# Water Sciences Laboratory
## Analyte/Protocol Price List
### 2019

## Standard Method :: Water

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Analyte</th>
<th>Reporting Level</th>
<th>Protocol Cost</th>
<th>NU Cost (20% discount)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Major elemental cations</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Protocol ID: 01_02_01</td>
<td>Calcium</td>
<td>0.1 mg/L</td>
<td>$11.00*</td>
<td>$8.80*</td>
</tr>
<tr>
<td></td>
<td>Magnesium</td>
<td>0.1 mg/L</td>
<td></td>
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<tr>
<td></td>
<td>Potassium</td>
<td>0.1 mg/L</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Sodium</td>
<td>0.1 mg/L</td>
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</tr>
<tr>
<td><strong>Sample Container:</strong> 125 mL polyethylene bottle</td>
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<tr>
<td><strong>Sample Size:</strong> 50 mL</td>
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</tr>
<tr>
<td><strong>Preservation:</strong> Add nitric acid to pH &lt; 2, Cool, &lt; 6°C</td>
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</tr>
<tr>
<td><strong>Holding Time:</strong> 28 Days</td>
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</tr>
<tr>
<td><strong>Estimated Turnaround Time:</strong> 6-8 Weeks</td>
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<tr>
<td><strong>Ammonia-N</strong></td>
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<tr>
<td>Protocol ID: 02_01_01</td>
<td>Ammonia-N</td>
<td>0.01 mg/L</td>
<td>$13.20</td>
<td>$10.56</td>
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<tr>
<td>Reference: &quot;EPA 103A Ammonia-N in Drinking and Surface Waters, Domestic and Industrial Wastes&quot;.</td>
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<tr>
<td><strong>Sample Container:</strong> 125 mL polyethylene bottle</td>
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<tr>
<td><strong>Sample Size:</strong> 50 mL</td>
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<td></td>
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</tr>
<tr>
<td><strong>Preservation:</strong> Add sulfuric acid to pH &lt; 2, Cool, &lt; 6°C</td>
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<tr>
<td><strong>Holding Time:</strong> 28 Days</td>
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<tr>
<td><strong>Estimated Turnaround Time:</strong> 6-8 Weeks</td>
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</tr>
<tr>
<td><strong>Nitrate-N with nitrite-N subtraction</strong></td>
<td></td>
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<tr>
<td>Protocol ID: 02_02_01</td>
<td>Nitrate-N</td>
<td>0.01 mg-N/L</td>
<td>$13.75</td>
<td>$11.00</td>
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<tr>
<td>Reference: (1993), &quot;EPA 353.2 Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry&quot;.</td>
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<tr>
<td><strong>Sample Container:</strong> 125 mL polyethylene bottle</td>
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<tr>
<td><strong>Sample Size:</strong> 250 mL</td>
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</tbody>
</table>

