## Laboratory Report

**Report For:** City of Prince George  
**Received:** 11/21/2021 13:48  
**Report ID:** 21J2885  
**Report Name:** 21J2885_FINAL_WaterTrax_21_Nov_21_1347.txt

### Sample ID: 21J2885-01

- **Water System:** Core Water System  
- **Source:** PW 601 Well  
- **Facility:** PW 601 Well Pumphouse  
- **Sampling Pt.:** PW 601 Pumphouse raw water (PW601-1-SR, DBB1)  
- **Comment:** Generated by File Transfer  
- **Sampled:** 10/20/2021 12:00

<table>
<thead>
<tr>
<th>INORGANIC</th>
<th>Criteria &amp; Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum (dissolved)</td>
<td>&lt; 0.0050 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Aluminum (total)</td>
<td>&lt; 0.0050 mg/L</td>
<td>&lt;=0.1 Operational - Conventional</td>
</tr>
<tr>
<td>Ammonia (total, as N)</td>
<td>&lt; 0.050 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Antimony (dissolved)</td>
<td>&lt; 0.00020 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Antimony (total)</td>
<td>0.00023 mg/L</td>
<td>&lt;=0.006 MAC</td>
</tr>
<tr>
<td>Arsenic (dissolved)</td>
<td>0.00055 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Arsenic (total)</td>
<td>0.00053 mg/L</td>
<td>Current Level</td>
</tr>
<tr>
<td>Barium (dissolved)</td>
<td>0.0196 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Barium (total)</td>
<td>0.0189 mg/L</td>
<td>&lt;=2 MAC</td>
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<tr>
<td>Beryllium (dissolved)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
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<tr>
<td>Beryllium (total)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Bismuth (dissolved)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Bismuth (total)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Boron (dissolved)</td>
<td>&lt; 0.0500 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Boron (total)</td>
<td>&lt; 0.0500 mg/L</td>
<td>&lt;=5 MAC</td>
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<tr>
<td>Bromide</td>
<td>&lt; 0.10 mg/L</td>
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<tr>
<td>Cadmium (dissolved)</td>
<td>0.000012 mg/L</td>
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<tr>
<td>Cadmium (total)</td>
<td>0.000014 mg/L</td>
<td>&lt;=0.005 MAC</td>
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<tr>
<td>Calcium (dissolved)</td>
<td>29.4 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Calcium (total)</td>
<td>33.1 mg/L</td>
<td>Final</td>
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<tr>
<td>Chloride</td>
<td>5.12 mg/L</td>
<td>&lt;=250 AO</td>
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<tr>
<td>Chromium (extractable)</td>
<td>&lt; 0.00050 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Chromium (total)</td>
<td>&lt; 0.00050 mg/L</td>
<td>&lt;=0.05 MAC</td>
</tr>
<tr>
<td>Cobalt (dissolved)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Cobalt (total)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Copper (extractable)</td>
<td>0.00085 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Copper (total)</td>
<td>0.00087 mg/L</td>
<td>&lt;=1 AO</td>
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<tr>
<td>Fluoride</td>
<td>&lt; 0.10 mg/L</td>
<td>&lt;=1.5 MAC</td>
</tr>
<tr>
<td>Iron (dissolved)</td>
<td>&lt; 0.010 mg/L</td>
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<tr>
<td>Iron (total)</td>
<td>&lt; 0.010 mg/L</td>
<td>&lt;=0.3 AO</td>
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<tr>
<td>Lead (dissolved)</td>
<td>&lt; 0.00020 mg/L</td>
<td>Final</td>
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</tbody>
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Report created on 11/23/2021 08:13:40  
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### INORGANIC

