.00020	0.00020		2023-04-23	
Lithium, dissolved	0.00088	0.00010		2023-04-23	
Magnesium, dissolved	33.5	0.010	mg/L	2023-04-23	
Manganese, dissolved	< 0.00020	0.00020		2023-04-23	
Mercury, dissolved	< 0.000010	0.000010		2023-04-24	
Molybdenum, dissolved	0.00509	0.00010		2023-04-23	
Nickel, dissolved	< 0.00040	0.00040		2023-04-23	
Phosphorus, dissolved	< 0.050	0.050		2023-04-23	
Potassium, dissolved	1.69		mg/L	2023-04-23	
Selenium, dissolved	0.00115	0.00050		2023-04-23	
Silicon, dissolved	11.1		mg/L	2023-04-23	
Silver, dissolved	< 0.000050	0.000050		2023-04-23	
Sodium, dissolved	16.2		mg/L	2023-04-23	
Strontium, dissolved	0.340	0.0010		2023-04-23	
Sulfur, dissolved	6.9		mg/L	2023-04-23	
Tellurium, dissolved	< 0.00050	0.00050		2023-04-23	
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TEST RESULTS

REPORTED TO PROJECT	Prince George, City o Raw Water - PW 652	f - Pump Station		WORK ORDER REPORTED	23D1918 2023-05-0	8 13:32
Analyte		Result	RL	Units	Analyzed	Qualifier
PW 652 (23D1918	B-01) Matrix: Water S	ampled: 2023-04-18 09:	00, Continued			
Dissolved Metals, (Continued					
Thallium, dissolve	d	< 0.000020	0.000020	mg/L	2023-04-23	
Thorium, dissolved	d	< 0.00010	0.00010	mg/L	2023-04-23	
Tin, dissolved		< 0.00020	0.00020	mg/L	2023-04-23	
Titanium, dissolve	d	< 0.0050	0.0050	mg/L	2023-04-23	
Tungsten, dissolve	ed	< 0.0010	0.0010	mg/L	2023-04-23	
Uranium, dissolve		0.00658	0.000020		2023-04-23	
Vanadium, dissolv		< 0.0050	0.0050		2023-04-23	
Zinc, dissolved		< 0.0040	0.0040		2023-04-23	
Zirconium, dissolv	red	< 0.00010	0.00010		2023-04-23	
General Parameter	s					
Adsorbable Organ	nic Halides	< 50	50	μg/L	2023-04-27	
Alkalinity, Total (as		269		mg/L	2023-04-20	
	ohthalein (as CaCO3)	< 1.0		mg/L	2023-04-20	
Alkalinity, Bicarbor		269		mg/L	2023-04-20	
Alkalinity, Carbona		< 1.0		mg/L	2023-04-20	
Alkalinity, Hydroxid	,	< 1.0		mg/L	2023-04-20	
Ammonia, Total (a	· · · · · · · · · · · · · · · · · · ·	< 0.050	0.050		2023-04-20	
Carbon, Total Orga	· · · · · · · · · · · · · · · · · · ·	< 0.50		mg/L	2023-04-19	
Nitrogen, Total Kje		< 0.050	0.050		2023-04-21	
Solids, Total Susp		< 2.0		mg/L	2023-04-21	
Microbiological Pa	rameters					
Coliforms, Total		< 1	1	CFU/100 mL	2023-04-19	HT3
Coliforms, Fecal		<1	1	CFU/100 mL	2023-04-19	HT1
E. coli		< 1	1	CFU/100 mL	2023-04-19	HT3
Total Metals						
		4 0 00F0	0.0050	o. //	2022 04 24	
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		0.0603	0.0050		2023-04-24	
Beryllium, total		< 0.00010	0.00010		2023-04-24	
Bismuth, total		< 0.00010	0.00010		2023-04-24	
Boron, total		< 0.0500	0.0500		2023-04-24	
Cadmium, total		< 0.000010	0.000010		2023-04-24	
Calcium, total		55.1		mg/L	2023-04-24	
Chromium, total		0.0118	0.00050		2023-04-24	
Cobalt, total		< 0.00010	0.00010		2023-04-24	
Copper, total		< 0.00040	0.00040		2023-04-24	
Iron, total		< 0.010	0.010		2023-04-24	
Lead, total		< 0.00020	0.00020		2023-04-24	
Lithium, total		0.00089	0.00010		2023-04-24	
Magnesium, total		31.7	0.010	mg/L	2023-04-24	