Turnaround times are subject to existing sample queues.   Reporting Limits are subject to verification   * = protocol cost is per analyte   & = add digestion cost of $8/sample
<table>
<thead>
<tr>
<th>Protocol</th>
<th>Analyte</th>
<th>Reporting Level</th>
<th>Protocol Cost</th>
<th>NU Cost (20% discount)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nitrate-N+nitrite-N</strong></td>
<td>Nitrate-N</td>
<td>0.01 mg/L</td>
<td>$13.20</td>
<td>$10.56</td>
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<tr>
<td>Protocol ID: 02_03_01</td>
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<tr>
<td>Reference: Seal Analytical &quot;EPA 127A Nitrate-N + Nitrite-N in Drinking and Surface Waters Domestic and Industrial Wastes&quot;.</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
<td>Sample Size: 250 mL</td>
<td>Preservation: Add sulfuric acid to pH &lt; 2, Cool, &lt; 6°C</td>
<td>Holding Time: 28 Days</td>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
</tr>
<tr>
<td><strong>Nitrite-N</strong></td>
<td>Nitrite-N</td>
<td>0.004 mg/L</td>
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<td>Protocol ID: 02_04_01</td>
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<tr>
<td>Reference: Seal Analytical (2009), &quot;EPA 116A Nitrite-N in Drinking Waters, and Domestic and Industrial Wastes&quot;.</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
<td>Sample Size: 250 mL</td>
<td>Preservation: Cool, &lt; 6°C</td>
<td>Holding Time: 2 Days</td>
<td>Estimated Turnaround Time: 2-3 Weeks</td>
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<tr>
<td><strong>Silica</strong></td>
<td>SiO2</td>
<td>0.2 mg/L</td>
<td>$13.20</td>
<td>$10.56</td>
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<tr>
<td>Protocol ID: 02_05_01</td>
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<tr>
<td>Reference: Seal Analytical (2009), &quot;EPA 232A Silica in Drinking, saline and surface waters, and Domestic and Industrial Wastes&quot;.</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
<td>Sample Size: 50 mL</td>
<td>Preservation: Cool, &lt; 6°C</td>
<td>Holding Time: 30 Days</td>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
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<th>Protocol Cost</th>
<th>NU Cost (20% discount)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Soluble phosphate</strong></td>
<td>Phosphate-P</td>
<td>0.02 mg/L</td>
<td><strong>$13.20</strong></td>
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<tr>
<td>Sample Size: 50 mL</td>
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<td></td>
</tr>
<tr>
<td>Preservation: Add sulfuric acid to pH &lt; 2, Cool, &lt; 6ºC</td>
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<tr>
<td>Holding Time: 2 Days</td>
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<tr>
<td>Estimated Turnaround Time: 2-3 Weeks</td>
<td></td>
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</tr>
<tr>
<td><strong>Total Kjeldahl phosphorus</strong></td>
<td>Total Kjeldahl Phosphorus</td>
<td>0.1 mg/L</td>
<td><strong>$27.50</strong></td>
<td><strong>$22.00</strong></td>
</tr>
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<td>Protocol ID: 02_08_01</td>
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<tr>
<td>Reference: Seal Analytical (2009), &quot;EPA 135A Total Phosphorus-P in Kjedahl Digests of Drinking water, domestic and Industrial Wastes (copper catalyst Method)&quot;. (1974), &quot;EPA 365.4 Phosphorous, Total (Colorimetric, Automated, Block Digester AA II)&quot;.</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 250 mL</td>
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</tr>
<tr>
<td>Preservation: Add sulfuric acid to pH &lt; 2, Cool, &lt; 6ºC</td>
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</tr>
<tr>
<td>Holding Time: 28 Days</td>
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<tr>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Total dissolved phosphorus</strong></td>
<td>Total Dissolved P</td>
<td>0.01 mg/L</td>
<td><strong>$22.00</strong></td>
<td><strong>$17.60</strong></td>
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<td>Protocol ID: 02_09_01</td>
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<tr>
<td>Reference: (1993), &quot;EPA 365.1 Determination of Phosphorus by Semi-Automated Colorimetry&quot;.</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 250 mL</td>
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<tr>
<td>Preservation: Add sulfuric acid to pH &lt; 2, Cool, &lt; 6ºC</td>
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</tr>
<tr>
<td>Holding Time: 28 Days</td>
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<tr>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Total nitrogen</strong></td>
<td>Total Nitrogen</td>
<td>0.05 mgN/L</td>
<td>$22.00</td>
<td>$17.60</td>
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<td>Protocol ID: 02_10_01</td>
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<td>Reference:</td>
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<tr>
<td>&quot;Standard Methods 4500P&quot;</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 50 mL</td>
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<tr>
<td>Preservation: Add sulfuric acid to pH &lt; 2, Cool, &lt; 6°C</td>
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<tr>
<td>Holding Time: 28 Days</td>
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<tr>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
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</tbody>
</table>

