

**WAC 246-290-460 Fluoridation of drinking water.** (1) Purveyors shall obtain written department approval of fluoridation treatment facilities before placing them in service and shall notify the department before discontinuing fluoridation.

(2) Where fluoridation is practiced, ~~((purveyors shall maintain fluoride concentrations in the range 0.8 through 1.3 mg/L throughout the distribution system))~~ the optimal fluoride concentration is 0.7 mg/L.

(3) ~~((Where fluoridation is practiced))~~ To ensure concentrations remain as close as possible to the optimal fluoride concentration throughout the entire distribution system and fluoridation facilities and monitoring equipment are operating properly, purveyors shall take the following actions ~~((to ensure that concentrations remain at optimal levels and that fluoridation facilities and monitoring equipment are operating properly))~~:

(a) Daily monitoring.

(i) Take ~~((daily))~~ monitoring samples every business day for each point of fluoride addition and analyze the fluoride concentration. Samples must be taken downstream from each fluoride injection point at the first sample tap where adequate mixing has occurred.

(ii) Record the results of daily analyses in a monthly report format acceptable to the department. A report must be made for each point of fluoride addition.

~~((iii))~~ (b) Monthly concentration averaging.

(i) Compute monthly average concentrations from monitoring results, or averages if more than one measurement is taken each day.

(ii) Submit monthly monitoring reports to the department within the first ten days of the month following the month in which the samples were collected.

~~((b))~~ (c) Monthly split sampling.

(i) Take a monthly split sample at the same location where routine daily monitoring samples are taken. A monthly split sample must be taken for each point of fluoride addition.

(ii) Analyze a portion of the sample and record the results on the lab sample submittal form and on the monthly report form.

(iii) Forward the remainder of the sample, along with the completed sample form to the state public health laboratory, or other state-certified laboratory, for fluoride analysis.

~~((iv) If a split sample is found by the certified lab to be:~~

~~(A) Not within the range of 0.8 to 1.3 mg/l, the purveyor's fluoridation process shall be considered out of compliance.~~

~~(B) Differing by more than 0.30 mg/l from the purveyor's analytical result, the purveyor's fluoride testing shall be considered out of control.)~~

(4) If any sample or measurement in subsection (3) of this section is found to be out of operating tolerance or off measure, the purveyor shall take appropriate corrective action.

(a) Operating tolerance means within the range of 0.6 to 1.0 mg/L.

(b) Off measure means the certified lab result differs by more than 0.2 mg/L from the purveyor's analytical result.

(5) Purveyors shall conduct analyses prescribed in subsection (3) of this section in accordance with procedures listed in the ~~((most re-~~

ent)) 22nd edition of *Standard Methods for the Examination of Water and Wastewater*, January 2012, or other department-approved procedures.

~~((5) The purveyor may be required by the department))~~ (6) The department may require the purveyor to increase the frequency, ~~((and/))~~ or change the location of sampling prescribed in subsection (3) of this section to ensure the adequacy and consistency of fluoridation.