



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Bureau of Clean Water

Small Flow Treatment Facility Manual Updates and WQG-01 General Permit Updates

WRAC Meeting
October 30, 2019

Tom Wolf, Governor

Patrick McDonnell, Secretary

SFTF Manual and WQG-01

- Small Flow Treatment Facilities (SFTF) Manual
 - Systems with design flows < 2,000 gpd
 - Single Resident STP (SRSTP)
 - 915 SFTFs
- WQG-01
 - GP for construction and operation of SFTFs
 - Major Addition – Allowance of New Technologies

SFTF Manual Proposed Changes

- Include definitions
- Include organic design criteria
- PennDOT specifications for coarse aggregate
- Specifications for installation of building sewer
- Dosing frequencies
- Revised Sand Specifications
- Deletion of CO-OP RFS-III sand filter
- Addition of monitoring ports
- Addition of Advanced Alternate Technologies
- O&M for sand filters and disinfection

SFTF Proposed Changes

- Specifications for building sewer
 - Trenching, Bedding, and Backfill Standards
 - Joints
- Dosing Frequencies
 - Time dosing
 - Based on sand characteristics
 - Coarse Media w/less pore space – 12doses/day
 - ASTM C-33 w/more pore space - 4 doses/day

SFTF Proposed Changes

- Revisions to Sand Specifications
 - PENNDEOT Sand is for concrete not wastewater filtration
- Deletion of CO-OP RFS-III recirculating sand filter
- Addition of Monitoring ports to filter system monitoring and troubleshooting

Recognition of Proprietary System

- WQG-01 and SFTF Manual Major Addition
 - Technology reviewed under DEP's *Onlot Alternate Technology Listing* that achieve:
 - Advanced Secondary Treatment Standards (≤ 10 mg/L CBOD₅ and Suspended Solids)
 - fecal coliform level $\leq 200/100$ mL.

SFTF Proposed Changes

Operation and Maintenance Requirements

- O&M Provisions – Coordinated with PAG-04
 - Reporting period for Annual Maintenance Report
 - Solids Removal – change frequency for removing solids from dosing tanks and aerobic tanks to “as needed” instead of annually
 - Change effluent TRC range of 0.3 – 0.5 ppm from required to recommended

Questions

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