TEST RESULTS

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 652

WORK ORDER REPORTED 23D1918

2023-05-08 13:32

Analyte	Result	RL	Units	Analyzed	Qualifie
PW 652 (23D1918-01) Matrix: Water	Sampled: 2023-04-18 09:00,	Continued			
Total Metals, Continued					
Manganese, total	< 0.00020	0.00020	mg/L	2023-04-24	
Mercury, total	< 0.000010	0.000010	mg/L	2023-04-24	
Molybdenum, total	0.00558	0.00010	mg/L	2023-04-24	
Nickel, total	< 0.00040	0.00040	mg/L	2023-04-24	
Phosphorus, total	< 0.050	0.050	mg/L	2023-04-24	
Potassium, total	1.59	0.10	mg/L	2023-04-24	
Selenium, total	0.00109	0.00050	mg/L	2023-04-24	
Silicon, total	10.9	1.0	mg/L	2023-04-24	
Silver, total	< 0.000050	0.000050	mg/L	2023-04-24	
Sodium, total	15.6	0.10	mg/L	2023-04-24	
Strontium, total	0.329	0.0010	mg/L	2023-04-24	
Sulfur, total	7.1	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	0.00732	0.000020	mg/L	2023-04-24	
Vanadium, total	< 0.0050	0.0050	mg/L	2023-04-24	
Zinc, total	< 0.0040	0.0040	mg/L	2023-04-24	
Zirconium, total	< 0.00010	0.00010	mg/L	2023-04-24	
Volatile Organic Compounds (VOC)					
Bromodichloromethane	< 0.0010	0.0010	mg/L	2023-04-24	
Bromoform	< 0.0010	0.0010	mg/L	2023-04-24	
Chloroform	< 0.0010	0.0010	mg/L	2023-04-24	
Dibromochloromethane	< 0.0010	0.0010		2023-04-24	
Surrogate: Toluene-d8	85	70-130	%	2023-04-24	
Surrogate: 4-Bromofluorobenzene	71	70-130	%	2023-04-24	

Sample Qualifiers:

HT1 The sample was prepared and/or analyzed past the recommended holding time.

HT3 Microbiological analysis was initiated beyond the maximum holding time of 30 hours. Results may not be valid.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 652

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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 652

WORK ORDER REPORTED 23D1918

2023-05-08 13:32

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.



REPORTED TO Prince George, City of - Pump Station **PROJECT**

Raw Water - PW 652

WORK ORDER REPORTED

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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	Qualifier
Anions, Batch B3D1781									
Blank (B3D1781-BLK1)			Prepared	d: 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	d: 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							
LCS (B3D1781-BS1)			Prepared	d: 2023-04-2	20, Analyze	d: 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	d: 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			



REPORTED TO

Tellurium, dissolved

Thallium, dissolved

Thorium, dissolved

Titanium, dissolved

Tungsten, dissolved

Uranium, dissolved

Zinc, dissolved

Vanadium, dissolved

Tin, dissolved

PROJECT

APPENDIX 2: QUALITY CONTROL RESULTS

Prince George, City of - Pump Station

Raw Water - PW 652

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
Dissolved Metals, Batch B3D204	19, Continued								
Blank (B3D2049-BLK1)			Prepared	d: 2023-04-2	23, Analyze	d: 2023-0	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							

