

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0291285
APS ID 1071456
Authorization ID 1410538

Applicant, Facility and Project Information

Applicant Name	<u>Gerald Magee</u>	Facility Name	<u>Gerald Magee SRSTP</u>
Applicant Address	<u>111 Nicola Lane</u> <u>Indiana, PA 15701-2315</u>	Facility Address	<u>410 East Portersville Road</u> <u>Portersville, PA 16051-2028</u>
Applicant Contact	<u>Theresa Sweithelm</u>	Facility Contact	<u>Gerald Magee</u>
Applicant Phone	<u>(724) 422-2518</u>	Facility Phone	<u>(724) 422-2518</u>
Client ID	<u>372439</u>	Site ID	<u>857637</u>
SIC Code	<u>8800</u>	Municipality	<u>Muddycreek Township</u>
SIC Description	<u>Private Households</u>	County	<u>Butler</u>
Date Application Received	<u>September 13, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>September 30, 2022</u>	WQM App. No.	<u>1022416</u>
Project Description	<u>Single Residence Sewage Treatment Plant (SRSTP).</u>		

Summary of Review

This is a new discharge for an existing 3-bedroom home to a repair of an existing malfunctioning on-lot system.

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 1022416): A Norweco Singlair Bio-Kinetic Model 960-500 treatment tank, followed by a Hydro-Kinetic Biofilm Reactor, then a Model AT 1500 ultraviolet (UV) disinfection system.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (372439) as of 11/22/2022.

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
X		Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Project Manager	December 1, 2022
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineer Manager	December 2, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 55' 30.03"</u>	Longitude	<u>-80° 6' 43.91"</u>
Quad Name	<u>Prospect</u>	Quad Code	<u>40080H1</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Yellow Creek (CWF)</u>	Stream Code	<u>34953</u>
NHD Com ID	<u>126217026</u>	RMI	<u>0.5100</u>
Drainage Area	<u>0.05</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.005</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>20-C</u>	Chapter 93 Class.	<u>CWF</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>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>7.0</u>	Default	<u></u>
Temperature (°F)	<u>20</u>	Default	<u></u>
Hardness (mg/L)	<u>100</u>	Default	<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Harmony Borough Water Authority</u>		
PWS Waters	<u>Little Connoquenessing Creek and Connoquenessing Creek</u>	Flow at Intake (cfs)	<u>2.0</u>
PWS RMI	<u>1.1</u>	Distance from Outfall (mi)	<u>11.5</u>

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on July 27, 2022).

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. Unit.

The Norweco Singlair unit is reportedly capable of meeting CBOD₅ averages of 10 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.

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 disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD₅ and Total Suspended Solids are BPJ limits based on the 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.

Attachment 1
eMap – Location Map

The screenshot displays a web-based GIS application interface. At the top, there are tabs for 'Map', 'eFacts Query', and 'Advanced Query'. Below these are map style options: 'ESRI Streets & Imagery' (selected), 'Topographic', and 'National Geographic'. A toolbar with navigation icons is visible. The main map area shows a satellite-style view of a rural area with roads and streams. A yellow 'X' marks a specific location with the coordinates 'Latitude: 40.926111' and 'Longitude: -80.110556'. A data popup window titled 'PA Historic Streams (1 of 5)' is open over this location, displaying the following information:

Name:	Trib 34953 To Yellow Creek
Net Streams:	88578
Shed:	20C
Named:	0
Rec No:	88578
Seg ID:	34953_0_1.7877
Seg ID Old:	34953_0_1.7877
From Node:	56307
To Node:	57305
Down River Mile:	0
Up River Mile:	1.78767
WRDS:	34953
Strahler:	1

Below the popup is a 'Zoom to' link. To the right of the map, a 'Locate Latitude and Longitude' dialog box is open, showing input fields for 'Latitude' (40, 55, 34) and 'Longitude' (-80, 6, 38) in 'DD/MM/SS' format, with 'Locate' and 'Close' buttons. The map includes a scale bar (0 to 0.2 miles) and an 'esri' logo in the bottom right corner. At the very bottom, a copyright notice reads: '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'.

Attachment 2
Google Earth Imagery