<table>
<thead>
<tr>
<th>Substance</th>
<th>Criteria &amp; Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (total)</td>
<td>&lt; 0.00020 mg/L</td>
<td>&lt;=0.005 MAC Final</td>
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<tr>
<td>Lithium (dissolved)</td>
<td>0.00087 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Lithium (total)</td>
<td>0.00107 mg/L</td>
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<tr>
<td>Magnesium (dissolved)</td>
<td>9.16 mg/L</td>
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<tr>
<td>Magnesium (total)</td>
<td>9.34 mg/L</td>
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<tr>
<td>Manganese (dissolved)</td>
<td>0.00982 mg/L</td>
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<tr>
<td>Manganese (total)</td>
<td>0.00926 mg/L</td>
<td>&lt;=0.02 AO Final</td>
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<tr>
<td>Mercury (dissolved)</td>
<td>&lt; 0.000010 mg/L</td>
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<tr>
<td>Mercury (total)</td>
<td>&lt; 0.000010 mg/L</td>
<td>&lt;=0.001 MAC Final</td>
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<tr>
<td>Molybdenum (dissolved)</td>
<td>0.00107 mg/L</td>
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<tr>
<td>Molybdenum (total)</td>
<td>0.00095 mg/L</td>
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<tr>
<td>Nickel (dissolved)</td>
<td>0.00066 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Nickel (total)</td>
<td>&lt; 0.00040 mg/L</td>
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</tr>
<tr>
<td>Nitrate (as N)</td>
<td>0.060 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Nitrate + Nitrite (as N)</td>
<td>0.0605 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Nitrite (as N)</td>
<td>&lt; 0.010 mg/L</td>
<td>Final</td>
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<tr>
<td>o-Phosphate (as P)</td>
<td>&lt; 0.0050 mg/L</td>
<td>Final</td>
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<tr>
<td>Phosphorus (total dissolved)</td>
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<tr>
<td>Phosphorus (total)</td>
<td>&lt; 0.050 mg/L</td>
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<tr>
<td>Potassium (dissolved)</td>
<td>1.32 mg/L</td>
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<tr>
<td>Potassium (total)</td>
<td>1.33 mg/L</td>
<td>Final</td>
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<tr>
<td>Selenium (dissolved)</td>
<td>0.00087 mg/L</td>
<td>Final</td>
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<td>Selenium (total)</td>
<td>0.00076 mg/L</td>
<td>&lt;=0.05 MAC Final</td>
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<tr>
<td>Silicon (dissolved, as Si)</td>
<td>6.0 mg/L</td>
<td>Final</td>
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<tr>
<td>Silicon (total, as Si)</td>
<td>6.4 mg/L</td>
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<tr>
<td>Silver (dissolved)</td>
<td>&lt; 0.000050 mg/L</td>
<td>Final</td>
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<tr>
<td>Silver (total)</td>
<td>&lt; 0.000050 mg/L</td>
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<tr>
<td>Sodium (dissolved)</td>
<td>3.61 mg/L</td>
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<td>Sodium (total)</td>
<td>3.67 mg/L</td>
<td>&lt;=200 AO Final</td>
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<tr>
<td>Strontium (dissolved)</td>
<td>0.120 mg/L</td>
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<tr>
<td>Strontium (total)</td>
<td>0.135 mg/L</td>
<td>Final</td>
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<tr>
<td>Sulfur (dissolved)</td>
<td>&lt; 3.0 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Sulfur (total)</td>
<td>&lt; 3.0 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Sulphate</td>
<td>7.9 mg/L</td>
<td>&lt;=500 AO Final</td>
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<tr>
<td>Tellurium (dissolved)</td>
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<td>Final</td>
</tr>
<tr>
<td>Tellurium (total)</td>
<td>&lt; 0.00050 mg/L</td>
<td>Final</td>
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</tbody>
</table>
## Laboratory Report

**Sample ID:** 21J2885-01 (continued)  
**Water System:** Core Water System  
**Source:** PW 601 Well  
**Facility:** PW 601 Well Pumphouse  
**Sampling Pt:** PW 601 Pumphouse raw water (PW601-1-SR, DBB1)  
**Comment:** Generated by File Transfer  
**Sampled:** 10/20/2021 12:00

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<table>
<thead>
<tr>
<th>Substance</th>
<th>Criteria &amp; Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thallium (dissolved)</td>
<td>&lt; 0.000020 mg/L</td>
<td>Final</td>
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<tr>
<td>Thallium (total)</td>
<td>&lt; 0.000020 mg/L</td>
<td>Final</td>
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<tr>
<td>Thorium (dissolved)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
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<tr>
<td>Thorium (total)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
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<tr>
<td>Tin (dissolved)</td>
<td>&lt; 0.00020 mg/L</td>
<td>Final</td>
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<tr>
<td>Tin (total)</td>
<td>&lt; 0.00020 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Titanium (dissolved)</td>
<td>&lt; 0.0050 mg/L</td>
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</tr>
<tr>
<td>Titanium (total)</td>
<td>&lt; 0.0050 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Tungsten (dissolved)</td>
<td>&lt; 0.0010 mg/L</td>
<td>Final</td>
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<tr>
<td>Tungsten (total)</td>
<td>&lt; 0.0010 mg/L</td>
<td>Final</td>
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<tr>
<td>Uranium (dissolved)</td>
<td>0.000223 mg/L</td>
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<tr>
<td>Vanadium (dissolved)</td>
<td>&lt; 0.0010 mg/L</td>
<td>Final</td>
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<tr>
<td>Vanadium (total)</td>
<td>0.0011 mg/L</td>
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<tr>
<td>Zinc (dissolved)</td>
<td>&lt; 0.0040 mg/L</td>
<td>Final</td>
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<tr>
<td>Zinc (total)</td>
<td>&lt; 0.0040 mg/L</td>
<td>&lt;=5 AU</td>
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<tr>
<td>Zirconium (dissolved)</td>
<td>&lt; 0.00010 mg/L</td>
<td>Final</td>
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<tr>
<td>Zirconium (total)</td>
<td>&lt; 0.00010 mg/L</td>
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### MICROORGANISMS

