

## CERTIFICATE OF ANALYSIS

**REPORTED TO** Prince George, City of - Pump Station  
1100 Patricia Boulevard  
Prince George, BC V2L 3v9

**ATTENTION** Cheyenne Magee

**PO NUMBER**

**PROJECT** Raw Water - PW 652

**PROJECT INFO** [info]

**WORK ORDER** 25D3181

**RECEIVED / TEMP** 2025-04-24 12:30 / 8.5°C

**REPORTED** 2025-05-07 09:31

**COC NUMBER** no#

### 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



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.

#### We've Got Chemistry



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



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.

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 [hhannaoui@caro.ca](mailto:hhannaoui@caro.ca)

### Authorized By:

Hanane El Hannaoui  
Junior Account Manager



1-888-311-8846 | [www.caro.ca](http://www.caro.ca)

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |  
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

## TEST RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                                                        | Result         | RL       | Units | Analyzed   | Qualifier |
|--------------------------------------------------------------------------------|----------------|----------|-------|------------|-----------|
| <b>PW652 (25D3181-01)   Matrix: Drinking Water   Sampled: 2025-04-23 08:30</b> |                |          |       |            |           |
| <b>Anions</b>                                                                  |                |          |       |            |           |
| Bromide                                                                        | < 0.1          | 0.1      | mg/L  | 2025-04-25 |           |
| Chloride                                                                       | <b>30.2</b>    | 0.10     | mg/L  | 2025-04-25 |           |
| Fluoride                                                                       | < 1.00         | 0.10     | mg/L  | 2025-04-25 | RA1       |
| Nitrate (as N)                                                                 | <b>0.173</b>   | 0.010    | mg/L  | 2025-04-25 |           |
| Nitrite (as N)                                                                 | < 0.010        | 0.010    | mg/L  | 2025-04-25 |           |
| Sulfate                                                                        | <b>16.1</b>    | 1.0      | mg/L  | 2025-04-25 |           |
| <b>Calculated Parameters</b>                                                   |                |          |       |            |           |
| Total Trihalomethanes                                                          | < 0.00400      | 0.00400  | mg/L  | N/A        |           |
| Hardness, Dissolved (as CaCO3)                                                 | <b>261</b>     | 0.500    | mg/L  | N/A        |           |
| Nitrate+Nitrite (as N)                                                         | <b>0.173</b>   | 0.100    | mg/L  | N/A        |           |
| Nitrogen, Total                                                                | <b>0.173</b>   | 0.100    | mg/L  | N/A        |           |
| <b>Dissolved Metals</b>                                                        |                |          |       |            |           |
| Aluminum, dissolved                                                            | < 0.0050       | 0.0050   | mg/L  | 2025-04-27 |           |
| Antimony, dissolved                                                            | < 0.00020      | 0.00020  | mg/L  | 2025-04-27 |           |
| Arsenic, dissolved                                                             | < 0.00050      | 0.00050  | mg/L  | 2025-04-27 |           |
| Barium, dissolved                                                              | <b>0.0604</b>  | 0.0050   | mg/L  | 2025-04-27 |           |
| Beryllium, dissolved                                                           | < 0.00010      | 0.00010  | mg/L  | 2025-04-27 |           |
| Bismuth, dissolved                                                             | < 0.00010      | 0.00010  | mg/L  | 2025-04-27 |           |
| Boron, dissolved                                                               | < 0.0500       | 0.0500   | mg/L  | 2025-04-27 |           |
| Cadmium, dissolved                                                             | < 0.000010     | 0.000010 | mg/L  | 2025-04-27 |           |
| Calcium, dissolved                                                             | <b>51.6</b>    | 0.20     | mg/L  | 2025-04-27 |           |
| Chromium, dissolved                                                            | <b>0.0152</b>  | 0.00050  | mg/L  | 2025-04-27 |           |
| Cobalt, dissolved                                                              | < 0.00010      | 0.00010  | mg/L  | 2025-04-27 |           |
| Copper, dissolved                                                              | < 0.00040      | 0.00040  | mg/L  | 2025-04-27 |           |
| Iron, dissolved                                                                | < 0.010        | 0.010    | mg/L  | 2025-04-27 |           |
| Lead, dissolved                                                                | < 0.00020      | 0.00020  | mg/L  | 2025-04-27 |           |
| Lithium, dissolved                                                             | <b>0.00081</b> | 0.00010  | mg/L  | 2025-04-27 |           |
| Magnesium, dissolved                                                           | <b>32.2</b>    | 0.010    | mg/L  | 2025-04-27 |           |
| Manganese, dissolved                                                           | < 0.00020      | 0.00020  | mg/L  | 2025-04-27 |           |
| Mercury, dissolved                                                             | < 0.000010     | 0.000010 | mg/L  | 2025-04-25 |           |
| Molybdenum, dissolved                                                          | <b>0.00354</b> | 0.00010  | mg/L  | 2025-04-27 |           |
| Nickel, dissolved                                                              | < 0.00040      | 0.00040  | mg/L  | 2025-04-27 |           |
| Phosphorus, dissolved                                                          | < 0.050        | 0.050    | mg/L  | 2025-04-27 |           |
| Potassium, dissolved                                                           | <b>1.62</b>    | 0.10     | mg/L  | 2025-04-27 |           |
| Selenium, dissolved                                                            | <b>0.00106</b> | 0.00050  | mg/L  | 2025-04-27 |           |
| Silicon, dissolved                                                             | <b>13.4</b>    | 1.0      | mg/L  | 2025-04-27 |           |
| Silver, dissolved                                                              | < 0.000050     | 0.000050 | mg/L  | 2025-04-27 |           |
| Sodium, dissolved                                                              | <b>30.7</b>    | 0.10     | mg/L  | 2025-04-27 |           |
| Strontium, dissolved                                                           | <b>0.327</b>   | 0.0010   | mg/L  | 2025-04-27 |           |
| Sulfur, dissolved                                                              | <b>5.0</b>     | 3.0      | mg/L  | 2025-04-27 |           |
| Tellurium, dissolved                                                           | < 0.00050      | 0.00050  | mg/L  | 2025-04-27 |           |
| Thallium, dissolved                                                            | < 0.000020     | 0.000020 | mg/L  | 2025-04-27 |           |

