



Drinking Water Permitting and Engineering

Checklist #3 – Submission of Pilot Study Plan or Treatability Study Plan and Review for New or Modified Surface Water System (Step 2 in Flowchart)

Public Water System Name: _____

This checklist is provided by the Georgia Environmental Protection Division (EPD) and is intended to assist public water systems in evaluating whether or not a particular new or alternate treatment (means, method and technology) or enhanced surface water treatment rules could be applicable in order to achieve compliance with the maximum contaminant levels or goals in accordance with [40 CFR Part 141.50 through 141.54](#), and [Section 391-3-5-.18 Primary Maximum Contaminant Levels for Drinking Water](#) and [Section 391-3-5-.19 Secondary Maximum Contaminant Levels for Drinking Water](#) of the Georgia Rules for Safe Drinking Water.

This checklist is not a substitute for Georgia Rules for Safe Drinking Water, Chapter 391-3-5 and cannot be accepted in lieu of the required engineering documents. Failure to submit the following items may delay project approval.

If you have any questions or inquiries regarding preparation, submissions and approval requirements for the Pilot Study, Treatability Study - Checklist #3, please contact the Division's Drinking Water Permitting and Engineering Unit at (404) 463-1511. Additional helpful information and rules are obtainable at the website <https://epd.georgia.gov/watershed-protection-branch-technical-guidance>.

New or Modification of Surface Water Treatment Facility for Permit Modification in Conformity with Rule [Section 391-3-5-.09\(1\)\(b\)1-3](#).

STEP 2: Submission of Pilot Study or Treatability Study Plan and Results in Conformity with Rule [Section 391-3-5-.09\(1\)\(b\)1-3](#).

- (1) Complete and submit drinking water project submittal form in accordance with Part 3 of the Georgia Minimum Standards for Public Water System. The project submittal form is available on the EPD's website <https://epd.georgia.gov/forms-permits/watershed-protection-branch-forms-permits/drinking-water-forms>

The following Pilot Plant Study or In-Plant Demonstration Study options are specific to the treatment type proposed so please consider carefully, and consult the appropriate section of the Georgia Minimum Standards for Public Water Systems.

- New conventional plant treatability study
- New or additional tube or plate settler clarification unit to existing water plant
- New or modified filtration rates (2 gal/min/ft² to 4 gal/min/ft²)
- High-Rate Pilot Study for Filter Rates Above 4 gpm/ft²
- Diatomaceous Earth Filtration System
- Direct filtration of surface water without prior settling of raw water source
- Membrane filtration
- Cartridge filters
- Other alternative technologies
- Post-Surface Water Treatment (Aeration, Iron & Manganese Control Treatment, Taste & Odor Control, Softening and/or Chemical Application)
- Submit the pilot plant or in-plant demonstration study plan which will be conducted over a sufficient time to treat all expected raw water conditions throughout the year in conformity to [Part 9.8.2 \(a\) and \(b\), Part 9.16.2](#) of the Georgia Minimum Standards for Public Water Systems.
- Submit documentation that the components and chemicals for the proposed treatment process conform to American National Standards Institute/NSF International (ANSI/NSF) Standard 60 for Drinking Water Treatment Chemicals and ANSI/NSF Standard 61 for Drinking Water System Components; in conformity to [Section 391-3-5-.04\(8\)\(a\)\(b\)](#) of the Georgia Rules for Safe Drinking Water.

Upon receipt of the pilot study or treatability study plan, (EPD) will send a letter of acknowledgment within 5 days of receipt of the public water system's pilot study or treatability study plan, and EPD will issue approval letter or request more information within 30 days, including the next step in the process in accordance with [Section 391-3-5-.09\(1\)\(b\)1.-2.](#) of the Georgia Rules for Safe Drinking Water.

Submittal of Pilot Study Report

- (2) Submit the quality of the raw water source for packaged plant, membrane plant technology, cartridge filters, and/or other alternate technologies in conformity to [Part 9.8.2 and Part 9.16.2](#) of the Georgia Minimum Standards for Public Water Systems.
- (3) Submit proof of disinfection treatment which accomplished the required level of log removal of **Giardia cysts and viruses and/or Cryptosporidium cysts, as specified by the**

drinking water standards in conformity to [Section 391-3-5-.09\(1\)\(p\)1.-3.](#) of the Georgia Rules for Safe Drinking Water.

- (4) Submit the study results upon completion in conformity to [Section 391-3-5-.09\(1\)\(b\)](#) of the Georgia Rules for Safe Drinking Water and [Part 9.8.2 and Part 9.16.2](#) of the Georgia Minimum Standards for Public Water Systems.

Upon complete review and acceptance of the pilot or treatability study results, EPD will send verification and conformity review approval letter in conformity to [Section 391-3-5-.09\(1\) \(p\)1.-3.](#) of the Georgia Rules for Safe Drinking Water to the public water system's engineer including the requirements for submission of construction plans and specifications pursuant to [Section 391-3-5-.05 \(4\)](#) of the Georgia Rules for Safe Drinking Water and [Part 1.6 Plans and Specification](#) of the Georgia Minimum Standards for Public Water Systems.