- WAC 246-291-170 Water quality requirements for groundwater source approval. (1) All water quality samples collected under this section must be:
- (a) Collected without chlorine, ultraviolet light, ozone, or other disinfectant in use to treat the source;
- (b) Collected after the well has been pumped long enough to allow for collection of a representative sample of the aquifer, as described in the *Group B Water System Design Guidelines (2012)*; and
 - (c) Analyzed by a certified lab.
- (2) To meet the requirements for design approval under WAC 246-291-120, a purveyor shall obtain, at a minimum:
- (a) Satisfactory results from two raw source water samples analyzed for coliform bacteria;
- (b) Results from one raw source water sample that has been analyzed for, and does not exceed, any primary MCL in Table 2 of this section; and
- (c) In areas known or suspected to have contaminants of public health concern, one raw source water sample analyzed for the contaminant(s) as directed by the department or health officer.
- (3) When analytical results indicate a presence of coliform bacteria, a purveyor shall do the following:
- (a) Disinfect the source using procedures under WAC 246-291-220; and
- (b) Collect two repeat samples and analyze for coliform bacteria by a certified lab.
- (4) A purveyor shall collect a confirmation raw source water sample and have the sample analyzed for each parameter that exceeded the MCL in the initial sample, if:
- (a) An analysis exceeds a primary MCL in Table 2 of this section; or
- (b) A contaminant of public health concern under subsection (2)(c) of this section exceeds the primary MCL under WAC 246-290-310.
- (5) The department or health officer shall not approve the proposed source if:
- (a) The average concentration from all samples for each substance taken under this section exceeds a primary MCL in Table 2 of this section;
- (b) The repeat sample results collected under subsection (3) of this section indicate a presence of coliform bacteria; or
- (c) A contaminant of public health concern collected under this section exceeds the primary MCL under WAC 246-290-310.
- (6) When an analysis exceeds a secondary MCL in Table 3 or 4 of this section, a purveyor shall include treatment in the Group B system design under WAC 246-291-200 so that drinking water delivered to consumers does not exceed a secondary MCL.

Table 2
Primary Inorganic Chemical Contaminants

| Substance | MCLs (mg/L) |
|----------------|-------------|
| Antimony (Sb) | 0.006 |
| Arsenic (As) | 0.010* |
| Barium (Ba) | 2.0 |
| Beryllium (Be) | 0.004 |
| Cadmium (Cd) | 0.005 |
| Chromium (Cr) | 0.1 |

| Substance | MCLs (mg/L) |
|----------------|-------------|
| Cyanide (HCN) | 0.2 |
| Fluoride (F) | 4.0 |
| Mercury (Hg) | 0.002 |
| Nitrate (as N) | 10.0 |
| Nitrite (as N) | 1.0 |
| Selenium (Se) | 0.05 |
| Thallium (Tl) | 0.002 |

Note:

Table 3
Secondary Inorganic Chemical Contaminants

| Substance | MCLs (mg/L) |
|----------------------------|-------------|
| Chloride (Cl) | 250.0 |
| Fluoride (F) | 2.0 |
| Iron (Fe) | 0.3 |
| Manganese (Mn) | 0.05 |
| Silver (Ag) | 0.1 |
| Sulfate (SO ₄) | 250.0 |
| Zinc (Zn) | 5.0 |

Table 4
Secondary Physical Characteristics

| Substance | MCLs |
|------------------------------|----------------|
| Color | 15 color units |
| Specific conductivity | 700 umhos/cm |
| Total dissolved solids (TDS) | 500 mg/L |

[Statutory Authority: RCW 43.20.050 and chapter 70.119A RCW. WSR 12-24-070, § 246-291-170, filed 12/4/12, effective 1/1/14.]

^{*}The arsenic MCL in Table 2 applies to new and expanding Group B systems. For Group B systems constructed prior to January 1, 2014, the arsenic MCL is 0.05 mg/L. WAC 246-291-360 (3) and (4) establish public notification requirements for Group B systems constructed prior to January 1, 2014, with an arsenic concentration exceeding 0.010 mg/L.