| **Total phosphorus**             | Total Phosphorus         | 0.02 mgP/L      | $22.00       | $17.60                 |
| Protocol ID: 02_11_01            |                          |                 |              |                        |
| Reference:                       |                          |                 |              |                        |
| Seal Analytical "EPA 119A Phosphorus-P, total, in Surface and Saline Waters and Domestic and Industrial". | |                 |              |                        |
| Sample Container: 125 mL polyethylene bottle |                      |                 |              |                        |
| Sample Size: 50 mL               |                          |                 |              |                        |
| Preservation: Add sulfuric acid to pH < 2, Cool, < 6°C | |                 |              |                        |
| Holding Time: 28 Days            |                          |                 |              |                        |
| Estimated Turnaround Time: 6-8 Weeks |                      |                 |              |                        |

| **Total Kjeldahl Nitrogen**      | Total Kjeldahl Nitrogen  | 0.2 mg N/L      | $27.50       | $22.00                 |
| Protocol ID: 02_13_01            |                          |                 |              |                        |
| Reference:                       |                          |                 |              |                        |
| "Standard Methods 4500N org - Semi-Micro", | |                 |              |                        |
| Sample Container: 125 mL polyethylene bottle |                      |                 |              |                        |
| Sample Size: 250 mL              |                          |                 |              |                        |
| Preservation: Add sulfuric acid to pH < 2, Cool, < 6°C | |                 |              |                        |
| Holding Time: 28 Days            |                          |                 |              |                        |
| Estimated Turnaround Time: 6-8 Weeks |                      |                 |              |                        |

| **Total dissolved nitrogen**     | TDN                      | 0.01 mg/L       | $22.00       | $17.60                 |
| Protocol ID: 02_14_01            |                          |                 |              |                        |
| Sample Container: 125 mL polyethylene bottle |                      |                 |              |                        |
| Sample Size: 250 mL              |                          |                 |              |                        |
| Preservation: Add sulfuric acid to pH < 2, Cool, < 6°C | |                 |              |                        |
| Holding Time: 28 Days            |                          |                 |              |                        |
| Estimated Turnaround Time: 6-8 Weeks |                      |                 |              |                        |

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<th>Reporting Level</th>
<th>Protocol Cost</th>
<th>NU Cost (20% discount)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical oxygen demand</strong></td>
<td>COD</td>
<td>25 mg/L</td>
<td>$22.00</td>
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<tr>
<td>Reference:</td>
<td>(1999), &quot;Standard Methods 5220D - Chemical Oxygen Demand, Closed Reflux, Colorimetric Method&quot;,</td>
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<tr>
<td>Sample Container:</td>
<td>40 mL septum vial</td>
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<tr>
<td>Sample Size:</td>
<td>250 mL</td>
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<tr>
<td>Preservation:</td>
<td>Add sulfuric acid to pH &lt; 2, Cool, &lt; 6°C</td>
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<td></td>
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</tr>
<tr>
<td>Holding Time:</td>
<td>28 Days</td>
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<tr>
<td>Estimated Turnaround Time:</td>
<td>6-8 Weeks</td>
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<tr>
<td><strong>Conductivity</strong></td>
<td>Conductivity</td>
<td>1 µS/cm</td>
<td>$8.80</td>
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<td>Reference:</td>
<td>&quot;Standard Methods 2510&quot;,</td>
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<td>Sample Size:</td>
<td>50 mL</td>
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</tr>
<tr>
<td>Preservation:</td>
<td>Cool, &lt; 6°C</td>
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<tr>
<td>Holding Time:</td>
<td>2 Days</td>
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<tr>
<td>Estimated Turnaround Time:</td>
<td>2-3 Weeks</td>
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<tr>
<td><strong>Dissolved oxygen</strong></td>
<td>DO</td>
<td>0.1 mg/L</td>
<td>$17.60</td>
<td>$14.08</td>
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<td>Reference:</td>
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<tr>
<td>Preservation:</td>
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<tr>
<td>Holding Time:</td>
<td>2 Days</td>
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<tr>
<td>Estimated Turnaround Time:</td>
<td>2-3 Weeks</td>
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<tr>
<td><strong>pH</strong></td>
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<td>Pending</td>
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<td>$8.80</td>
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<td>Protocol ID: 03_05_01</td>
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<tr>
<td>Sample Container:</td>
<td>125 mL polyethylene bottle</td>
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</thead>
<tbody>
<tr>
<td></td>
<td>Free chlorine</td>
<td>Free chlorine</td>
<td>Pending</td>
<td>$22.00</td>
</tr>
<tr>
<td></td>
<td>Total chlorine</td>
<td>Total chlorine</td>
<td>Pending</td>
<td>$22.00</td>
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<td></td>
<td></td>
<td></td>
<td>$17.60</td>
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<tr>
<td></td>
<td>Dissolved organic carbon</td>
<td>DOC</td>
<td>0.05 mg C/L</td>
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</tr>
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<td></td>
<td></td>
<td></td>
<td>$17.60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total organic carbon</td>
<td>TOC</td>
<td>0.05 mg C/L</td>
<td>$22.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$17.60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major anions</td>
<td>Bromide</td>
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<td>$27.50</td>
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<tr>
<td></td>
<td></td>
<td>Chloride</td>
<td>0.1 mg/L</td>
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<td></td>
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<td>Fluoride</td>
<td>0.1 mg/L</td>
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<tr>
<td></td>
<td></td>
<td>Nitrate-N</td>
<td>0.1 mg/L</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nitrite-N</td>
<td>0.1 mg/L</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phosphate-P</td>
<td>0.1 mg/L</td>
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</tr>
</tbody>
</table>

