



Fact Sheet - Water Quality Parameters

For Initial Monitoring

(Ver 1.2, August 15, 2018)

Introduction

- The Lead and Copper Rule, which is applicable to Community and Nontransient Noncommunity Water Systems, requires Initial Water Quality Parameter (WQP) monitoring if the lead and/or copper action level is exceeded by a small or medium system.
- Initial WQP monitoring results will help the water system and the State:
 - Determine how corrosive the water supply is, and
 - Identify appropriate corrosion control treatment (CCT) options.
- The WQP monitoring requirement may be found at 40 CFR 141.87(b).

Initial WQP monitoring only applies to those systems, or treatment plants, that do not have CCT installed, and do not purchase CCT treated water.

Required Parameters	Sample Sites	Frequency														
<ul style="list-style-type: none"> pH Alkalinity Calcium Conductivity Temperature Orthophosphate and/or Silica¹ <p>¹ Orthophosphate (as P) and/or Silica must be measured only when an inhibitor containing either of these compounds is already in use for a purpose other than CCT of lead/copper.</p>	<ul style="list-style-type: none"> EPTDS: Each entry point to the distribution system (<u>including interconnections</u>) that is active during the monitoring period. DS: Representative sites throughout the distribution system (DS). The number of sites required is based on the population (see Table below). Sites already identified in the Revised Total Coliform Sampling Plan may provide an adequate pool of sites. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Residential Population</th> <th>Number of DS Sites</th> </tr> </thead> <tbody> <tr> <td>>100,000</td> <td>25</td> </tr> <tr> <td>10,001 to 100,000</td> <td>10</td> </tr> <tr> <td>3,301 to 10,000</td> <td>3</td> </tr> <tr> <td>501-3,300</td> <td>2</td> </tr> <tr> <td>101 to 500</td> <td>1</td> </tr> <tr> <td><100</td> <td>1</td> </tr> </tbody> </table>	Residential Population	Number of DS Sites	>100,000	25	10,001 to 100,000	10	3,301 to 10,000	3	501-3,300	2	101 to 500	1	<100	1	<ul style="list-style-type: none"> Two samples to be taken at each EPTDS, and at each DS site during the 6-month period starting from the <u>beginning</u> of the monitoring period in which the lead and/or copper action level was exceeded (Jan 1st – Jun 30th, Jul 1st – Dec 31st, or Jun 1st – Nov 30th). Samples must be collected after becoming aware of exceeding the action level and/or after the lead and copper tap samples were collected.
Residential Population	Number of DS Sites															
>100,000	25															
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Who Can Collect WQPs?

- WQP samples may be collected by a NJ certified drinking water laboratory or by an Approved Party, provided the samples are analyzed according to the methods in 40 CFR 141.23 (k)(1).
- An Approved Party is a “person acceptable to the state” and may be a licensed operator or someone trained by a licensed operator. If an Approved Party conducts the monitoring and analyses, proper calibrations and recordkeeping of all QAQC tasks must be kept on site and made available upon request.
- All WQP analytical results collected and analyzed by a certified lab shall be submitted electronically via E2. If the analysis is conducted by an Approved Party, the WQP analytical results shall be entered onto the *WQP Monitoring Report Form for Approved Party* form and emailed to watersupply@dep.nj.gov. The form and directions are available on the NJDEP webpage at: <http://www.nj.gov/dep/watersupply/dws-sampreg.html>.

Using WQP Data

- CCT Recommendations (CCTR) are required to be submitted within 6 months from the end of the monitoring period in which the lead and/or copper action level was exceeded.
- The CCTR will be based on the Initial WQP data collected and must include supporting data and justification for the CCT being recommended.
- NJDEP requires systems use EPA’s Optimal CCT Evaluation Technical Recommendations (March 2016) for CCTR.

Additional Resources:

DEP Lead in Drinking Water - Public Water System Information Including WQP Guidance:

<http://www.nj.gov/dep/watersupply/dwc-lead-public.html>

EPA WQP Compliance: <http://www.state.nj.us/dep/watersupply/pdf/wqp-guidance.pdf>

EPA Optimal CCT Evaluation: www.epa.gov/sites/production/files/2016-03/documents/occtmarch2016.pdf

For further assistance, please contact the Bureau of Water System Engineering at

609-292-2957 or watersupply@dep.nj.gov