

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0219240
APS ID 1054818
Authorization ID 1381753

Applicant, Facility and Project Information

Applicant Name	<u>Fortuna Wayne S</u>	Facility Name	<u>Wayne S Fortuna SRSTP</u>
Applicant Address	<u>108 Hamilton Drive</u> <u>Sewickley, PA 15143-8410</u>	Facility Address	<u>108 Hamilton Drive</u> <u>Sewickley, PA 15143-8410</u>
Applicant Contact	<u>Wayne Fortuna</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>(412) 841-1160</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>319923</u>	Site ID	<u>558629</u>
SIC Code	<u>4952</u>	Municipality	<u>Bell Acres Borough</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Allegheny</u>
Date Application Received	<u>December 21, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>April 7, 2022</u>	WQM App. No.	<u>0202407</u>
Project Description	<u>NPDES Renewal</u>		

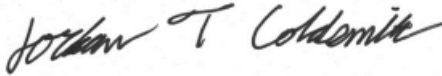

Summary of Review

The applicant has applied for a renewal of NPDES Permit No. PA0219240, which was previously issued by the Department on June 1, 2017. That permit expired on May 31, 2022.

The discharge is to an Unnamed Tributary to Little Sewickley Creek, which is classified as at HQ-TSF located in State Watershed 20-G.

Permittee currently uses chlorination disinfection in their system. Per section IV.E.2 of the DEP SOP – New and Reissuance Individual SFTF NPDES permits (SOP No. BCW-PMT-003) chlorine for disinfection will not be authorized for discharges to HQ waters. Due to the Township having a plan in place to replace SRSTPs in this area with a new sewer system, the department has decided that the permittee does not have to install UV disinfection and will instead add tablet de-chlorination to the SRSTP. A compliance schedule of one year will be given to the permittee to install de-chlorination and submit an amendment to WQM permit no. 0202407.

A Part C TRC schedule has been added to the NPDES permit and the permit will not be renewed again with chlorine limits.

Approve	Deny	Signatures	Date
x		 Jordan Coldsmith / Environmental Engineering Specialist	January 30, 2023
x		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager	September 8, 2023

Summary of Review

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.

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>.0004</u>
Latitude	<u>40° 35' 22.83"</u>	Longitude	<u>-80° 8' 33.14"</u>
Quad Name	<u>Ambridge</u>	Quad Code	<u>40080E2</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Little Sewickley Creek (HQ-TSF)</u>	Stream Code	<u>36668</u>
NHD Com ID	<u>99681884</u>	RMI	<u>0.68</u>
Drainage Area	<u>0.094</u>	Yield (cfs/mi ²)	<u>0.004596</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.000432</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStat</u>
Elevation (ft)	<u>1138</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>20-G</u>	Chapter 93 Class.	<u>HQ-TSF</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</u>		
Source(s) of Impairment	<u>HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED)</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>DUQUESNE LIGHT CO-PHILLIPS P S</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>8.04</u>

Changes Since Last Permit Issuance: N/A

Other Comments: None

Treatment Facility Summary				
Treatment Facility Name: Wayne S Fortuna SRSTP				
WQM Permit No.		Issuance Date		
0202407		09/05/2022		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Ultraviolet	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004		Not Overloaded		

Changes Since Last Permit Issuance: N/A

Other Comments: This facility consists of:

- Septic tank
- Dosing tank
- Sand filter
- Chlorinator (tablet)
- Chlorine Contact Tank

Compliance History

Operations Compliance Check Summary Report

Facility: Fortuna SRSTP

NPDES Permit No.: PA0219240

Compliance Review Period: 4/2017 – 4/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3247458	09/09/2021	Compliance Evaluation	County Health Dept	Violation(s) Noted

Violation Summary:

VIOL ID	VIOLATION DATE	VIOLATION TYPE	VIOLATION TYPE DESC	RESOLVED DATE
932767	09/09/2021	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	04/19/2022
932768	09/09/2021	92A.61(C)	NPDES - Failure to monitor pollutants as required by the NPDES permit	04/19/2022

Open Violations by Client ID:

No open violations for client id 319923

Enforcement Summary:

No open enforcements

DMR Violation Summary:

No DMR violations

Compliance Status:

Permittee in compliance.

Completed by: John Murphy

Completed date: 4/19/2022

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 35' 22.83"	Longitude	-80° 8' 33.14"
Wastewater Description: Sewage Effluent			

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP’s “Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application” (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

Additional TBELs:

Outfall 001 discharges to Unnamed Tributary to Little Sewickley Creek, which is classified as a HQ-TSF.

The following Antidegradation Best Available Combination of Technologies (ABACT) effluent limits, at a minimum, will be established based on the requirements of DEP’s “Water Quality Antidegradation Implementation Guidance” (Doc. No. 391-0300-002; November 29, 2003).

Parameter	Treatment Process Performance Expectations (mg/L)		
	<2,000 gpd	2,000-50,000 gpd	>50,000 gpd
CBOD ₅ (May 1 – Oct. 31)	10	10	10
CBOD ₅ (Nov. 1 – Apr. 30)	20	20	10
Suspended Solids	20	10	10
NH ₃ -N (May 1 – Oct. 31)	5.0	3.0	1.5
NH ₃ -N (Nov. 1 – Apr. 30)	15.0	9.0	4.5
Effective disinfection	Disinfection should be accomplished using a method that leaves no detectable residual. Disinfection using ultra-violet light or other non-chlorine based systems is encourage and must be considered.		
Other parameters, as needed	<i>Determined by the size and characteristics of the proposed discharge, may include – NO₂/NO₃-N, Total Phosphorus, Copper, Lead, Zinc</i>		

Due to anti backsliding policy, previously imposed limits for Ammonia will remain.