## TEST RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                                                                   | Result         | RL       | Units      | Analyzed   | Qualifier |
|-------------------------------------------------------------------------------------------|----------------|----------|------------|------------|-----------|
| <b>PW652 (25D3181-01)   Matrix: Drinking Water   Sampled: 2025-04-23 08:30, Continued</b> |                |          |            |            |           |
| <i>Dissolved Metals, Continued</i>                                                        |                |          |            |            |           |
| Thorium, dissolved                                                                        | < 0.00010      | 0.00010  | mg/L       | 2025-04-27 |           |
| Tin, dissolved                                                                            | < 0.00020      | 0.00020  | mg/L       | 2025-04-27 |           |
| Titanium, dissolved                                                                       | < 0.0050       | 0.0050   | mg/L       | 2025-04-27 |           |
| Tungsten, dissolved                                                                       | < 0.0010       | 0.0010   | mg/L       | 2025-04-27 |           |
| Uranium, dissolved                                                                        | <b>0.00497</b> | 0.000020 | mg/L       | 2025-04-27 |           |
| Vanadium, dissolved                                                                       | < 0.0050       | 0.0050   | mg/L       | 2025-04-27 |           |
| Zinc, dissolved                                                                           | < 0.0040       | 0.0040   | mg/L       | 2025-04-27 |           |
| Zirconium, dissolved                                                                      | < 0.00010      | 0.00010  | mg/L       | 2025-04-27 |           |
| <i>General Parameters</i>                                                                 |                |          |            |            |           |
| Adsorbable Organic Halides                                                                | <b>8</b>       | 6        | µg/L       | 2025-04-28 | CST2, CT5 |
| Alkalinity, Total (as CaCO <sub>3</sub> )                                                 | <b>266</b>     | 1.0      | mg/L       | 2025-04-26 |           |
| Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> )                                       | < 1.0          | 1.0      | mg/L       | 2025-04-26 |           |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                           | <b>266</b>     | 1.0      | mg/L       | 2025-04-26 |           |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                             | < 1.0          | 1.0      | mg/L       | 2025-04-26 |           |
| Alkalinity, Hydroxide (as CaCO <sub>3</sub> )                                             | < 1.0          | 1.0      | mg/L       | 2025-04-26 |           |
| Ammonia, Total (as N)                                                                     | < 0.050        | 0.050    | mg/L       | 2025-04-30 |           |
| Carbon, Total Organic                                                                     | < 0.50         | 0.50     | mg/L       | 2025-04-30 |           |
| Nitrogen, Total Kjeldahl                                                                  | < 0.050        | 0.050    | mg/L       | 2025-05-01 |           |
| Phosphorus, Dissolved Reactive                                                            | <b>0.0146</b>  | 0.0050   | mg/L       | 2025-04-26 |           |
| Solids, Total Suspended                                                                   | < 2.0          | 2.0      | mg/L       | 2025-04-30 |           |
| <i>Microbiological Parameters</i>                                                         |                |          |            |            |           |
| Coliforms, Total                                                                          | < 1            | 1        | CFU/100 mL | 2025-04-24 | HT3       |
| Coliforms, Fecal                                                                          | < 1            | 1        | CFU/100 mL | 2025-04-24 | HT3       |
| E. coli                                                                                   | < 1            | 1        | CFU/100 mL | 2025-04-24 | HT3       |
| <i>Total Metals</i>                                                                       |                |          |            |            |           |
| Aluminum, total                                                                           | < 0.0050       | 0.0050   | mg/L       | 2025-04-28 |           |
| Antimony, total                                                                           | < 0.00020      | 0.00020  | mg/L       | 2025-04-28 |           |
| Arsenic, total                                                                            | < 0.00050      | 0.00050  | mg/L       | 2025-04-28 |           |
| Barium, total                                                                             | <b>0.0604</b>  | 0.0050   | mg/L       | 2025-04-28 |           |
| Beryllium, total                                                                          | < 0.00010      | 0.00010  | mg/L       | 2025-04-28 |           |
| Bismuth, total                                                                            | < 0.00010      | 0.00010  | mg/L       | 2025-04-28 |           |
| Boron, total                                                                              | < 0.0500       | 0.0500   | mg/L       | 2025-04-28 |           |
| Cadmium, total                                                                            | < 0.000010     | 0.000010 | mg/L       | 2025-04-28 |           |
| Calcium, total                                                                            | <b>52.8</b>    | 0.20     | mg/L       | 2025-04-28 |           |
| Chromium, total                                                                           | <b>0.0160</b>  | 0.00050  | mg/L       | 2025-04-28 |           |
| Cobalt, total                                                                             | < 0.00010      | 0.00010  | mg/L       | 2025-04-28 |           |
| Copper, total                                                                             | < 0.00040      | 0.00040  | mg/L       | 2025-04-28 |           |
| Iron, total                                                                               | < 0.010        | 0.010    | mg/L       | 2025-04-28 |           |
| Lead, total                                                                               | < 0.00020      | 0.00020  | mg/L       | 2025-04-28 |           |
| Lithium, total                                                                            | <b>0.00072</b> | 0.00010  | mg/L       | 2025-04-28 |           |
| Magnesium, total                                                                          | <b>33.4</b>    | 0.010    | mg/L       | 2025-04-28 |           |

## TEST RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte | Result | RL | Units | Analyzed | Qualifier |
|---------|--------|----|-------|----------|-----------|
|---------|--------|----|-------|----------|-----------|