<table>
<thead>
<tr>
<th>Substance</th>
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<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escherichia coli / E. coli (counts)</td>
<td>&lt; 1 CFU/100ml</td>
<td>&lt;=0.0G</td>
</tr>
<tr>
<td>Fecal (thermal tolerant) Coliforms (counts)</td>
<td>&lt; 1 CFU/100ml</td>
<td>&lt;=0</td>
</tr>
<tr>
<td>Total Coliforms (counts)</td>
<td>&lt; 1 CFU/100ml</td>
<td>&lt;=0.0G</td>
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</tbody>
</table>

### ORGANIC

<table>
<thead>
<tr>
<th>Substance</th>
<th>Criteria &amp; Type</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Adsorbable Organic Halides / AOX</td>
<td>&lt; 50 ug/L</td>
<td>Final</td>
</tr>
<tr>
<td>Bromodichloromethane (dichlorobromomethane)</td>
<td>&lt; 0.0010 mg/L</td>
<td>&lt;=0.1 IMAC for TTHM expressed as a running annual average</td>
</tr>
<tr>
<td>Bromoform</td>
<td>&lt; 0.0010 mg/L</td>
<td>&lt;=0.1 IMAC for TTHM expressed as a running annual average</td>
</tr>
<tr>
<td>Chloroform</td>
<td>&lt; 0.0010 mg/L</td>
<td>&lt;=0.1 Standard for TTHM expressed as a running annual average</td>
</tr>
<tr>
<td>Dibromochloromethane (Chlorodibromomethane)</td>
<td>&lt; 0.0010 mg/L</td>
<td>&lt;=0.1 IMAC for TTHM expressed as a running annual average</td>
</tr>
<tr>
<td>Nitrogen (Total) (total)</td>
<td>0.0605 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Total Kjeldahl Nitrogen / TKN</td>
<td>&lt; 0.050 mg/L</td>
<td>Final</td>
</tr>
</tbody>
</table>
Laboratory Report

Sample ID: 21J2885-01 (continued)
Water System: Core Water System
Source: PW 601 Well
Facility: PW 601 Well Pumphouse
Sampling Pt: PW 601 Pumphouse raw water (PW601-1-SR, DBB1)
Comment: Generated by File Transfer
Sampled: 10/20/2021 12:00

<table>
<thead>
<tr>
<th>ORGANIC</th>
<th>Criteria &amp; Type</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Total Trihalomethanes / TTHM</td>
<td>&lt;=0.1  IMAC based on running annual average</td>
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<table>
<thead>
<tr>
<th>PHYSICAL</th>
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<tbody>
<tr>
<td>Alkalinity (bicarbonate, as CaCO3)</td>
<td>122 mg/L</td>
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</tr>
<tr>
<td>Alkalinity (carbonate, as CaCO3)</td>
<td>&lt; 1.0 mg/L</td>
<td>Final</td>
</tr>
<tr>
<td>Alkalinity (hydroxide, as CaCO3)</td>
<td>&lt; 1.0 mg/L</td>
<td>Final</td>
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<tr>
<td>Alkalinity (phenolphthalein, as CaCO3)</td>
<td>&lt; 1.0 mg/L</td>
<td>Final</td>
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<tr>
<td>Alkalinity (total, as CaCO3)</td>
<td>122 mg/L</td>
<td>Final</td>
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<tr>
<td>Hardness (total, as CaCO3)</td>
<td>111 mg/L</td>
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<tr>
<td>Hardness (total, as CaCO3)</td>
<td>121 mg/L</td>
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<tr>
<td>Total Suspended Solids / TSS</td>
<td>&lt; 2.0 mg/L</td>
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<table>
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<th>RADIONUCLIDES</th>
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</thead>
<tbody>
<tr>
<td>Uranium (total)</td>
<td>0.000226 mg/L</td>
<td>&lt;=0.02</td>
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</tbody>
</table>

Result Legend
P=present, A=absent, PR= presumptive, ND=non-detect, OR=over-range, OG=overgrown, Y=yes, N=no,
TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment
< means less than lower detection limit shown
> means greater than upper detection limit shown
« means detected & less than number shown
» means detected & greater than number shown
* Indicates Criteria is exceeded