0.00050 mg/L

0.000020 mg/L

0.00010 mg/L

0.00020 mg/L

0.0050 mg/L

0.0010 mg/L

0.0050 mg/L 0.0040 mg/L

0.000020 mg/L

< 0.00050

< 0.000020

< 0.00010

< 0.00020

< 0.0050

< 0.0010

< 0.0050

< 0.0040

< 0.000020

Zirconium, dissolved	< 0.00010	0.00010 mg/L				
LCS (B3D2049-BS1)			Prepared: 202	23-04-23, Analyze	d: 2023-04-23	}
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	
Iron, dissolved	4.25	0.010 mg/L	4.00	106	80-120	
Lead, dissolved	0.0401	0.00020 mg/L	0.0400	100	80-120	
Lithium, 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	

23D1918

2023-05-08 13:32

WORK ORDER

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REPORTED TO Prince George, C PROJECT Raw Water - PW	•	tation			WORK REPOR			1918 -05-08	13:32
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B3D2049, Con	ntinued								
LCS (B3D2049-BS1), Continued			Prepared:	2023-04-23	3, Analyze	d: 2023-0	04-23		
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			
Uranium, dissolved	0.0410	0.000020 mg/L	0.0400		102	80-120			
Vanadium, 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			
Dissolved Metals, Batch B3D2141 Blank (B3D2141-BLK1)	z 0.000040	0.000010	Prepared:	2023-04-24	, Analyze	d: 2023-0)4-24		
Blank (B3D2141-BLK1) Mercury, dissolved	< 0.000010	0.000010 mg/L	•						
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved	< 0.000010 0.000234	0.000010 mg/L 0.000010 mg/L	•	2023-04-24					
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1)			Prepared: 0.000250		, Analyze	d: 2023-0 80-120)4-24		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Seneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic	0.000234	0.000010 mg/L	Prepared:	2023-04-24	, Analyze 94 3, Analyze	d: 2023-0 80-120 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Seneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2)	0.000234	0.000010 mg/L	Prepared:	2023-04-24 2023-04-18	, Analyze 94 3, Analyze	d: 2023-0 80-120 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3)	0.000234< 0.50< 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared:	2023-04-24 2023-04-18	94 94 3, Analyze 3, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3)	0.000234 < 0.50	0.000010 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared:	2023-04-18 2023-04-18 2023-04-19	94 94 3, Analyze 3, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0	04-24 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic	< 0.50 < 0.50 < 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared:	2023-04-24 2023-04-18 2023-04-18	3, Analyze 3, Analyze 3, Analyze 3, Analyze 3, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0	04-24 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic	0.000234< 0.50< 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18	3, Analyze 3, Analyze 3, Analyze 3, Analyze 9, Analyze 97	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0 78-116	04-24 04-18 04-18 04-19		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Beneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2)	< 0.50 < 0.50 < 0.50 9.69	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: O.000250 Prepared: Prepared: Prepared: Prepared: Prepared: Prepared:	2023-04-18 2023-04-18 2023-04-19	3, Analyze 3, Analyze 3, Analyze 3, Analyze 97 3, Analyze	d: 2023-0	04-24 04-18 04-18 04-19		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic	< 0.50 < 0.50 < 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18	3, Analyze 3, Analyze 3, Analyze 9, Analyze 97 3, Analyze 99	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-19 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Beneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic	0.000234< 0.50< 0.50< 0.509.699.86	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: 10.0 Prepared: 10.0 Prepared:	2023-04-18 2023-04-18 2023-04-19 2023-04-18	3, Analyze 9, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116 d: 2023-0	04-24 04-18 04-19 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic	< 0.50 < 0.50 < 0.50 9.69	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18	3, Analyze 3, Analyze 3, Analyze 9, Analyze 97 3, Analyze 99	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-19 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic	0.000234< 0.50< 0.50< 0.509.699.86	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared: 10.0 Prepared: 10.0 Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-18 2023-04-18 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze 104	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-18 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic	0.000234 < 0.50 < 0.50 < 0.50 9.69 9.86 10.4	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared: 10.0 Prepared: 10.0 Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze 104	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-18 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic	0.000234< 0.50< 0.50< 0.509.699.86	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: O.000250 Prepared: Prepared: Prepared: 10.0 Prepared: 10.0 Prepared: 10.0 Prepared:	2023-04-18 2023-04-18 2023-04-18 2023-04-18 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze 104	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-18 04-19 04-18 04-19		



