

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0054151
APS ID 1064164
Authorization ID 1397531

Applicant, Facility and Project Information

Applicant Name	<u>Tami O'Sullivan</u>	Facility Name	<u>O'Sullivan SRSTP</u>
Applicant Address	<u>7 Colledgeview Drive</u> <u>Malvern, PA 19355-1968</u>	Facility Address	<u>7 Colledgeview Drive</u> <u>Malvern, PA 19355-1968</u>
Applicant Contact	<u>Tami O'Sullivan</u>	Facility Contact	<u>Tami O'Sullivan</u>
Applicant Phone	<u>610-659-7124</u>	Facility Phone	<u>610-659-7124</u>
Client ID	<u>348520</u>	Site ID	<u>445498</u>
SIC Code	<u>4952</u>	Municipality	<u>East Whiteland Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Chester</u>
Date Application Received	<u>May 16, 2022</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u></u>
Project Description	<u>NPDES permit renewal.</u>		

Summary of Review


The PA Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from David Speicher and Tami O'Sullivan (permittee) for permittee's O'Sullivan SRSTP (facility) on May 16, 2022. The facility is located in East Whiteland Township, Chester County and serving permittee's single residence consisting of 3 bedrooms. The treated effluent discharges into a storm drain to an UNT to Ridley Creek (HQ-TSF, MF) in state watershed 3-G. The current permit was issued on July 19, 2017, transferred to current owner on May 20, 2019, and will expire on July 31, 2022. The terms and conditions of the current permit was administratively extended since the renewal application wasn't received at least 180 days prior to the expiration date. Renewal NPDES permit applications under Clean Water program are not covered by PADEP's PDG per 021-2100-001.

This fact sheet is developed in accordance with 40 CFR §124.56.

Changes in this renewal: Minimum sampling frequencies changed from "upon request" to "1/year". TSS AML and IMAX limits changed.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
√		Reza H. Chowdhury, E.I.T. / Project Manager 	June 9, 2022
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	06/09/2022

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 1' 20.06"</u>	Longitude	<u>-75° 34' 16.49"</u>
Quad Name	<u>Malvern</u>	Quad Code	<u>1841</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Ridley Creek (HQ-TSF, MF)</u>	Stream Code	<u>00686</u>
NHD Com ID	<u>25601983</u>	RMI	<u>0.400</u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u></u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-G</u>	Chapter 93 Class.	<u>HQ-TSF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>CAUSE UNKNOWN, FLOW REGIME MODIFICATION, SILTATION</u>		
Source(s) of Impairment	<u>URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>Aqua PA Main System Ridley Creek Intake</u>		
PWS Waters	<u>Ridley Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>8.21</u>	Distance from Outfall (mi)	<u>15.75</u>

Changes Since Last Permit Issuance: None, NPDES and WQM permits were transferred to current permittee on May 20, 2019.

Other Comments:

Anti-Degradation Requirement

Chapter 93.4a(b) of the Department's rules and regulations require that "Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." The discharge is into a stream segment designated as High-Quality Trout Stocking (HQ-TSF) and Migratory Fishes (MF). The facility was constructed before the publication of Water Quality Antidegradation Implementation Guidance (ABACT, November 29, 2003), therefore, the ABACT limits weren't considered. However, the effluent limitations and terms and conditions are implemented to protect the existing use of the receiving watershed.

Class A Wild Trout Streams:

No Class A Wild Trout Fishery will be impacted by this discharge.

303d Listed Streams:

The receiving stream segment is impaired from siltation and flow regime modification due to urban runoff/storm sewer. No TMDL is proposed or finalized.

Compliance History	
Summary of DMRs:	Meeting limits for pH, TRC, and Fecal Coliform. No results available for other parameters since they were upon request.
Summary of Inspections:	Service provider certification was provided in AMR on June 17, 2019. System was pumped on January 2019.

Other Comments:

Treatment Facility summary:

The application was submitted to renew an SRSTP named O'Sullivan SRSTP located in 7 Collegeview Drive, Melvern, PA 19355. This SRSTP receives and treats an average of 400 GPD of sewage and discharges the disinfected effluent into an UNT to Ridley Creek (HQ-TSF/MF) in state watershed 3-G through Outfall 001.

The treatment facility consists of: Jet Inc.153 NSF Class II unit 400 gallon pretreatment chamber, 600 gallon aeration tank, Zoiler Model No. 267 pump, sand filter, 200 gallon final clarification chamber with chlorination provided by a Sanuril Tablet Chlorinator, and final effluent is pumped to a catch basin on College View Road in front of the house.

Development of effluent limitations:

Flow monitoring:

Flow monitoring will be continued in this renewal in accordance with DEP's SOP BCW-PMT-003 revised May 17, 2019. The reporting frequency set forth is once a year and sample type is Estimate (for SRSTP.) The current permit has minimum measurement frequency as "Upon Request" which is changed to 1/year per SOP.

Biochemical Oxygen Demand (BOD₅)

The existing average annual CBOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be replaced by BOD₅ limits of 10 mg/l as annual average and 20 mg/l as IMAX. These limits are consistent with the SOP. The sampling frequency is changed to 1/year.

Total Suspended Solids (TSS)

The existing permit has average annual TSS limit of 20 mg/l and IMAX limit of 40 mg/l. These limits will be changed to 10 mg/l and 20 mg/l, respectively, to be consistent with SOP. The sampling frequency is changed to 1/year.

Fecal Coliform:

Existing year-round annual average and IMAX limit of 200 No./100 ml will be carried over. The sampling frequency is changed to 1/year.

pH:

Existing Daily minimum pH of 6.0 and Daily Maximum pH of 9.0 S.U. will be carried over in this renewal, per Pa Code 25 Ch. 95.2(1). The sampling frequency is changed to 1/year.

Total Residual Chlorine:

Existing permit has 0.5 mg/l as average monthly and 1.2 mg/l as IMAX. Per SOP, Report only is required for SRSTP. However, due to anti-backsliding policy, existing limits will be carried over.

Existing Limits

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	Upon Request	See Permit
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	See Permit
TRC	XXX	XXX	XXX	0.5 Daily Max	XXX	1.2	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	Upon Request	See Permit
TSS	XXX	XXX	XXX	20.0	XXX	40	Upon Request	See Permit
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
TRC	XXX	XXX	XXX	0.5 Daily Max	XXX	1.2	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 001

Other Comments: None