Per section 402(o)(2)(B)(ii) of the clean water act, the previously imposed DO limit will be removed.

The limitations and monitoring requirements, specified on page 7 of this Fact Sheet, reflect the most stringent limitation amongst the above Technology-Based Effluent Limitations.

Note: no new limits will be imposed for ammonia or for CBOD5, the current BOD limits address these two parameters

Additional Considerations:

Permittee currently uses chlorination disinfection in their system. Per section IV.E.2 of the DEP SOP – New and Reissuance Individual SFTF NPDES permits (SOP No. BCW-PMT-003) chlorine for disinfection will not be authorized for discharges to HQ waters. Due to the potential of a new public sewer system being installed to service private properties in the area the department has decided that the permittee does not have to install UV disinfection and will instead add tablet de-chlorination to the SRSTP. A compliance schedule of one year will be given to the permittee to install de-chlorination and submit an amendment to WQM permit no. 0202407. The NPDES permit will not be renewed again with chlorine limits.

Part C TRC conditions have been added to the NPDES permit.

SFTFs/SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits. The receiving stream is not impaired for nutrients.

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.

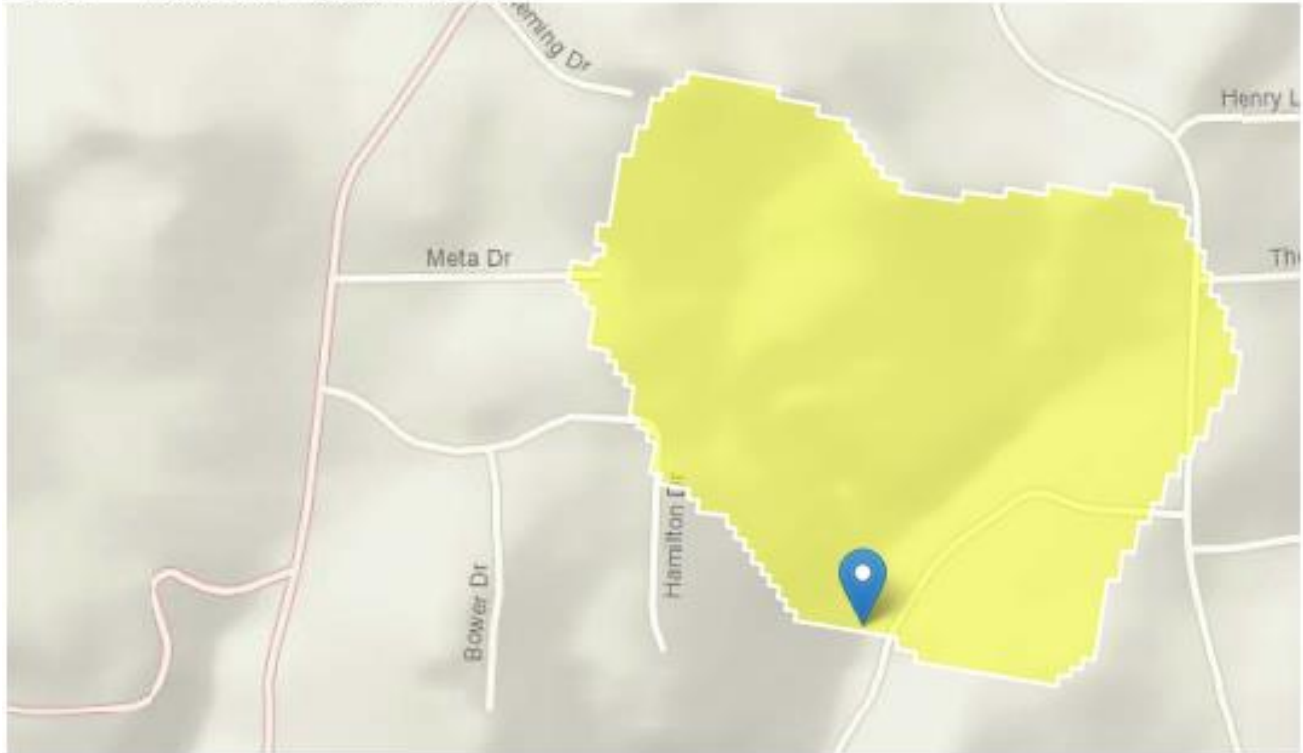
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	Report	1/month	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
Ammonia-Nitrogen	XXX	XXX	XXX	3.0	XXX	6.0	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: N/A

StreamStats Report

Region ID: PA
Workspace ID: PA20221201183320164000
Clicked Point (Latitude, Longitude): 40.58968, -80.14258
Time: 2022-12-01 13:33:41 -0500



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➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.094	square miles
ELEV	Mean Basin Elevation	1138	feet

➤ Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.094	square miles	2.26	1400
ELEV	Mean Basin Elevation	1138	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00182	ft ³ /s
30 Day 2 Year Low Flow	0.0039	ft ³ /s
7 Day 10 Year Low Flow	0.000432	ft ³ /s
30 Day 10 Year Low Flow	0.0011	ft ³ /s
90 Day 10 Year Low Flow	0.00249	ft ³ /s

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

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