

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SFTF

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

Application No. PA0254053  
APS ID 1055055  
Authorization ID 1382152

**Applicant, Facility and Project Information**

Applicant Name	<u>St Pauls Highfield Lutheran Church</u>	Facility Name	<u>St Pauls Highfield Lutheran Church</u>
Applicant Address	<u>1595 Dime Road</u> <u>Vandergrift, PA 15690-6003</u>	Facility Address	<u>1595 Dime Road</u> <u>Vandergrift, PA 15690</u>
Applicant Contact	<u>Clarence Brown</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 567-7462</u>	Facility Phone	<u></u>
Applicant Email	<u>hifields@comcast.net</u>		<u></u>
Client ID	<u>44312</u>	Site ID	<u>250287</u>
SIC Code	<u>4952</u>	Municipality	<u>Parks Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Armstrong</u>
Date Application Received	<u>January 18, 2022</u>	WQM Required	<u>Issued</u>
Date Application Accepted	<u>December 28, 2022</u>	WQM App. No.	<u>0391402</u>
Project Description	<u>Renewal NPDES Permit for a Small Flow Treatment Facility (SFTF).</u>		

**Summary of Review**

NPDES Permit PA0254053 was previously issued on August 1, 2017 and expired on July 31, 2022

Renewal Permit for a SFTF consists of: a Jet Aeration System and chlorine contact tank with tablet chlorination.

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 (44312) as of February 9, 2023 [4/18/2023 CWY](#)

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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	February 9, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	4/18/2023

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>.0009</u>
Latitude	<u>40° 38' 16"</u>	Longitude	<u>-79° 32' 20"</u>
Quad Name	<u>Leechburg</u>	Quad Code	<u>40079F5</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Carnahan Run (WWF)</u>	Stream Code	<u>42859</u>
NHD Com ID	<u>125290243</u>	RMI	<u>4.45</u>
Drainage Area		Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	<u>0</u>	Q <sub>7-10</sub> Basis	
Elevation (ft)	<u>924</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>18-B</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>---</u>	Existing Use Qualifier	<u>---</u>
Exceptions to Use	<u>---</u>	Exceptions to Criteria	<u>---</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>---</u>		
Source(s) of Impairment	<u>---</u>		
TMDL Status	<u>Final</u>	Name	<u>Kiskiminetas-Conemaugh River Watersheds TMDL</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7</u>	Default	
Temperature (°F)	<u>25</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:			
Nearest Downstream Public Water Supply Intake	<u>Buffalo Township Municipal Authority - Freeport</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>2576</u>
PWS RMI	<u>30</u>	Distance from Outfall (mi)	<u>14.35 (approximately)</u>

Changes Since Last Permit Issuance: None.

Other Comments: The tank was pumped in February 2022.

**Compliance History**

**DMR Data for Outfall 001 (from January 1, 2022 to December 31, 2022)**

Parameter	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22	JAN-22
Flow (MGD) Average Monthly	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
pH (S.U.) Minimum	7.2	6.9	7.0	7.2	7.1	6.8	7.4	6.8	7.4	7.4	6.8	7.4
pH (S.U.) Maximum	7.2	6.9	7.0	7.2	7.1	6.8	7.4	6.8	7.4	7.4	6.8	7.4
TRC (mg/L) Average Monthly	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01
TRC (mg/L) Instantaneous Maximum	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01
CBOD5 (mg/L) Average Monthly	4.06	3.32	3.44	2.0	2.0	2.0	5.4	2.0	2.0	3.2	2.0	2.0
CBOD5 (mg/L) Instantaneous Maximum	4.06	3.32	3.44	2.0	2.0	2.0	5.4	2.0	2.0	3.2	2.0	2.0
TSS (mg/L) Average Monthly	5.0	< 5.0	46.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15.0	5.0
TSS (mg/L) Instantaneous Maximum	5.0	< 5.0	46.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15.0	5.0
Fecal Coliform (No./100 ml) Geometric Mean	10	< 10	< 10	10	10	10	10	10	10	10	10	10
Fecal Coliform (No./100 ml) Instantaneous Maximum	10	< 10	< 10	10	10	10	10	10	10	10	10	10

There is one effluent violation was found in WMS

**Effluent Violations for Outfall 001, from: February 1, 2022 To: December 31, 2022**

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
TSS	10/31/22	Avg Mo	46.0	mg/L	30.0	mg/L

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	0.0009	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001, after 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.