Sample Size: 50 mL
Preservation: None
Holding Time: 2-3 Weeks

Free chlorine
Protocol ID: 04_07_01
Sample Container: Pending
Sample Size: 250 mL
Preservation: Pending
Holding Time: 30 Days
Estimated Turnaround Time: 6-8 Weeks

Dissolved organic carbon
Protocol ID: 05_01_01
Sample Container: 40 mL septum vial
Sample Size: 40 mL
Preservation: Add sulfuric acid to pH < 2, Cool, < 6ºC
Holding Time: 28 Days
Estimated Turnaround Time: 6-8 Weeks

Total organic carbon
Protocol ID: 05_02_01
Sample Container: 40 mL septum vial
Sample Size: 40 mL
Preservation: Add sulfuric acid to pH < 2, Cool, < 6ºC
Holding Time: 28 Days
Estimated Turnaround Time: 6-8 Weeks

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<table>
<thead>
<tr>
<th>Protocol</th>
<th>Sample Container: 125 mL polyethylene bottle</th>
<th>Sample Size: 50 mL</th>
<th>Preservation: Cool, &lt; 6ºC</th>
<th>Holding Time: 30 Days</th>
<th>Estimated Turnaround Time: 6-8 Weeks</th>
</tr>
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<tbody>
<tr>
<td>Sulfate</td>
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<tr>
<td>Protocol</td>
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<tr>
<td>Analyte</td>
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<tr>
<td>Reporting Level</td>
<td>0.1 mg/L</td>
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<td>Protocol ID</td>
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<td>NH4-N</td>
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<td>$8.80</td>
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<tr>
<td>Reference</td>
<td>(2009), &quot;SM4500NH3 Ammonia (Phenolate) in Potable and Surface Waters&quot;,</td>
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<td>NO2+NO3-N</td>
<td>0.008 mg-N/L</td>
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<tr>
<td>Reference</td>
<td>(2000), &quot;EPA353.2 Determination of Nitrate/Nitrite in Surface and Wastewaters by Flow Injection Analysis&quot;.</td>
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<tr>
<td>Protocol ID</td>
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<td>TS</td>
<td>10 mg/L</td>
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<tr>
<td>Reference</td>
<td>(1997), &quot;EPA 2540B Total Solids Dried at 103-105ºC&quot;.</td>
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</table>

