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
• Specifications for building sewer
  – Trenching, Bedding, and Backfill Standards
  – Joints

• Dosing Frequencies
  – Time dosing
  – Based on sand characteristics
    • Coarse Media w/less pore space – 12 doses/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 ($\leq 10$ mg/L CBOD$_5$ and Suspended Solids)
  – fecal coliform level $\leq 200/100$ mL.
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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