*The CBOD5 and TSS limits have been carried over from the previous permit in accordance with the Department’s May 17, 2019 SOP. CWY*

Outfall Location - eMap with Aerial Imagery

The screenshot displays the Pennsylvania eMapPA web application interface. The top banner features the Pennsylvania Department of Environmental Protection logo and navigation links for PA State Agencies, Online Services, and DEP Home. The main map area shows aerial imagery with a blue line representing a stream. A popup window titled "Designated Use Streams (2 of 5)" is open, displaying the following information:

- Designated Use Gen ID: 20002
- GNIS Name: Carnahan Run
- GNIS ID: 01171227
- ReachCode: 05010008000220
- COMID: 125290243
- Length Miles: 1.245
- Map Symbology: WWF
- Length Miles: 1.245
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory\_Fish: N
- HUC: 05010008
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null

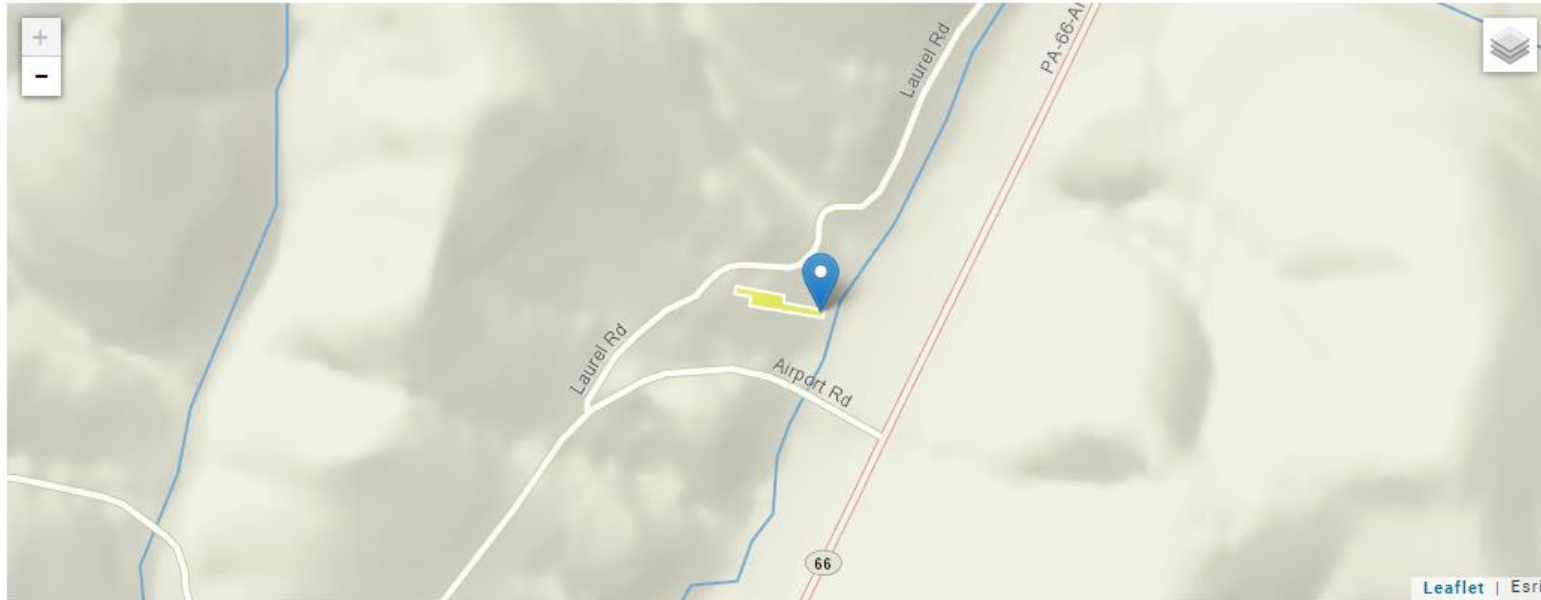
The popup also includes a "Zoom to" link. The map interface includes a legend on the left with categories for Regulated Facilities, Streams and Water Resources, Water Quality, and Boundaries. A "Locate Latitude and Longitude" dialog box is visible on the right, showing coordinates: Latitude: 40° 38' 16" and Longitude: -79° 32' 20". The map is powered by Esri, as indicated by the logo in the bottom right corner.

**Drainage Area Location – StreamStats with Aerial Imagery**

StreamStats Report

Region ID:  
Workspace ID:  
Clicked Point (Latitude, Longitude):  
Time:

PA  
PA20221228161850718000  
40.63777, -79.53889  
2022-12-28 11:19:10 -0500



+ Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.000579	square miles