



IDAHO DEPARTMENT OF HEALTH & WELFARE  
**DIVISION OF PUBLIC HEALTH**

<b>Test Title</b>	<b>EPA 300.0 Determination of Inorganic Anions by Ion Chromatography</b>
<b>Sample Requirements</b>	<ol style="list-style-type: none"><li>1. Sample type: Water</li><li>2. Minimum sample size: 100 mL</li><li>3. Maximum holding times before analysis:<ol style="list-style-type: none"><li>a. Fluoride, Chloride, Bromide, Sulfate: 28 days</li><li>b. Nitrate, Nitrite, ortho-Phosphate: 48 hours</li></ol></li><li>4. Samples must be stored refrigerated until shipment to Idaho Bureau of Laboratories (IBL).</li><li>5. Rejection criteria: Samples may not be analyzed if maximum holding time is exceeded or appropriate temperature is not maintained.</li></ol>
<b>Sampling Materials</b>	<ol style="list-style-type: none"><li>1. Sample container: Clean plastic container</li></ol> 
<b>Procedural Notes</b>	<ol style="list-style-type: none"><li>1. <a href="#">Drinking Water Analysis - Chemistry Test Request Form</a></li><li>2. Price:<ol style="list-style-type: none"><li>a. Fluoride, Chloride, Nitrite, Nitrate, Sulfate: \$19 (each)</li><li>b. Bromide: \$32</li><li>c. ortho-Phosphate: \$17</li></ol></li></ol>
<b>Shipping Instructions</b>	<ol style="list-style-type: none"><li>1. Temperature/preservative instructions: Samples must be shipped in a cooler on ice or frozen gel packs. Do not allow samples to freeze.</li><li>2. Ship to: Idaho Bureau of Laboratories <b>ATTENTION: Chemistry Section</b> 2220 Old Penitentiary Rd Boise, ID 83712</li></ol>
<b>Reporting and Turnaround Time (TAT)</b>	<ol style="list-style-type: none"><li>1. TAT: See below unless also submitted for other tests with longer turnaround times.<ol style="list-style-type: none"><li>a. Nitrite, Nitrate: 5 business days</li><li>b. Fluoride, Chloride, Bromide, ortho-Phosphate, Sulfate: 10 business days</li></ol></li><li>2. Results will be mailed unless other delivery means requested.</li></ol>

Table 1. Current Detection Limits Reported by IBL

<b>Analyte</b>	<b>Minimum Detection Limit (mg/L)</b>	<b>Minimum Reporting Limit (mg/L)</b>
Fluoride	0.045	0.200
Chloride	0.060	0.400
Nitrite as N	0.006	0.304
Bromide	0.032	0.800
Nitrate as N	0.009	0.181
o-Phosphate as P	0.019	0.391
Sulfate	0.018	0.800