REPORTED TO PROJECT	Prince George, City of Raw Water - PW 652	- Pump Sta	ation			WORK REPOR	ORDER RTED	_	1918 3-05-08	13:32
Analyte		Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
General Parameters	, Batch B3D1766, Contin	ued								
LCS (B3D1766-BS1))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	4-21		
Solids, Total Suspende	ed	98.0	10.0 mg/L	100		98	85-115			
LCS (B3D1766-BS2))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	4-21		
Solids, Total Suspende	ed	104	10.1 mg/L	100		104	85-115			
General Parameters	, Batch B3D1778									
Blank (B3D1778-BL	.K1)			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	14-20		
Ammonia, Total (as N)		< 0.050	0.050 mg/L							
Blank (B3D1778-BL	.K2)			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	14-20		
Ammonia, Total (as N)		< 0.050	0.050 mg/L							
Blank (B3D1778-BL	K3)			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	14-20		
Ammonia, Total (as N)		< 0.050	0.050 mg/L							
LCS (B3D1778-BS1))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	4-20		
Ammonia, Total (as N)		0.994	0.050 mg/L	1.00		99	85-115			
LCS (B3D1778-BS2))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	4-20		
Ammonia, Total (as N)		0.988	0.050 mg/L	1.00		99	85-115			
LCS (B3D1778-BS3))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	4-20		
Ammonia, Total (as N)		0.995	0.050 mg/L	1.00		100	85-115			
General Parameters, Blank (B3D1816-BL				Prepared	: 2023-04-2	0, Analyze	ed: 2023-0)4-21		
Nitrogen, Total Kjeldah	l	< 0.050	0.050 mg/L							
Blank (B3D1816-BL	.K2)			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	4-21		
Nitrogen, Total Kjeldah	l	< 0.050	0.050 mg/L							
LCS (B3D1816-BS1))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	04-21		
Nitrogen, Total Kjeldah	l	1.08	0.050 mg/L	1.00		108	85-115			
LCS (B3D1816-BS2)			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	14-21		
Nitrogen, Total Kjeldah	I	1.07	0.050 mg/L	1.00		107	85-115			
General Parameters	, Batch B3D1834									
Blank (B3D1834-BL	.K1)			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	04-20		
Alkalinity, Total (as Cat		< 1.0	1.0 mg/L		-					
Alkalinity, Phenolphtha Alkalinity, Bicarbonate		< 1.0 < 1.0	1.0 mg/L 1.0 mg/L							
Alkalinity, Carbonate (a	· /	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (a		< 1.0	1.0 mg/L							
LCS (B3D1834-BS1))			Prepared	: 2023-04-2	0, Analyze	ed: 2023-0	04-20		
Alkalinity, Total (as Ca0	CO3)	94.2	1.0 mg/L	100		94	80-120			
Microbiological Para	ameters, Batch B3D1600)								
Blank (B3D1600-BL	.K1)			Prepared	: 2023-04-1	9, Analyze	ed: 2023-0	14-19		
Coliforms, Total		< 1	1 CFU/100							
E. coli		< 1	1 CFU/100	mL						ge 10 o