### PW652 (25D3181-01) | Matrix: Drinking Water | Sampled: 2025-04-23 08:30, Continued

#### Total Metals, Continued

|                   |            |          |      |            |  |
|-------------------|------------|----------|------|------------|--|
| Manganese, total  | 0.00021    | 0.00020  | mg/L | 2025-04-28 |  |
| Mercury, total    | < 0.000010 | 0.000010 | mg/L | 2025-04-25 |  |
| Molybdenum, total | 0.00404    | 0.00010  | mg/L | 2025-04-28 |  |
| Nickel, total     | < 0.00040  | 0.00040  | mg/L | 2025-04-28 |  |
| Phosphorus, total | < 0.050    | 0.050    | mg/L | 2025-04-28 |  |
| Potassium, total  | 1.52       | 0.10     | mg/L | 2025-04-28 |  |
| Selenium, total   | 0.00109    | 0.00050  | mg/L | 2025-04-28 |  |
| Silicon, total    | 11.1       | 1.0      | mg/L | 2025-04-28 |  |
| Silver, total     | < 0.000050 | 0.000050 | mg/L | 2025-04-28 |  |
| Sodium, total     | 31.3       | 0.10     | mg/L | 2025-04-28 |  |
| Strontium, total  | 0.331      | 0.0010   | mg/L | 2025-04-28 |  |
| Sulfur, total     | 5.3        | 3.0      | mg/L | 2025-04-28 |  |
| Tellurium, total  | < 0.00050  | 0.00050  | mg/L | 2025-04-28 |  |
| Thallium, total   | < 0.000020 | 0.000020 | mg/L | 2025-04-28 |  |
| Thorium, total    | < 0.00010  | 0.00010  | mg/L | 2025-04-28 |  |
| Tin, total        | < 0.00020  | 0.00020  | mg/L | 2025-04-28 |  |
| Titanium, total   | < 0.0050   | 0.0050   | mg/L | 2025-04-28 |  |
| Tungsten, total   | < 0.0010   | 0.0010   | mg/L | 2025-04-28 |  |
| Uranium, total    | 0.00620    | 0.000020 | mg/L | 2025-04-28 |  |
| Vanadium, total   | < 0.0050   | 0.0050   | mg/L | 2025-04-28 |  |
| Zinc, total       | < 0.0040   | 0.0040   | mg/L | 2025-04-28 |  |
| Zirconium, total  | < 0.00010  | 0.00010  | mg/L | 2025-04-28 |  |

#### Volatile Organic Compounds (VOC)

|                                 |          |        |      |            |  |
|---------------------------------|----------|--------|------|------------|--|
| Bromodichloromethane            | < 0.0010 | 0.0010 | mg/L | 2025-04-29 |  |
| Bromoform                       | < 0.0010 | 0.0010 | mg/L | 2025-04-29 |  |
| Chloroform                      | < 0.0010 | 0.0010 | mg/L | 2025-04-29 |  |
| Dibromochloromethane            | < 0.0010 | 0.0010 | mg/L | 2025-04-29 |  |
| Surrogate: Toluene-d8           | 78       | 70-130 | %    | 2025-04-29 |  |
| Surrogate: 4-Bromofluorobenzene | 75       | 70-130 | %    | 2025-04-29 |  |

#### Sample Qualifiers:

|      |                                                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CST2 | High breakthrough noted. Further dilution not possible as AOX result is close to the method detection limit. Breakthrough exceeds reporting requirements per reference method. |
| CT5  | This sample has been incorrectly preserved for AOX analysis                                                                                                                    |
| HT3  | Microbiological analysis was initiated beyond the maximum holding time of 30 hours. Results may not be valid.                                                                  |
| RA1  | The Reporting Limit for this sample has been raised due to matrix interference.                                                                                                |

## APPENDIX 1: SUPPORTING INFORMATION

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

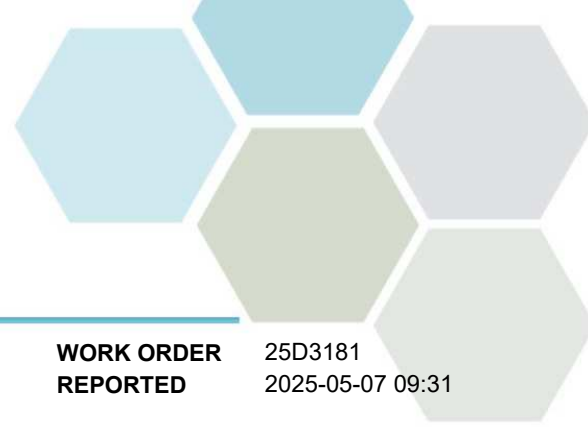
**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analysis Description                    | Method Ref.            | Technique                                                                            | Accredited | Location |
|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------|------------|----------|
| Adsorbable Organic Halides 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                                                                   | ✓          | Richmond |
| Carbon, Total Organic in Water          | SM 5310 B (2022)       | Combustion, Infrared CO2 Detection                                                   | ✓          | Kelowna  |
| Coliforms, Fecal in Water               | SM 9222 (2015)         | Membrane Filtration                                                                  |            | Sublet   |
| Coliforms, Total in Water               | SM 9222 (2015)         | Membrane Filtration                                                                  | ✓          | Sublet   |
| 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)        | Chromocult Agar                                                                      | ✓          | Sublet   |
| Hardness in Water                       | SM 2340 B (2021)       | Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]                                       | ✓          | N/A      |
| Hardness in Water                       | SM 2340 B* (2021)      | Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)                               | ✓          | 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  |
| Phosphorus, Dissolved Reactive in Water | SM 4500-P E (2021)     | Colorimetry (Ascorbic Acid)                                                          | ✓          | Richmond |
| Solids, Total Suspended in Water        | SM 2540 D* (2020)      | Gravimetry (Dried at 103-105C)                                                       | ✓          | Richmond |
| 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                                                                              |
| mg/L       | Milligrams per litre                                                                                                  |
| µg/L       | Micrograms per litre                                                                                                  |
| 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** 25D3181  
**REPORTED** 2025-05-07 09:31

### 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 not 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: [hhannaoui@caro.ca](mailto:hhannaoui@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.*

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

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 B5D3923

|                             |         |            |                                            |  |  |  |  |  |  |
|-----------------------------|---------|------------|--------------------------------------------|--|--|--|--|--|--|
| <b>Blank (B5D3923-BLK1)</b> |         |            | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |  |  |  |  |  |
| Bromide                     | < 0.1   | 0.1 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 |                                            |  |  |  |  |  |  |
| Sulfate                     | < 1.0   | 1.0 mg/L   |                                            |  |  |  |  |  |  |

|                             |         |            |                                            |  |  |  |  |  |  |
|-----------------------------|---------|------------|--------------------------------------------|--|--|--|--|--|--|
| <b>Blank (B5D3923-BLK2)</b> |         |            | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |  |  |  |  |  |
| Bromide                     | < 0.1   | 0.1 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 |                                            |  |  |  |  |  |  |
| Sulfate                     | < 1.0   | 1.0 mg/L   |                                            |  |  |  |  |  |  |

