

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0288039
APS ID 1009494
Authorization ID 1302031

Applicant, Facility and Project Information

Applicant Name	<u>Denise Slagle</u>	Facility Name	<u>Denise Slagle SRSTP</u>
Applicant Address	<u>149 Springfield Drive</u> <u>New Castle, PA 16105-5835</u>	Facility Address	<u>149 Springfield Drive</u> <u>New Castle, PA 16105</u>
Applicant Contact	<u>Denise Slagle</u>	Facility Contact	<u>Denise Slagle</u>
Applicant Phone	<u>(724) 944-7988</u>	Facility Phone	<u>(724) 944-7988</u>
Client ID	<u>354629</u>	Site ID	<u>840223</u>
SIC Code	<u>8800</u>	Municipality	<u>Neshannock Township</u>
SIC Description	<u>Private Households</u>	County	<u>Lawrence</u>
Date Application Received	<u>January 6, 2020</u>	WQM Required	<u>Yes - pending</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>3720401</u>
Project Description	<u>Single Residence Sewage Treatment Plant.</u>		

Summary of Review

The project involves the installation of a new single residence sewage treatment plant to replace an existing malfunctioning onlot system.

Act 537 Planning was approved on December 16, 2019.

Proposed treatment will consist of: A Norweco Singulair Bio-Kinetic system consisting of two concrete treatment tanks. The first tank has a volume of 1,300 gallon and houses a 450 gallon pretreatment chamber, an extended aeration chamber with a Singulair aerator, and a final clarification chamber with a bio-kinetic system and a bio-static sludge return. The second tank houses a hydro-kinetic bio-film reactor, an inline Model AT 1500 UV disinfection system and a 500 gallon chamber with gravity flow to the discharge to an existing catch basin on a existing storm sewer system.

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
		Emily C. M. Voorhees / Civil Engineer	
		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>41° 4' 12"</u>	Longitude	<u>-80° 19' 34.68"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Neshannock Creek (TSF)</u>	Stream Code	<u>3533</u>
NHD Com ID	<u>130032020</u>	RMI	<u>1.4700</u>
Drainage Area	<u>0.22 sq. mi.</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.22</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>981</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>20A</u>	Chapter 93 Class.	<u>Trout Stocking</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>SILTATION</u>		
Source(s) of Impairment	<u>AGRICULTURE</u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>	<u></u>	
Temperature (°F)	<u>-</u>	<u></u>	
Hardness (mg/L)	<u>-</u>	<u></u>	
Other:	<u>-</u>	<u></u>	
Nearest Downstream Public Water Supply Intake	<u>PA America Water Co. – Ellwood City</u>		
PWS Waters	<u>Beaver River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>12.48</u>	Distance from Outfall (mi)	<u>Approx. 21.06</u>

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 (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after UV disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliforms are technology- based on Chapter 92a.47.