

Application Type Renewal
 Wastewater Type Sewage
 Facility Type SFTF

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

Application No. PA0087106
 APS ID 46408
 Authorization ID 1481771

Applicant, Facility and Project Information

Applicant Name	Freedom Valley Worship Center AOG Inc.	Facility Name	Freedom Valley Worship Center
Applicant Address	3185 York Road	Facility Address	3185 York Road
	Gettysburg, PA 17325-8259		Gettysburg, PA 17325-8259
Applicant Contact	Candace Pringle	Facility Contact	Candace Pringle
Applicant Phone	(717) 624-3411	Facility Phone	(717) 624-3411
Client ID	136025	Site ID	253417
SIC Code	8661	Municipality	Straban Township
SIC Description	Services - Religious Organizations	County	Adams
Date Application Received	<u>April 22, 2024</u>	WQM Required	
Date Application Accepted	<u>April 23, 2024</u>	WQM App. No.	
Project Description	NPDES renewal permit.		

Summary of Review

An application was received on April 22, 2024 for reissuance of a NPDES permit to discharge treated sewage from the Small Flow Treatment Facility located at 3185 York Road, Gettysburg, PA. This is located in Straban Township, Adams County. The permit was last reissued on October 30, 2019 and became effective on November 1, 2019. The permit expires on October 31, 2024.

The average annual design flow and hydraulic design capacity is 0.002 MGD

The WQM Part II No. 0100403 was issued on 7/31/2000, and 0100403 A-1 amendment was issued on 7/20/2005.

Sludge use and disposal description and location(s): N/A.

Changes in this renewal: N/A.

Based on the review outline in this fact sheet, it is recommended that the permit be drafted and published in the Pennsylvania Bulletin for public comments for 30 days.

Approve	Deny	Signatures	Date
X		Hilaryle Hilary H. Le / Environmental Engineering Specialist	July 5, 2024
X		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	July 16, 2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.002
Latitude	39° 51' 32.00"	Longitude	-77° 8' 0.34"
Quad Name	Gettysburg	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Swift Run	Stream Code	08960
NHD Com ID	57474017	RMI	0.1400
Drainage Area	0.3 mi. ²	Yield (cfs/mi ²)	0.0074
Q ₇₋₁₀ Flow (cfs)	0.00227	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)	577.2	Slope (ft/ft)	
Watershed No.	7-F	Chapter 93 Class.	WWF & MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake		Wrightsville Water Supply Company	
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI	12.63 miles	Distance from Outfall (mi)	Approximate 69.4 miles

Changes Since Last Permit Issuance:

Drainage Area:

The discharge is to the headwater of Unnamed Tributary 08960 to Swift Run at RMI 0.14 mile. A drainage area of the point of discharge is estimated to be 0.3 sq. miles according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

Streamflow:

USGS StreamStats produces a Q7-10 0.00227 cfs at the point of discharge.

Unnamed Tributary 08960 to Swift Run:

Under 25 Pa Code § 93.9o, all unnamed tributary to Swift Run are designated as warm water and migratory fishes. No special protection water(s) is therefore impacted by this discharge. DEP's latest integrated report prepared in 2024 showed Swift Run is not impaired and the discharge is located in a stream segment listed as attaining uses.

Public Water Supply Intake:

The fact sheet prepared for the renewal permit indicated that the nearest downstream public water supply intake is Wrightsville Water Supply Company located on Susquehanna River, approximately 69.4 miles from the discharge. Considering downstream distance and dilution, the discharge is not expected to impact the water supply.

Compliance History	
Summary of DMRs:	DMRs have been consistently submitted to DEP.
Summary of Inspections:	6/1/2023: Mr. Hoy, DEP WQS, conducted a compliance evaluation inspection. No violations were noted at the time of inspection. Recommendation was the sand beds be regularly raked to prevent ponding. Requests the copy of pumping records from hauler be submitted with the annual maintenance report, the depth of septic and scum in all treatment units be measured at least one a year as required by NPDES Permit PA0087106 Part C.I.C, and the facility register and submit DMRs through eDMR.
Other Comments:	There are currently no open violations associated with the permittee or the facility.

Other Comments: 

DMR Data for Outfall 001 (from January 1, 2024 to June 30, 2024) are summarized in the Table below.

Parameter	Jan 24	Feb 24	Mar 24	Apr 24	May 24	Jun 24
Flow (MGD) Average Monthly	0.0005	0.0005	0.0004	0.0005	0.0007	0.0006
Fecal Coliform (CFU/100 ml) Geo Mean	< 1	4	3	6	< 1	< 1
TSS (mg/L) Average Monthly	2	3	2	1	6	3
CBOD ₅ (mg/L) Average Monthly	2.8	< 2.4	< 2.4	4	3	4.5
NH ₃ -N (mg/L) Average Monthly	0.47	< 0.10	8.5	13.0	8.8	4.2

Treatment Facility Summary

The facility serves church services, staff within an office building, and a school building. The Water Quality Management (WQM) permit was originally issued on July 31, 2000 (#0100403) for a 1,000-gallon equalization tank, a Norweco aeration tank which consisted of pretreatment, aeration and settling chambers with an effluent filter; two (2) sand filters, one UV disinfection chamber, and an outfall. Since this old treatment system was not able to handle the increased flow, the WQM permit was amended in July 2005 to double the capacity of the existing facility (#0100403 05-1). The facility now consists of bar screen, equalization tank, two-compartment aeration tank, clarifier, post aeration tank, filter dosing tank, two sand filters, two (2) UV disinfection units, sludge holding tank, and an outfall.