|                          |      |            |                                            |  |     |        |  |  |  |
|--------------------------|------|------------|--------------------------------------------|--|-----|--------|--|--|--|
| <b>LCS (B5D3923-BS1)</b> |      |            | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |     |        |  |  |  |
| Bromide                  | 10.6 | 0.1 mg/L   | 10.0                                       |  | 106 | 85-115 |  |  |  |
| Chloride                 | 3.08 | 0.10 mg/L  | 3.00                                       |  | 103 | 85-115 |  |  |  |
| Fluoride                 | 2.02 | 0.10 mg/L  | 2.00                                       |  | 101 | 85-115 |  |  |  |
| Nitrate (as N)           | 3.18 | 0.010 mg/L | 3.00                                       |  | 106 | 85-115 |  |  |  |
| Nitrite (as N)           | 3.18 | 0.010 mg/L | 3.00                                       |  | 106 | 85-115 |  |  |  |
| Sulfate                  | 15.7 | 1.0 mg/L   | 15.0                                       |  | 105 | 85-115 |  |  |  |

|                          |      |            |                                            |  |     |        |  |  |  |
|--------------------------|------|------------|--------------------------------------------|--|-----|--------|--|--|--|
| <b>LCS (B5D3923-BS2)</b> |      |            | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |     |        |  |  |  |
| Bromide                  | 10.7 | 0.1 mg/L   | 10.0                                       |  | 107 | 85-115 |  |  |  |
| Chloride                 | 2.99 | 0.10 mg/L  | 3.00                                       |  | 100 | 85-115 |  |  |  |
| Fluoride                 | 2.07 | 0.10 mg/L  | 2.00                                       |  | 104 | 85-115 |  |  |  |
| Nitrate (as N)           | 3.16 | 0.010 mg/L | 3.00                                       |  | 105 | 85-115 |  |  |  |
| Nitrite (as N)           | 3.22 | 0.010 mg/L | 3.00                                       |  | 107 | 85-115 |  |  |  |
| Sulfate                  | 16.0 | 1.0 mg/L   | 15.0                                       |  | 106 | 85-115 |  |  |  |

### Dissolved Metals, Batch B5D3996

|                             |            |               |                                            |  |  |  |  |  |  |
|-----------------------------|------------|---------------|--------------------------------------------|--|--|--|--|--|--|
| <b>Blank (B5D3996-BLK1)</b> |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |  |  |  |  |  |
| Mercury, dissolved          | < 0.000010 | 0.000010 mg/L |                                            |  |  |  |  |  |  |

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                           | Result     | RL Units      | Spike Level                                | Source Result | % REC | REC Limit | % RPD | RPD Limit | Qualifier |
|---------------------------------------------------|------------|---------------|--------------------------------------------|---------------|-------|-----------|-------|-----------|-----------|
| <b>Dissolved Metals, Batch B5D3996, Continued</b> |            |               |                                            |               |       |           |       |           |           |
| <b>Blank (B5D3996-BLK2)</b>                       |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | < 0.000010 | 0.000010 mg/L |                                            |               |       |           |       |           |           |
| <b>Blank (B5D3996-BLK3)</b>                       |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | < 0.000010 | 0.000010 mg/L |                                            |               |       |           |       |           |           |
| <b>Blank (B5D3996-BLK4)</b>                       |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | < 0.000010 | 0.000010 mg/L |                                            |               |       |           |       |           |           |
| <b>LCS (B5D3996-BS1)</b>                          |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | 0.00231    | 0.000010 mg/L | 0.00250                                    |               | 93    | 80-120    |       |           |           |
| <b>LCS (B5D3996-BS2)</b>                          |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | 0.00240    | 0.000010 mg/L | 0.00250                                    |               | 96    | 80-120    |       |           |           |
| <b>LCS (B5D3996-BS3)</b>                          |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | 0.00204    | 0.000010 mg/L | 0.00250                                    |               | 81    | 80-120    |       |           |           |
| <b>LCS (B5D3996-BS4)</b>                          |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |               |       |           |       |           |           |
| Mercury, dissolved                                | 0.00184    | 0.000010 mg/L | 0.00250                                    |               | 74    | 80-120    |       |           | SPK1      |

### Dissolved Metals, Batch B5D4069

|                             |            |               |                                            |  |  |  |  |  |  |
|-----------------------------|------------|---------------|--------------------------------------------|--|--|--|--|--|--|
| <b>Blank (B5D4069-BLK1)</b> |            |               | Prepared: 2025-04-27, Analyzed: 2025-04-27 |  |  |  |  |  |  |
| 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 |                                            |  |  |  |  |  |  |

