



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION



Bureau of Clean Water

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

## **SAC Meeting**

### **September 11, 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 system monitoring and troubleshooting

# Recognition of Proprietary Sys

- WQG-01 and SFTF Manual Major Addition
  - Technology reviewed under DEP's *Onlot Alternate Technology Listing* that achieve:
  - Advanced Secondary Treatment Standards ( $\leq 10$  mg/L CBOD<sub>5</sub> 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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