

APPENDIX C
SAMPLING AND ANALYTICAL METHODOLOGY
FOR LEAD AND COPPER

701-C ANALYTICAL METHODS

- A. Analyses for lead, copper, pH, conductivity, calcium, alkalinity, orthophosphate, silica, and temperature shall be conducted with the methods in Appendix A § 403-A (A)(1).
1. Analyses for alkalinity, calcium, conductivity, orthophosphate, pH, silica, and temperature may be performed by any person acceptable to the Director. Analyses under this section for lead and copper shall only be conducted by laboratories that have been certified by the EPA. To obtain certification to conduct analyses for lead and copper, laboratories must:
 - a. Analyze performance evaluation samples which include lead and copper provided by EPA at least once a year by each method for which the laboratory desires certification; and
 - b. Achieve quantitative acceptance limits as follows:
 - i. Lead: $\pm 30\%$ of the actual amount in the Performance Evaluation sample when the actual amount is ≥ 0.005 mg/l. The Practical Quantitation Level, or PQL for lead is 0.005 mg/l.
 - ii. Copper: $\pm 10\%$ of the actual amount in the Performance Evaluation sample when the actual amount is ≥ 0.050 mg/l. The Practical Quantitation Level, or PQL for copper is 0.050 mg/l.
 - c. Achieve method detection limits for lead of 0.001 mg/L according to the procedures in Appendix B of 40 CFR Part 136. This need only be accomplished if the laboratory will be processing source water composite samples under § 712 (A)(1)(c).
 - d. Be currently certified by EPA to perform analyses to the specifications described in subsection (A)(2) of this section.
 2. The Director has the authority to allow the use of previously collected sampling data for purposes of sampling, if the data were collected and analyzed in accordance with the requirements of this section.
 3. All lead and copper levels measured between the PQL and the MDL must be either be reported as measured or they can be reported as one-half the PQL specified for lead and copper in subsection (A)(1)(b) of this section. All levels below the lead and copper MDLs must be reported as zero.
 4. All copper levels measured between the PQL and the MDL must be either reported as measured or they can be reported as one-half the PQL (0.025 mg/l). All levels below the copper MDL must be reported as zero.

§702-C SAMPLING FOR CORROSIVITY CHARACTERISTICS

A-C [Reserved]

- D. Community water systems shall identify whether the following construction materials are present in their distribution system and report to the Director:

Lead from piping, solder, caulking, interior lining of distribution mains, alloys and home plumbing.

Copper from piping and alloys, service lines, and home plumbing.

Galvanized piping, service lines, and home plumbing.

Ferrous piping material such as cast iron and steel.

Asbestos cement pipe.

In addition, the Director may require identification and reporting of other materials of construction present in distribution systems that may contribute contaminants to the drinking water, such as:

Vinyl lined asbestos cement pipe.

Coal tar lined pipes and tanks.