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                           | Result    | RL Units      | Spike Level | Source Result | % REC                                      | REC Limit | % RPD | RPD Limit | Qualifier |
|---------------------------------------------------|-----------|---------------|-------------|---------------|--------------------------------------------|-----------|-------|-----------|-----------|
| <b>Dissolved Metals, Batch B5D4069, Continued</b> |           |               |             |               |                                            |           |       |           |           |
| <b>Blank (B5D4069-BLK1), Continued</b>            |           |               |             |               | Prepared: 2025-04-27, Analyzed: 2025-04-27 |           |       |           |           |
| Vanadium, dissolved                               | < 0.0050  | 0.0050 mg/L   |             |               |                                            |           |       |           |           |
| Zinc, dissolved                                   | < 0.0040  | 0.0040 mg/L   |             |               |                                            |           |       |           |           |
| Zirconium, dissolved                              | < 0.00010 | 0.00010 mg/L  |             |               |                                            |           |       |           |           |
| <b>LCS (B5D4069-BS1)</b>                          |           |               |             |               | Prepared: 2025-04-27, Analyzed: 2025-04-27 |           |       |           |           |
| Aluminum, dissolved                               | 3.94      | 0.0050 mg/L   | 4.00        |               | 99                                         | 80-120    |       |           |           |
| Antimony, dissolved                               | 0.0387    | 0.00020 mg/L  | 0.0400      |               | 97                                         | 80-120    |       |           |           |
| Arsenic, dissolved                                | 0.398     | 0.00050 mg/L  | 0.400       |               | 100                                        | 80-120    |       |           |           |
| Barium, dissolved                                 | 0.0385    | 0.0050 mg/L   | 0.0400      |               | 96                                         | 80-120    |       |           |           |
| Beryllium, dissolved                              | 0.0393    | 0.00010 mg/L  | 0.0400      |               | 98                                         | 80-120    |       |           |           |
| Bismuth, dissolved                                | 0.0393    | 0.00010 mg/L  | 0.0400      |               | 98                                         | 80-120    |       |           |           |
| Boron, dissolved                                  | 0.402     | 0.0500 mg/L   | 0.400       |               | 101                                        | 80-120    |       |           |           |
| Cadmium, dissolved                                | 0.0387    | 0.000010 mg/L | 0.0400      |               | 97                                         | 80-120    |       |           |           |
| Calcium, dissolved                                | 3.92      | 0.20 mg/L     | 4.00        |               | 98                                         | 80-120    |       |           |           |
| Chromium, dissolved                               | 0.0398    | 0.00050 mg/L  | 0.0400      |               | 99                                         | 80-120    |       |           |           |
| Cobalt, dissolved                                 | 0.0397    | 0.00010 mg/L  | 0.0400      |               | 99                                         | 80-120    |       |           |           |
| Copper, dissolved                                 | 0.0398    | 0.00040 mg/L  | 0.0400      |               | 100                                        | 80-120    |       |           |           |
| Iron, dissolved                                   | 3.91      | 0.010 mg/L    | 4.00        |               | 98                                         | 80-120    |       |           |           |
| Lead, dissolved                                   | 0.0386    | 0.00020 mg/L  | 0.0400      |               | 96                                         | 80-120    |       |           |           |
| Lithium, dissolved                                | 0.0399    | 0.00010 mg/L  | 0.0400      |               | 100                                        | 80-120    |       |           |           |
| Magnesium, dissolved                              | 4.10      | 0.010 mg/L    | 4.00        |               | 102                                        | 80-120    |       |           |           |
| Manganese, dissolved                              | 0.0397    | 0.00020 mg/L  | 0.0400      |               | 99                                         | 80-120    |       |           |           |
| Molybdenum, dissolved                             | 0.0389    | 0.00010 mg/L  | 0.0400      |               | 97                                         | 80-120    |       |           |           |
| Nickel, dissolved                                 | 0.0396    | 0.00040 mg/L  | 0.0400      |               | 99                                         | 80-120    |       |           |           |
| Phosphorus, dissolved                             | 4.01      | 0.050 mg/L    | 4.00        |               | 100                                        | 80-120    |       |           |           |
| Potassium, dissolved                              | 4.01      | 0.10 mg/L     | 4.00        |               | 100                                        | 80-120    |       |           |           |
| Selenium, dissolved                               | 0.394     | 0.00050 mg/L  | 0.400       |               | 99                                         | 80-120    |       |           |           |
| Silicon, dissolved                                | 4.0       | 1.0 mg/L      | 4.00        |               | 101                                        | 80-120    |       |           |           |
| Silver, dissolved                                 | 0.0388    | 0.000050 mg/L | 0.0400      |               | 97                                         | 80-120    |       |           |           |
| Sodium, dissolved                                 | 4.00      | 0.10 mg/L     | 4.00        |               | 100                                        | 80-120    |       |           |           |
| Strontium, dissolved                              | 0.0401    | 0.0010 mg/L   | 0.0400      |               | 100                                        | 80-120    |       |           |           |
| Sulfur, dissolved                                 | 39.9      | 3.0 mg/L      | 40.0        |               | 100                                        | 80-120    |       |           |           |
| Tellurium, dissolved                              | 0.0389    | 0.00050 mg/L  | 0.0400      |               | 97                                         | 80-120    |       |           |           |
| Thallium, dissolved                               | 0.0385    | 0.000020 mg/L | 0.0400      |               | 96                                         | 80-120    |       |           |           |
| Thorium, dissolved                                | 0.0380    | 0.00010 mg/L  | 0.0400      |               | 95                                         | 80-120    |       |           |           |
| Tin, dissolved                                    | 0.0397    | 0.00020 mg/L  | 0.0400      |               | 99                                         | 80-120    |       |           |           |
| Titanium, dissolved                               | 0.0404    | 0.0050 mg/L   | 0.0400      |               | 101                                        | 80-120    |       |           |           |
| Tungsten, dissolved                               | 0.0379    | 0.0010 mg/L   | 0.0400      |               | 95                                         | 80-120    |       |           |           |
| Uranium, dissolved                                | 0.0389    | 0.000020 mg/L | 0.0400      |               | 97                                         | 80-120    |       |           |           |
| Vanadium, dissolved                               | 0.0397    | 0.0050 mg/L   | 0.0400      |               | 99                                         | 80-120    |       |           |           |
| Zinc, dissolved                                   | 0.399     | 0.0040 mg/L   | 0.400       |               | 100                                        | 80-120    |       |           |           |
| Zirconium, dissolved                              | 0.0396    | 0.00010 mg/L  | 0.0400      |               | 99                                         | 80-120    |       |           |           |

### General Parameters, Batch B5D4021

|                                                     |       |          |                                            |  |  |  |  |  |  |
|-----------------------------------------------------|-------|----------|--------------------------------------------|--|--|--|--|--|--|
| <b>Blank (B5D4021-BLK1)</b>                         |       |          | Prepared: 2025-04-26, Analyzed: 2025-04-26 |  |  |  |  |  |  |
| Alkalinity, Total (as CaCO <sub>3</sub> )           | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> ) | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| Alkalinity, Hydroxide (as CaCO <sub>3</sub> )       | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| <b>Blank (B5D4021-BLK2)</b>                         |       |          | Prepared: 2025-04-26, Analyzed: 2025-04-26 |  |  |  |  |  |  |
| Alkalinity, Total (as CaCO <sub>3</sub> )           | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> ) | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | < 1.0 | 1.0 mg/L |                                            |  |  |  |  |  |  |