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<table>
<thead>
<tr>
<th>Protocol</th>
<th>Analyte</th>
<th>Reporting Level</th>
<th>Protocol Cost</th>
<th>NU Cost (20% discount)</th>
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<tbody>
<tr>
<td><strong>Total suspended solids</strong></td>
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<td>Reference: (1997), &quot;EPA 2540D Total Suspended Solids Dried at 103-105°C&quot;.</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 150 mL</td>
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<tr>
<td>Preservation: Cool, &lt; 6°C</td>
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<tr>
<td>Holding Time: 30 Days</td>
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<tr>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Turbidity</strong></td>
<td>Turbidity</td>
<td>0.1 NTU</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 50 mL</td>
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<tr>
<td>Preservation: Cool, &lt; 6°C</td>
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<tr>
<td>Holding Time: 30 Days</td>
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<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Total volatile solids</strong></td>
<td>TVS</td>
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<td>$7.04</td>
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<td>Protocol ID: 17_04_01</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 250 mL</td>
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<tr>
<td>Preservation: Cool, &lt; 6°C</td>
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<tr>
<td>Holding Time: 30 Days</td>
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<tr>
<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Volatile dissolved solids</strong></td>
<td>VDS</td>
<td>10 mg/L</td>
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<tr>
<td>Sample Container: 1 liter amber bottle</td>
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</tbody>
</table>

Turnaround times are subject to existing sample queues. Reporting Limits are subject to verification. *
protocol cost is per analyte & add digestion cost of $8/sample
| Protocol                          | Analyte               | Reporting Level | Protocol Cost | NU Cost
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Volatile suspended solids</strong></td>
<td>VSS</td>
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<td>$8.80</td>
<td>$7.04</td>
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<td>Protocol ID: 17_06_01</td>
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<tr>
<td>Reference:</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 250 mL</td>
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<td>Preservation: Cool, &lt; 6°C</td>
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<td>Holding Time: 30 Days</td>
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<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Water hardness by calculation</strong></td>
<td>Hardness (mgCaCO3/L)</td>
<td>0.05 mg/L</td>
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<td>Protocol ID: 17_07_01</td>
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<td>Reference:</td>
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<td>&quot;EPA 130.2 Hardness, Total (mg/L as CaCO3) (Titrimetric, EDTA)&quot;</td>
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<tr>
<td>Sample Container: 125 mL polyethylene bottle</td>
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<tr>
<td>Sample Size: 250 mL</td>
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<tr>
<td>Preservation: Add nitric acid to pH &lt; 2, Cool, &lt; 6°C</td>
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<tr>
<td>Holding Time: 28 Days</td>
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<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Oil and grease</strong></td>
<td>Oil and Grease</td>
<td>5 mg/L</td>
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<td>Reference:</td>
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<td>(2009), &quot;EPA 1664A Oil and Grease&quot;</td>
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<td>Sample Container: Pending</td>
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<tr>
<td>Sample Size: 900 mL</td>
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<tr>
<td>Preservation: Add sulfuric acid to pH &lt; 2, Cool, &lt; 6°C</td>
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<td>Holding Time: 28 Days</td>
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<td>Estimated Turnaround Time: 6-8 Weeks</td>
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</table>

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* = protocol cost is per analyte  
& = add digestion cost of $8/sample
<table>
<thead>
<tr>
<th>Protocol</th>
<th>Analyte</th>
<th>Reporting Level</th>
<th>Protocol Cost</th>
<th>NU Cost (20% discount)</th>
</tr>
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<tbody>
<tr>
<td><strong>Suspended sediment concentration</strong></td>
<td>SSC</td>
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<td>$11.00</td>
<td>$8.80</td>
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<td>(2013), &quot;ASTM D3977 - 97&quot;,</td>
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<td>Sample Container: 250 mL plastic bottle</td>
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<tr>
<td>Sample Size: 250 mL</td>
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<tr>
<td>Preservation: Cool, &lt; 6ºC</td>
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<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Total dissolved solids</strong></td>
<td>TDS</td>
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<td>(1999), &quot;EPA 160.1 Total Dissolved Solids (TDS)&quot;</td>
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<td>Sample Size: 125 mL</td>
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<td>Estimated Turnaround Time: 6-8 Weeks</td>
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<tr>
<td><strong>Potentiometric titration of alkalinity</strong></td>
<td>Alkalinity as CaCO3</td>
<td>10 mg/L</td>
<td>$16.50</td>
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<td>Alkalinity as HCO3</td>
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<td>&quot;Standard Methods 2320B&quot;,</td>
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<td>Sample Size: 200 mL</td>
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