REPORTED TO PROJECT	Prince George, City of Raw Water - PW 652	•	tion				WORK REPOR	ORDER TED	23D ² 2023	1918 3-05-08	13:32
Analyte		Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
Microbiological Pa	rameters, Batch B3D160	00, Continued									
Blank (B3D1600-B	LK2)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1	1	CFU/100 r	nL						
E. coli		< 1	1	CFU/100 r	nL						
Blank (B3D1600-B	LK3)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0	14-19		
Coliforms, Total		< 1	1	CFU/100 r	nL						
E. coli		< 1	1	CFU/100 r	nL						
Blank (B3D1600-B	LK4)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0	14-19		
Coliforms, Total		< 1	1	CFU/100 r	nL						
E. coli		< 1	1	CFU/100 r	nL						
Blank (B2D4600 B					Prenarod	I: 2023-04-1	0 Analyzo	4. 3U33 U	14_10		
Blank (B3D1600-B	LNJ)			0511/406		1. 2023-04-1	o, Analyze	u. 2023-l	/ 13		
Coliforms, Total		< 1 < 1		CFU/100 r							
E. coli		< 1	1	CFU/100 r	IIL						
Blank (B3D1600-B	LK6)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1	1	CFU/100 r	nL						
E. coli		< 1	1	CFU/100 r	nL						
Blank (B3D1600-B	LK7)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0)4-19		
Coliforms, Total	•	< 1	1	CFU/100 r	 nL		•				
E. coli		< 1		CFU/100 r							
D (DAD 4000 D	1.160					. 0000 04 4	0 4 1	-1. 0000 0	14.40		
Blank (B3D1600-B	LK8)					I: 2023-04-1	9, Anaiyze	a: 2023-C	14-19		
Coliforms, Total		< 1		CFU/100 r							
E. coli		< 1	1	CFU/100 r	nL						
Blank (B3D1600-B	LK9)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1	1	CFU/100 r	nL						
E. coli		< 1	1	CFU/100 r	nL						
Blank (B3D1600-B	LKA)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0	14-19		
Coliforms, Total	·	< 1	1	CFU/100 r			<u> </u>				
E. coli		< 1		CFU/100 r							
Blank (B3D1600-B	I KB)				Prepared	I: 2023-04-1	9 Analyze	d· 2023-0	14-19		
Coliforms, Total		< 1	1	CFU/100 r	<u> </u>	. 2020 0 1 1	o, raidiy20	4. 2020 0	, , , , ,		
E. coli		< 1		CFU/100 r							
		· ·		01 07 100 1							
Blank (B3D1600-B	LKC)				Prepared	I: 2023-04-1	9, Analyze	d: 2023-0)4-19		
Coliforms, Total		< 1		CFU/100 r							
E. coli		< 1	1	CFU/100 r	nL						
ficrobiological Pa	rameters, Batch B3D168	89									
Blank (B3D1689-B	LK1)				Prepared	I: 2023-04-1	9, Analvze	d: 2023-0	04-19		
Coliforms, Fecal	,	< 1	1	CFU/100 r	 nL						
·											
Total Metals, Batcl											
Blank (B3D2122-B	LK1)	10.0050	0.0055		Prepared	I: 2023-04-2	24, Analyze	d: 2023-0)4-24		
Aluminum, total		< 0.0050	0.0050								
Antimony, total		< 0.00020 < 0.00050	0.00020								
		< U.UUUUU	0.00050	my/L							
			0.0050								
Arsenic, total Barium, total Beryllium, total		< 0.0050 < 0.00010	0.0050 0.00010	mg/L							



REPORTED TO PROJECT	Prince George, City of - Pump S Raw Water - PW 652	Station			WORK REPOR	ORDER TED	23D1 2023	1918 -05-08	13:32
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batcl	h B3D2122, Continued								
Blank (B3D2122-B	LK1), Continued		Prepared	l: 2023-04-2	4, Analyze	d: 2023-0	4-24		
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							
Iron, total	< 0.010	0.010 mg/L 0.00020 mg/L							
Lead, total Lithium, total	< 0.00020 < 0.00010	0.00020 mg/L 0.00010 mg/L							
Magnesium, total	< 0.000	0.000 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00020 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							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total Titanium, total	< 0.00020 < 0.0050	0.00020 mg/L 0.0050 mg/L							
Tungsten, total	< 0.0010	0.0030 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, 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-BS	1)		Prepared	l: 2023-04-2	4, Analyze	d: 2023-0	4-24		
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			
Barium, total	0.0411	0.0050 mg/L	0.0400		103	80-120			
Beryllium, total	0.0412	0.00010 mg/L	0.0400		103	80-120			
Bismuth, total	0.0389	0.00010 mg/L	0.0400		97	80-120			
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 Lead, total	4.18 0.0399	0.010 mg/L 0.00020 mg/L	4.00 0.0400		104 100	80-120 80-120			
Lithium, total	0.0399	0.00020 mg/L 0.00010 mg/L	0.0400		100	80-120			
Magnesium, total	4.11	0.00010 mg/L 0.010 mg/L	4.00		102	80-120			
Manganese, total	0.0414	0.00020 mg/L	0.0400		103	80-120			
Molybdenum, total	0.0397	0.00020 mg/L	0.0400		99	80-120			
Nickel, total	0.0411	0.00040 mg/L	0.0400		103	80-120			
Phosphorus, total	4.10	0.050 mg/L	4.00		102	80-120			
Potassium, total	4.13	0.10 mg/L	4.00		103	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			