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                             | Result   | RL Units    | Spike Level | Source Result                              | % REC | REC Limit | % RPD | RPD Limit | Qualifier |
|-----------------------------------------------------|----------|-------------|-------------|--------------------------------------------|-------|-----------|-------|-----------|-----------|
| <b>General Parameters, Batch B5D4021, Continued</b> |          |             |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4021-BLK2), Continued</b>              |          |             |             | Prepared: 2025-04-26, Analyzed: 2025-04-26 |       |           |       |           |           |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | < 1.0    | 1.0 mg/L    |             |                                            |       |           |       |           |           |
| Alkalinity, Hydroxide (as CaCO <sub>3</sub> )       | < 1.0    | 1.0 mg/L    |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4021-BS1)</b>                            |          |             |             | Prepared: 2025-04-26, Analyzed: 2025-04-26 |       |           |       |           |           |
| Alkalinity, Total (as CaCO <sub>3</sub> )           | 88.7     | 1.0 mg/L    | 100         |                                            | 89    | 80-120    |       |           |           |
| <b>LCS (B5D4021-BS3)</b>                            |          |             |             | Prepared: 2025-04-26, Analyzed: 2025-04-26 |       |           |       |           |           |
| Alkalinity, Total (as CaCO <sub>3</sub> )           | 88.4     | 1.0 mg/L    | 100         |                                            | 88    | 80-120    |       |           |           |
| <b>General Parameters, Batch B5D4033</b>            |          |             |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4033-BLK1)</b>                         |          |             |             | Prepared: 2025-04-26, Analyzed: 2025-04-26 |       |           |       |           |           |
| Phosphorus, Dissolved Reactive                      | < 0.0050 | 0.0050 mg/L |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4033-BS1)</b>                            |          |             |             | Prepared: 2025-04-26, Analyzed: 2025-04-26 |       |           |       |           |           |
| Phosphorus, Dissolved Reactive                      | 0.0350   | 0.0050 mg/L | 0.0320      |                                            | 110   | 75-125    |       |           |           |
| <b>General Parameters, Batch B5D4127</b>            |          |             |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4127-BLK1)</b>                         |          |             |             | Prepared: 2025-04-23, Analyzed: 2025-04-30 |       |           |       |           |           |
| Carbon, Total Organic                               | < 0.50   | 0.50 mg/L   |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4127-BLK2)</b>                         |          |             |             | Prepared: 2025-04-28, Analyzed: 2025-04-30 |       |           |       |           |           |
| Carbon, Total Organic                               | < 0.50   | 0.50 mg/L   |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4127-BLK3)</b>                         |          |             |             | Prepared: 2025-04-29, Analyzed: 2025-04-30 |       |           |       |           |           |
| Carbon, Total Organic                               | < 0.50   | 0.50 mg/L   |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4127-BS1)</b>                            |          |             |             | Prepared: 2025-04-23, Analyzed: 2025-04-30 |       |           |       |           |           |
| Carbon, Total Organic                               | 9.30     | 0.50 mg/L   | 10.0        |                                            | 93    | 78-116    |       |           |           |
| <b>LCS (B5D4127-BS2)</b>                            |          |             |             | Prepared: 2025-04-28, Analyzed: 2025-04-30 |       |           |       |           |           |
| Carbon, Total Organic                               | 9.43     | 0.50 mg/L   | 10.0        |                                            | 94    | 78-116    |       |           |           |
| <b>LCS (B5D4127-BS3)</b>                            |          |             |             | Prepared: 2025-04-29, Analyzed: 2025-04-30 |       |           |       |           |           |
| Carbon, Total Organic                               | 9.29     | 0.50 mg/L   | 10.0        |                                            | 93    | 78-116    |       |           |           |
| <b>General Parameters, Batch B5D4432</b>            |          |             |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4432-BLK1)</b>                         |          |             |             | Prepared: 2025-04-30, Analyzed: 2025-04-30 |       |           |       |           |           |
| Ammonia, Total (as N)                               | 0.021    | 0.010 mg/L  |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4432-BS1)</b>                            |          |             |             | Prepared: 2025-04-30, Analyzed: 2025-04-30 |       |           |       |           |           |
| Ammonia, Total (as N)                               | 0.979    | 0.010 mg/L  | 1.00        |                                            | 98    | 85-115    |       |           |           |
| <b>General Parameters, Batch B5D4495</b>            |          |             |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4495-BLK1)</b>                         |          |             |             | Prepared: 2025-04-30, Analyzed: 2025-05-01 |       |           |       |           |           |
| Nitrogen, Total Kjeldahl                            | < 0.050  | 0.050 mg/L  |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4495-BLK2)</b>                         |          |             |             | Prepared: 2025-04-30, Analyzed: 2025-05-01 |       |           |       |           |           |
| Nitrogen, Total Kjeldahl                            | < 0.050  | 0.050 mg/L  |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4495-BS1)</b>                            |          |             |             | Prepared: 2025-04-30, Analyzed: 2025-05-01 |       |           |       |           |           |
| Nitrogen, Total Kjeldahl                            | 1.02     | 0.050 mg/L  | 1.00        |                                            | 102   | 85-115    |       |           |           |

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

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

### General Parameters, Batch B5D4495, Continued

|                          |      |            |                                            |  |     |        |  |  |  |
|--------------------------|------|------------|--------------------------------------------|--|-----|--------|--|--|--|
| <b>LCS (B5D4495-BS2)</b> |      |            | Prepared: 2025-04-30, Analyzed: 2025-05-01 |  |     |        |  |  |  |
| Nitrogen, Total Kjeldahl | 1.05 | 0.050 mg/L | 1.00                                       |  | 105 | 85-115 |  |  |  |

### General Parameters, Batch B5D4501

|                             |       |          |                                            |  |    |        |  |  |  |
|-----------------------------|-------|----------|--------------------------------------------|--|----|--------|--|--|--|
| <b>Blank (B5D4501-BLK1)</b> |       |          | Prepared: 2025-05-02, Analyzed: 2025-05-02 |  |    |        |  |  |  |
| Solids, Total Suspended     | < 2.0 | 2.0 mg/L |                                            |  |    |        |  |  |  |
| <b>LCS (B5D4501-BS1)</b>    |       |          | Prepared: 2025-05-02, Analyzed: 2025-05-02 |  |    |        |  |  |  |
| Solids, Total Suspended     | 95.0  | 5.0 mg/L | 100                                        |  | 95 | 83-107 |  |  |  |

### Total Metals, Batch B5D3996

|                             |            |               |                                            |  |    |        |  |  |      |
|-----------------------------|------------|---------------|--------------------------------------------|--|----|--------|--|--|------|
| <b>Blank (B5D3996-BLK1)</b> |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | < 0.000010 | 0.000010 mg/L |                                            |  |    |        |  |  |      |
| <b>Blank (B5D3996-BLK2)</b> |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | < 0.000010 | 0.000010 mg/L |                                            |  |    |        |  |  |      |
| <b>Blank (B5D3996-BLK3)</b> |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | < 0.000010 | 0.000010 mg/L |                                            |  |    |        |  |  |      |
| <b>Blank (B5D3996-BLK4)</b> |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | < 0.000010 | 0.000010 mg/L |                                            |  |    |        |  |  |      |
| <b>LCS (B5D3996-BS1)</b>    |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | 0.00231    | 0.000010 mg/L | 0.00250                                    |  | 93 | 80-120 |  |  |      |
| <b>LCS (B5D3996-BS2)</b>    |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | 0.00240    | 0.000010 mg/L | 0.00250                                    |  | 96 | 80-120 |  |  |      |
| <b>LCS (B5D3996-BS3)</b>    |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | 0.00204    | 0.000010 mg/L | 0.00250                                    |  | 81 | 80-120 |  |  |      |
| <b>LCS (B5D3996-BS4)</b>    |            |               | Prepared: 2025-04-25, Analyzed: 2025-04-25 |  |    |        |  |  |      |
| Mercury, total              | 0.00184    | 0.000010 mg/L | 0.00250                                    |  | 74 | 80-120 |  |  | SPK1 |

