

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0264849
APS ID 1076853
Authorization ID 1419610

Applicant, Facility and Project Information

Applicant Name	<u>Wesley Norris</u>	Facility Name	<u>Wesley Norris SRSTP</u>
Applicant Address	<u>457 Pfeifer Road</u> <u>Prospect, PA 16052-2607</u>	Facility Address	<u>457 Pfeifer Road</u> <u>Prospect, PA 16052-2607</u>
Applicant Contact	<u>Wesley Norris</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 622-7933</u>	Facility Phone	<u></u>
Client ID	<u>373998</u>	Site ID	<u>818375</u>
SIC Code	<u>4952,8800</u>	Municipality	<u>Muddycreek Township</u>
SIC Description	<u>Private Households, Trans. & Utilities - Sewerage Systems</u>	County	<u>Butler</u>
Date Application Received	<u>March 15, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>December 14, 2022</u>	WQM App. No.	<u>1016409 T-1</u>
Project Description	<u>Renewal and Transfer for a Single Residence Sewage Treatment Plant</u>		

Summary of Review

Renewal Permit for a SRSTP consists of: A NORWECO Singulair Model 960 aerobic unit with an effluent filter. The NSF listed unit has been modified by replacing the final filter with a Bio-Film Reactor, UV radiation is used for disinfection. The system is similar to the NSF listed NORWECO Model 600 FEU (Flow Equalized Unit) unit.

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: None.

The EPA Waiver is in effect.

There are NO open violations in WMS for the subject Client ID (373998) as of January 10, 2023

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		Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	January 10, 2023
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineering Manager	January 18, 2023

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 54' 26.91"</u>	Longitude	<u>-80° 7' 30.69"</u>
Quad Name	<u>Prospect</u>	Quad Code	<u>1105</u>
Wastewater Description: <u>Treated single residence domestic wastes</u>			
Receiving Waters	<u>Unnamed Tributary to Yellow Creek (CWF)</u>	Stream Code	<u>34947</u>
NHD Com ID	<u>126223800</u>	RMI	<u>0.19</u>
Drainage Area	<u>116.7 a; 0.18 square mile</u>	Yield (cfs/mi ²)	<u>0.03217</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00571 (0.00369 MGD)</u>	Q ₇₋₁₀ Basis	<u>Slippery Rock Creek</u>
Elevation (ft)	<u>1179.65</u>	Slope (ft/ft)	<u>0.12821</u>
Watershed No.	<u>20-C</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>statewide</u>	Existing Use Qualifier	<u>none</u>
Exceptions to Use	<u>none</u>	Exceptions to Criteria	<u>none</u>
Comments	<u>Perennial stream conditions probably due to un-regulated upstream ponds Basin storage is approximately 0.5% based on 1.27, 0.87 and 0.13 a ponds with a 2.27 total surface area and a 884.8 acre 1.3825 square mile basin drainage area.</u>		
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE</u>		
TMDL Status	<u>Final</u>	Name	<u>Little Connoquenessing Creek Watershed</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7.5</u>	Default	
Temperature (°F)	<u>20</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:			
Nearest Downstream Public Water Supply Intake	<u>Harmony Borough Water Authority</u>		
PWS Waters	<u>Little Connoquenessing Creek</u>	Flow at Intake (cfs)	<u>N/A</u>
PWS RMI	<u>1.27</u>	Distance from Outfall (mi)	<u>9.17</u>

Changes Since Last Permit Issuance: None

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Norweco Singlair Model 960.

The Norweco 960 is reportedly capable of meeting CBOD5 averages of 6 mg/l and TSS averages of 10 mg/l.

In accordance with the SOP, no water quality modeling was performed since this is a SRSTP

This is a minor discharge to a mining TMDL watershed.

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
	Annual Average	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report	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	20.0	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: Outfall 001 after disinfection

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD₅ and Total Suspended Solids is BPJ based on the Department's "Small Flow Treatment Facilities Manual." Fecal Coliform is technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7 and the monitoring frequency has been established as "upon request" due to CWF stream designation.

Outfall Location - eMap with Aerial Imagery

The screenshot displays the Pennsylvania eMapPA web application interface. At the top, the Pennsylvania Department of Environmental Protection logo is on the left, and navigation links for PA State Agencies, Online Services, and DEP Home are on the right. The main map area shows aerial imagery with a cyan line representing a stream. A popup window titled "Designated Use Streams (1 of 3)" is open, displaying the following data:

Designated Use Gen ID:	30555
GNIS Name:	
GNIS ID:	
ReachCode:	05030105005378
COMID:	126223800
Length Miles:	0.43
Map Symbology:	CWF
Length Miles:	0.43
Designated Use:	1
DES Use ID:	1
Use Description:	CWF(COLD WATER FISHES)
Migratory_Fish:	N
HUC:	05030105
Basin:	N
Basin Narrative:	Null
Segment Narrative:	Null
Evaluation Date:	Null
Last Fdit Date:	Null
Zoom to	

Below the popup, a scale bar shows 0, 150, and 300 feet. At the bottom left, a note states: "Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community". The Esri logo is in the bottom right corner.