REPORTED TO PROJECT	Prince George, City of - Pump Station Raw Water - PW 652					WORK ORDER REPORTED		23D1918 2023-05-08		13:32
Analyte		Result	RL Ur	nits Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
Total Metals, Batc	h B3D2122, Continued									
LCS (B3D2122-BS	1), Continued			Prepare	d: 2023-04-24	, Analyze	d: 2023-0	4-24		
Silver, total		0.0423	0.000050 mg	g/L 0.0400		106	80-120			
Sodium, total		4.06	0.10 mg	J/L 4.00		101	80-120			
Strontium, total		0.0413	0.0010 mg	J/L 0.0400		103	80-120			
Sulfur, total		41.9	3.0 mg	g/L 40.0		105	80-120			
Tellurium, total		0.0393	0.00050 mg	g/L 0.0400		98	80-120			
Thallium, total		0.0396	0.000020 mg	g/L 0.0400		99	80-120			
Thorium, total		0.0405	0.00010 mg	<u></u>		101	80-120			
Tin, total		0.0422	0.00020 mg	g/L 0.0400		105	80-120			
Titanium, total		0.0419	0.0050 mg	g/L 0.0400		105	80-120			
Tungsten, total		0.0399	0.0010 mg	g/L 0.0400		100	80-120			
		0.0408	0.000020 mg			102	80-120			
Uranium, total										
· · · · · · · · · · · · · · · · · · ·		0.0407	0.0050 mg	J/L 0.0400		102	80-120			
Uranium, total Vanadium, total Zinc, total Zirconium, total	1. DODO440	0.0407 0.411 0.0418	0.0050 mg 0.0040 mg 0.00010 mg	g/L 0.400		102 103 104	80-120 80-120 80-120			
Vanadium, total Zinc, total Zirconium, total Total Metals, Batc		0.411	0.0040 mg	g/L 0.400 g/L 0.0400		103 104	80-120 80-120	4.04		
Vanadium, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B		0.411 0.0418	0.0040 mg	y/L 0.400 y/L 0.0400 Prepared	d: 2023-04-24	103 104	80-120 80-120	4-24		
Vanadium, total Zinc, total Zirconium, total Total Metals, Batc		0.411	0.0040 mg	y/L 0.400 y/L 0.0400 Prepared	d: 2023-04-24	103 104	80-120 80-120	4-24		
Vanadium, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B	BLK1)	0.411 0.0418	0.0040 mg	g/L 0.400 g/L 0.0400 Prepared	d: 2023-04-24 d: 2023-04-24	103 104 -, Analyze	80-120 80-120 d: 2023-0			
Vanadium, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-B	BLK1)	0.411 0.0418	0.0040 mg	9/L 0.400 9/L 0.0400 Prepared 9/L		103 104 -, Analyze	80-120 80-120 d: 2023-0			
Vanadium, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-B Mercury, total	BLK1)	0.411 0.0418 < 0.000010	0.0040 mg 0.00010 mg	p/L 0.400 p/L 0.0400 Prepared p/L Prepared p/L		103 104 , Analyze	80-120 80-120 d: 2023-0 d: 2023-0	4-24		
Vanadium, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-B Mercury, total LCS (B3D2142-BS	BLK1)	0.411 0.0418 < 0.000010	0.0040 mg 0.00010 mg	Prepared Prepared Prepared Prepared Prepared Prepared	d: 2023-04-24 d: 2023-04-24	103 104 , Analyze	80-120 80-120 d: 2023-0 d: 2023-0	4-24		
Vanadium, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-B Mercury, total LCS (B3D2142-BS Mercury, total	BLK2)	0.411 0.0418 < 0.000010 < 0.000010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg	0.400 0.0400 Prepared 0.0400 Prepared 0.0400 Prepared 0.000250 0.00025	d: 2023-04-24 d: 2023-04-24	103 104 , Analyze , Analyze	80-120 80-120 d: 2023-0 d: 2023-0 d: 2023-0 80-120	4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-B Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS	BLK2)	0.411 0.0418 < 0.000010 < 0.000010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg	Prepared Prepared Prepared Prepared Prepared Prepared Prepared Prepared Prepared	d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	103 104 , Analyze , Analyze	80-120 80-120 d: 2023-0 d: 2023-0 d: 2023-0 80-120	4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-B Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total	SLK1) SLK2) S1) compounds (VOC), Batc	0.411 0.0418 < 0.000010 < 0.000010 0.000229	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg	0.400 0.0400 0.	d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total CS (B3D2142-BS Mercury, total CS (B3D2142-BS Mercury, total	SLK1) SLK2) S1) Compounds (VOC), Bate	0.411 0.0418 < 0.000010 < 0.000010 0.000229 0.000263	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg 0.000010 mg		d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total Blank (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total CS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total	SLK1) SLK2) S1) Compounds (VOC), Bate	0.411 0.0418 < 0.000010 < 0.000029 0.000263 Ch B3D2098 < 0.0010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.000010 mg		d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Zirconium, total Fotal Metals, Batc Blank (B3D2142-B Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total LCS (B3D2142-BS Mercury, total Colatile Organic Colatile Organic Colatile Organic Colatile Series Colatile Blank (B3D2098-B) Bromodichlorometha Bromoform	SLK1) SLK2) S1) Compounds (VOC), Bate	0.411 0.0418 < 0.000010 < 0.000029 0.000263 ch B3D2098 < 0.0010 < 0.0010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.000010 mg		d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Resurv, total Resurv, total LCS (B3D2142-BS) Mercury, total LCS (B3D2142-BS) Mercury, total Zirconium, total	SLK1) SLK2) S1) S2) Compounds (VOC), BatcasLK1) The	0.411 0.0418 < 0.000010 < 0.0000229 0.000263 ch B3D2098 < 0.0010 < 0.0010 < 0.0010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.0010 mg		d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Recury, total LCS (B3D2142-BS) Mercury, total LCS (B3D2142-BS) Mercury, total Zirconium, total	SLK1) SLK2) ST) ST) ST) ST) ST) ST) ST) ST) ST) ST	0.411 0.0418 < 0.000010 < 0.0000229 0.000263 ch B3D2098 < 0.0010 < 0.0010 < 0.0010 < 0.0010 < 0.0010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.000010 mg		d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		
Vanadium, total Zinc, total Zinc, total Zirconium, total Recury, total LCS (B3D2142-BS) Mercury, total LCS (B3D2142-BS) Mercury, total Zirconium, total	SLK1) SLK2) ST) ST) ST) ST) ST) ST) ST) ST) ST) ST	0.411 0.0418 < 0.000010 < 0.0000229 0.000263 ch B3D2098 < 0.0010 < 0.0010 < 0.0010	0.0040 mg 0.00010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.000010 mg 0.0010 mg		d: 2023-04-24 d: 2023-04-24 d: 2023-04-24	, Analyze , Analyze , Analyze , Analyze 105	80-120 80-120 d: 2023-0 d: 2023-0 80-120 d: 2023-0 80-120	4-24 4-24 4-24		