### Total Metals, Batch B5D4054

|                             |            |               |                                            |  |  |  |  |  |  |
|-----------------------------|------------|---------------|--------------------------------------------|--|--|--|--|--|--|
| <b>Blank (B5D4054-BLK1)</b> |            |               | Prepared: 2025-04-26, Analyzed: 2025-04-28 |  |  |  |  |  |  |
| 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  |                                            |  |  |  |  |  |  |
| Iron, total                 | < 0.010    | 0.010 mg/L    |                                            |  |  |  |  |  |  |
| Lead, total                 | < 0.00020  | 0.00020 mg/L  |                                            |  |  |  |  |  |  |
| Lithium, total              | < 0.00010  | 0.00010 mg/L  |                                            |  |  |  |  |  |  |
| Magnesium, total            | < 0.010    | 0.010 mg/L    |                                            |  |  |  |  |  |  |
| Manganese, total            | < 0.00020  | 0.00020 mg/L  |                                            |  |  |  |  |  |  |

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                       | Result     | RL Units      | Spike Level | Source Result                              | % REC | REC Limit | % RPD | RPD Limit | Qualifier |
|-----------------------------------------------|------------|---------------|-------------|--------------------------------------------|-------|-----------|-------|-----------|-----------|
| <b>Total Metals, Batch B5D4054, Continued</b> |            |               |             |                                            |       |           |       |           |           |
| <b>Blank (B5D4054-BLK1), Continued</b>        |            |               |             | Prepared: 2025-04-26, Analyzed: 2025-04-28 |       |           |       |           |           |
| 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  |             |                                            |       |           |       |           |           |
| Thallium, total                               | < 0.000020 | 0.000020 mg/L |             |                                            |       |           |       |           |           |
| Thorium, total                                | < 0.00010  | 0.00010 mg/L  |             |                                            |       |           |       |           |           |
| Tin, total                                    | < 0.00020  | 0.00020 mg/L  |             |                                            |       |           |       |           |           |
| Titanium, total                               | < 0.0050   | 0.0050 mg/L   |             |                                            |       |           |       |           |           |
| Tungsten, total                               | < 0.0010   | 0.0010 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  |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4054-BS1)</b>                      |            |               |             | Prepared: 2025-04-26, Analyzed: 2025-04-28 |       |           |       |           |           |
| Aluminum, total                               | 3.76       | 0.0050 mg/L   | 4.00        |                                            | 94    | 80-120    |       |           |           |
| Antimony, total                               | 0.0386     | 0.00020 mg/L  | 0.0400      |                                            | 97    | 80-120    |       |           |           |
| Arsenic, total                                | 0.394      | 0.00050 mg/L  | 0.400       |                                            | 98    | 80-120    |       |           |           |
| Barium, total                                 | 0.0400     | 0.0050 mg/L   | 0.0400      |                                            | 100   | 80-120    |       |           |           |
| Beryllium, total                              | 0.0366     | 0.00010 mg/L  | 0.0400      |                                            | 92    | 80-120    |       |           |           |
| Bismuth, total                                | 0.0395     | 0.00010 mg/L  | 0.0400      |                                            | 99    | 80-120    |       |           |           |
| Boron, total                                  | 0.384      | 0.0500 mg/L   | 0.400       |                                            | 96    | 80-120    |       |           |           |
| Cadmium, total                                | 0.0393     | 0.000010 mg/L | 0.0400      |                                            | 98    | 80-120    |       |           |           |
| Calcium, total                                | 3.99       | 0.20 mg/L     | 4.00        |                                            | 100   | 80-120    |       |           |           |
| Chromium, total                               | 0.0398     | 0.00050 mg/L  | 0.0400      |                                            | 99    | 80-120    |       |           |           |
| Cobalt, total                                 | 0.0400     | 0.00010 mg/L  | 0.0400      |                                            | 100   | 80-120    |       |           |           |
| Copper, total                                 | 0.0393     | 0.00040 mg/L  | 0.0400      |                                            | 98    | 80-120    |       |           |           |
| Iron, total                                   | 3.92       | 0.010 mg/L    | 4.00        |                                            | 98    | 80-120    |       |           |           |
| Lead, total                                   | 0.0400     | 0.00020 mg/L  | 0.0400      |                                            | 100   | 80-120    |       |           |           |
| Lithium, total                                | 0.0361     | 0.00010 mg/L  | 0.0400      |                                            | 90    | 80-120    |       |           |           |
| Magnesium, total                              | 3.79       | 0.010 mg/L    | 4.00        |                                            | 95    | 80-120    |       |           |           |
| Manganese, total                              | 0.0395     | 0.00020 mg/L  | 0.0400      |                                            | 99    | 80-120    |       |           |           |
| Molybdenum, total                             | 0.0395     | 0.00010 mg/L  | 0.0400      |                                            | 99    | 80-120    |       |           |           |
| Nickel, total                                 | 0.0411     | 0.00040 mg/L  | 0.0400      |                                            | 103   | 80-120    |       |           |           |
| Phosphorus, total                             | 3.79       | 0.050 mg/L    | 4.00        |                                            | 95    | 80-120    |       |           |           |
| Potassium, total                              | 3.81       | 0.10 mg/L     | 4.00        |                                            | 95    | 80-120    |       |           |           |
| Selenium, total                               | 0.398      | 0.00050 mg/L  | 0.400       |                                            | 99    | 80-120    |       |           |           |
| Silicon, total                                | 4.0        | 1.0 mg/L      | 4.00        |                                            | 101   | 80-120    |       |           |           |
| Silver, total                                 | 0.0393     | 0.000050 mg/L | 0.0400      |                                            | 98    | 80-120    |       |           |           |
| Sodium, total                                 | 3.84       | 0.10 mg/L     | 4.00        |                                            | 96    | 80-120    |       |           |           |
| Strontium, total                              | 0.0393     | 0.0010 mg/L   | 0.0400      |                                            | 98    | 80-120    |       |           |           |
| Sulfur, total                                 | 39.0       | 3.0 mg/L      | 40.0        |                                            | 98    | 80-120    |       |           |           |
| Tellurium, total                              | 0.0376     | 0.00050 mg/L  | 0.0400      |                                            | 94    | 80-120    |       |           |           |
| Thallium, total                               | 0.0393     | 0.000020 mg/L | 0.0400      |                                            | 98    | 80-120    |       |           |           |
| Thorium, total                                | 0.0397     | 0.00010 mg/L  | 0.0400      |                                            | 99    | 80-120    |       |           |           |
| Tin, total                                    | 0.0387     | 0.00020 mg/L  | 0.0400      |                                            | 97    | 80-120    |       |           |           |
| Titanium, total                               | 0.0378     | 0.0050 mg/L   | 0.0400      |                                            | 95    | 80-120    |       |           |           |
| Tungsten, total                               | 0.0406     | 0.0010 mg/L   | 0.0400      |                                            | 102   | 80-120    |       |           |           |
| Uranium, total                                | 0.0402     | 0.000020 mg/L | 0.0400      |                                            | 101   | 80-120    |       |           |           |

## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Prince George, City of - Pump Station  
Raw Water - PW 652

**WORK ORDER REPORTED** 25D3181  
2025-05-07 09:31

| Analyte                                       | Result | RL Units     | Spike Level | Source Result                              | % REC | REC Limit | % RPD | RPD Limit | Qualifier |
|-----------------------------------------------|--------|--------------|-------------|--------------------------------------------|-------|-----------|-------|-----------|-----------|
| <b>Total Metals, Batch B5D4054, Continued</b> |        |              |             |                                            |       |           |       |           |           |
| <b>LCS (B5D4054-BS1), Continued</b>           |        |              |             | Prepared: 2025-04-26, Analyzed: 2025-04-28 |       |           |       |           |           |
| Vanadium, total                               | 0.0395 | 0.0050 mg/L  | 0.0400      |                                            | 99    | 80-120    |       |           |           |
| Zinc, total                                   | 0.391  | 0.0040 mg/L  | 0.400       |                                            | 98    | 80-120    |       |           |           |
| Zirconium, total                              | 0.0390 | 0.00010 mg/L | 0.0400      |                                            | 98    | 80-120    |       |           |           |

### Volatile Organic Compounds (VOC), Batch B5D4280

|                                 |          |             |        |                                            |    |        |  |  |  |
|---------------------------------|----------|-------------|--------|--------------------------------------------|----|--------|--|--|--|
| <b>Blank (B5D4280-BLK1)</b>     |          |             |        | Prepared: 2025-04-29, Analyzed: 2025-04-29 |    |        |  |  |  |
| Bromodichloromethane            | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Bromoform                       | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Chloroform                      | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Dibromochloromethane            | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Surrogate: Toluene-d8           | 0.0198   | mg/L        | 0.0250 |                                            | 79 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 0.0187   | mg/L        | 0.0249 |                                            | 75 | 70-130 |  |  |  |

|                                 |          |             |        |                                            |    |        |  |  |  |
|---------------------------------|----------|-------------|--------|--------------------------------------------|----|--------|--|--|--|
| <b>Blank (B5D4280-BLK2)</b>     |          |             |        | Prepared: 2025-04-30, Analyzed: 2025-04-30 |    |        |  |  |  |
| Bromodichloromethane            | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Bromoform                       | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Chloroform                      | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Dibromochloromethane            | < 0.0010 | 0.0010 mg/L |        |                                            |    |        |  |  |  |
| Surrogate: Toluene-d8           | 0.0183   | mg/L        | 0.0250 |                                            | 73 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 0.0173   | mg/L        | 0.0249 |                                            | 70 | 70-130 |  |  |  |

|                                 |        |             |        |                                            |     |        |  |  |  |
|---------------------------------|--------|-------------|--------|--------------------------------------------|-----|--------|--|--|--|
| <b>LCS (B5D4280-BS1)</b>        |        |             |        | Prepared: 2025-04-29, Analyzed: 2025-04-29 |     |        |  |  |  |
| Bromodichloromethane            | 0.0202 | 0.0010 mg/L | 0.0201 |                                            | 101 | 70-130 |  |  |  |
| Bromoform                       | 0.0192 | 0.0010 mg/L | 0.0201 |                                            | 95  | 70-130 |  |  |  |
| Chloroform                      | 0.0196 | 0.0010 mg/L | 0.0201 |                                            | 97  | 70-130 |  |  |  |
| Dibromochloromethane            | 0.0183 | 0.0010 mg/L | 0.0201 |                                            | 91  | 70-130 |  |  |  |
| Surrogate: Toluene-d8           | 0.0206 | mg/L        | 0.0250 |                                            | 82  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 0.0242 | mg/L        | 0.0249 |                                            | 97  | 70-130 |  |  |  |

|                                 |        |             |        |                                            |    |        |  |  |  |
|---------------------------------|--------|-------------|--------|--------------------------------------------|----|--------|--|--|--|
| <b>LCS (B5D4280-BS3)</b>        |        |             |        | Prepared: 2025-04-30, Analyzed: 2025-04-30 |    |        |  |  |  |
| Bromodichloromethane            | 0.0194 | 0.0010 mg/L | 0.0201 |                                            | 96 | 70-130 |  |  |  |
| Bromoform                       | 0.0183 | 0.0010 mg/L | 0.0201 |                                            | 91 | 70-130 |  |  |  |
| Chloroform                      | 0.0190 | 0.0010 mg/L | 0.0201 |                                            | 94 | 70-130 |  |  |  |
| Dibromochloromethane            | 0.0176 | 0.0010 mg/L | 0.0201 |                                            | 88 | 70-130 |  |  |  |
| Surrogate: Toluene-d8           | 0.0206 | mg/L        | 0.0250 |                                            | 82 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 0.0228 | mg/L        | 0.0249 |                                            | 92 | 70-130 |  |  |  |

#### QC Qualifiers:

SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.