

 Application Type
 New

 Wastewater Type
 Sewage

 Facility Type
 SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0295281

 APS ID
 1095519

 Authorization ID
 1452048

Applicant, Facility and Project Information

Applicant Name	Marjorie Bardwell	Facility Name	Marjorie Bardwell SRSTP
Applicant Address	2839 Hershey Road	Facility Address	2839 Hershey Road
	Erie, PA 16506-5002		Erie, PA 16506-5002
Applicant Contact	Marjorie Bardwell	Facility Contact	
Applicant Phone	(814) 602-4217	Facility Phone	
Applicant Email	lamangel62@yahoo.com		
Client ID	379487	Site ID	864539
SIC Code	8800	Municipality	Summit Township
SIC Description	Private Households	County	Erie
Date Application Receiv	ved August 3, 2023	WQM Required	Yes
Date Application Accep	ted September 8, 2023	WQM App. No.	2523423
Project Description	Installation of a Single I	Residence Sewage Treatment Plan	t

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant to replace a malfunctioning sewage system. The daily sewage flow is projected to be 400 GPD.

Proposed treatment will consist of (WQM Permit No. 2523420): A Norweco Model 960 aerobic unit with the capacity to treat 500 GPD. From the aerobic unit, the sewage flows through a Norweco Biofilm Reactor tank. From the Biofilm Reactor tank, the effluent will flow to a 1,000-gallon concrete dual compart tank with a Norweco At1500 UV unit and pump in the second compartment. From UV disinfection unit, the treated effluent will discharge into Walnut Creek which is perennial on the owner's property.

Act 14 - Proof of Notification was submitted and received.

Act 537 - Sewage Facilities Planning Module Component 3s was approved by the Department on July 25, 2023

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (379487) as of September 8, 2023 9/15/2023 CWY

Approve	Deny	Signatures	Date
х		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	September 8, 2023
х		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	9/15/2023

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, Recei	ving Waters and	d Water Su	upply Information

Outfall No. 001			Design Flow (MGD)	.0004	
Latitude 42° 2' 44.10"			Longitude	-80° 6' 38.33"	
Quad Name Erie South		Quad Code	42080A1		
Wastewater Descrip	otion:	Sewage Effluent			
	Unna	med Tributary of Walnut			
Receiving Waters		(CWF, MF)	Stream Code	62451	
NHD Com ID	1239	22891	RMI	0.3900	
Drainage Area	0.6		Yield (cfs/mi ²)	0.1 (Default)	
Q ₇₋₁₀ Flow (cfs)	0.06		Q ₇₋₁₀ Basis	StreamStats	
Elevation (ft)	1073	(Approximately)	Slope (ft/ft)		
Watershed No.	15-A		Chapter 93 Class.	CWF, MF	
Existing Use			Existing Use Qualifier		
Exceptions to Use			Exceptions to Criteria		
Assessment Status		Attaining Use(s)			
Cause(s) of Impairr	nent				
Source(s) of Impair	ment				
TMDL Status			Name		
Background/Ambie	nt Data		Data Source		
pH (SU)		7	Default		
Temperature (°F)		20	Default		
Hardness (mg/L)		100	Default		
Other:					
Nearest Downstrea	m Publ	ic Water Supply Intake	PA – Canadian International I	Boundary in Lake Erie	
PWS Waters Lake Erie			Flow at Intake (cfs)		
PWS RMI			Distance from Outfall (mi)		

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on July 25, 2023)

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 Model 960 aerobic unit with a Norweco Biofilm Reactor tank.

The Norweco Biofilm Reactor tank and the Norweco At1500 UV unit are 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.

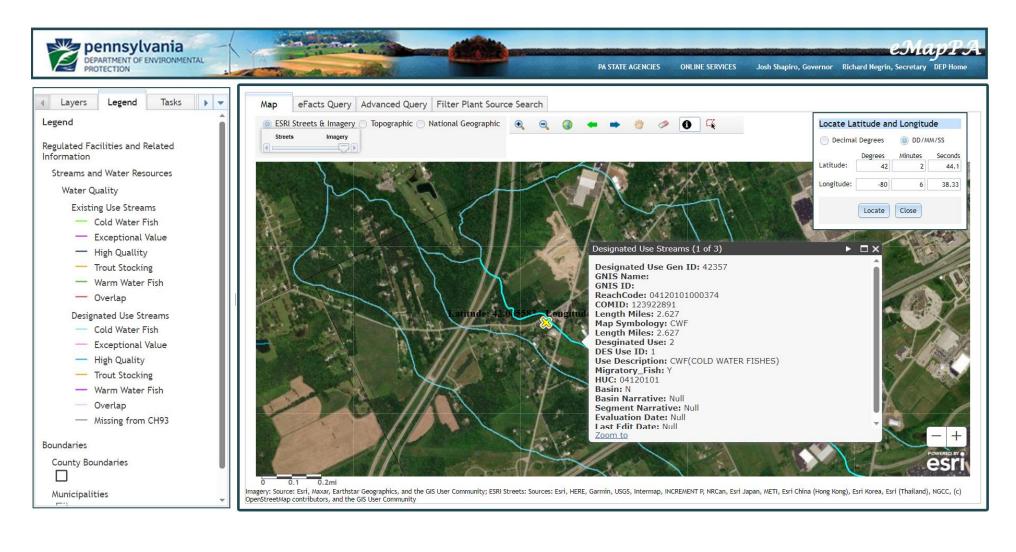
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
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	ххх	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)	ХХХ	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after UV disinfection.

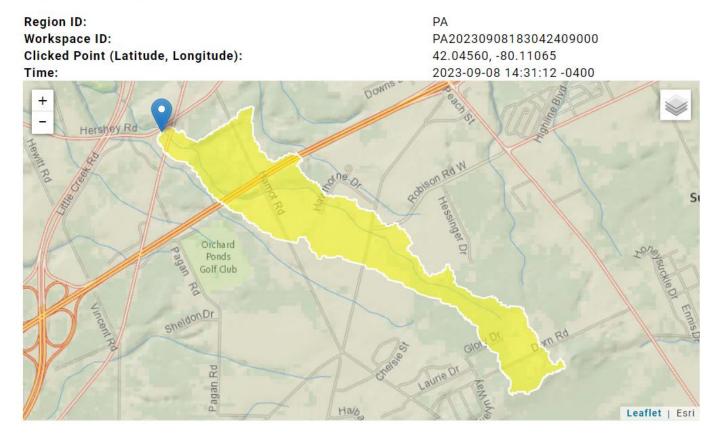
Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ-based on the Department's "Small Flow Treatment Facilities Manual." Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Outfall Location - eMap with Aerial Imagery



Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report



Collapse All

> Basin Characteristi	cs		
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.6	square miles