Development of Effluent Limitations

Outfall No. 001

Design Flow (MGD) 0.002

Latitude 39° 51' 31.69"

Longitude -77° 8' 0.34"

Wastewater Description: Sewage Effluent

Water Quality-Based Limitations

DEP's Standard Operating Procedures (SOP) for the Clean Water Program SOP No. BPNPSM-PMT-003, revised November 9, 2023, indicates that in determining effluent limitations for the reissuance of a permit for a Small Flow Treatment Facility (SFTF), water quality modeling via PentoxSD and/or WQM will not be conducted.

Flow monitoring:

Flow monitoring will be continued in this renewal in accordance with DEP's SOP BPNPSM-PMT-003, version 1.8 revised November 9, 2023. The reporting frequency will be revised to twice a month and sample type is Measured (for SFTF).

Carbon Biochemical Oxygen Demand (CBOD₅):

DEP's Standard Operating Procedure (SOP) No. BPNPSM-PMT-003, version 1.8 revised November 9, 2023, suggests average monthly CBOD₅ limit to be 10.0 mg/L and instantaneous maximum (IMAX) limit to be 20.0 mg/L for new or renewal permits. It is recommended that existing limits be carried over in this renewal and BOD₅ limits be replaced by CBOD₅ to comply with the recent SOP. The minimum monitoring frequency will remain the same as 1/month.

Ammonia-Nitrogen:

The SOP does not require the permittee to monitor Ammonia-Nitrogen (NH₃-N). However, as per anti-backsliding policy, monitoring for this parameter will remain in the permit. The existing NH₃-N summer & winter limits will remain in the proposed permit.

Total Suspended Solids (TSS):

DEP's Standard Operating Procedure (SOP) No. BPNPSM-PMT-003, version 1.8 revised November 9, 2023 suggests average monthly TSS limit to be 10.0 mg/L and instantaneous maximum (IMAX) limit to be 20.0 mg/L. Existing limits are same as SOP and recommended to be carried over in this renewal. Minimum monitoring frequency will remain the same as 1/month.

Fecal Coliform:

Per SOP, a year-round average monthly limit for fecal coliform geometric mean to be 200/100 ml for all new or renewal. The existing permit has seasonal limit which is recommended to be replaced by year-round limit. The minimum monitoring frequency will remain the same as 1/month.

Chesapeake Bay Requirement:

Facilities that are designed based on a flow of equal to or less than 2,000 GPD or considered as SFTFs are exempt from the Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrients monitoring.

Total Maximum Daily Load (TMDL)

The discharge is located in a stream segment listed as attaining uses; therefore, no TMDL has been taken into consideration during this review.

Antidegradation Requirements

All effluent limitations and monitoring requirements have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Other Considerations

No Class A Wild Trout Fishery is impacted by this discharge. Considering dilution and distance from the intake, the discharge is not expected to affect the water supply.

NPDES Permit Fact Sheet

Freedom Valley Worship Center

NPDES Permit No. PA0087106



StreamStats

SELECT A STATE / REGION

Pennsylvania  

IDENTIFY A STUDY AREA

Basin Delineated 

SELECT SCENARIOS 

BUILD A REPORT 

 Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the 'Build Report' button

 Show Basin Characteristics

Select available reports to display:

Basin Characteristics Report

Scenario Flow Reports

 Open Report

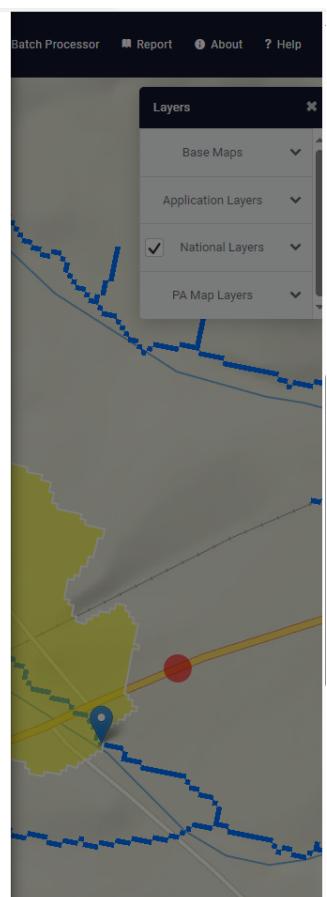
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Basin Characteristics		Parameter Code			Parameter Description		Value	Unit
BSLOPD			Mean basin slope measured in degrees			1.0786		degrees
DRNAREA			Area that drains to a point on a stream			0.3		square miles
ROCKDEP			Depth to rock			4.8		feet
URBAN			Percentage of basin with urban development			0.3489		percent

Low-Flow Statistics								
Low-Flow Statistics Parameters [Low Flow Region 1]								
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit			
DRNAREA	Drainage Area	0.3	square miles	4.78	1150			
BSLOPD	Mean Basin Slope degrees	1.0786	degrees	1.7	6.4			
ROCKDEP	Depth to Rock	4.8	feet	4.13	5.21			
URBAN	Percent Urban	0.3489	percent	0	89			

Low-Flow Statistics Disclaimers [Low Flow Region 1]								
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 1]								
Statistic						Value	Unit	
7 Day 2 Year Low Flow						0.00961	ft^3/s	
30 Day 2 Year Low Flow						0.0176	ft^3/s	
7 Day 10 Year Low Flow						0.00227	ft^3/s	
30 Day 10 Year Low Flow						0.00452	ft^3/s	
90 Day 10 Year Low Flow						0.0151	ft^3/s	



Existing Effluent Limitations and Monitoring Requirements

Outfall 001.

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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
CBOD ₅	XXX	XXX	XXX	10	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	10	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	18	XXX	36	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	6.0	XXX	12	1/month	Grab

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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	18.0	XXX	36.0	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	6.0	XXX	12.0	1/month	Grab

Compliance Sampling Location: 

Other Comments: 