pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0104213**
Wastewater Type	**Sewage**	APS ID	**1062143**
Facility Type	**SFTF**	Authorization ID	**1393878**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Pleasantview Conservative Mennonite Church**	Facility Name	**Pleasantview Mennonite Hall**
Applicant Address	3488 County Line Road	Facility Address	3472 County Line Road
	Cochranton, PA 16314		Cochranton, PA 16314-3102
Applicant Contact	Nathan Miller	Facility Contact	Marvin McAfoose
Applicant Phone	(814) 425-1479	Facility Phone	(724) 699-4070
Client ID	268699	Site ID	244043
SIC Code	4952	Municipality	French Creek Township
SIC Description	Trans. & Utilities - Sewerage Systems	County	Mercer
Date Application Received	April 27, 2022	WQM Required	No
Date Application Accepted		WQM App. No.	

Project Description: NPDES renewal of a small flow treatment facility (SFTF).

Summary of Review

This is an existing discharge treating sewage from a church hall.

Act 14 – Proof of Notification was submitted and received.

Existing treatment facilities consist of: A 9,514 gallon dual compartment septic tank, a 3,040 gallon dosing tank, four 1,050 square foot (32' 5" x 32' 5") intermittent surface sand filters, tablet chlorine disinfection with two 1,520 gallon contact tanks in series, and six feet of cascade aeration.

There are no open violations in WMS for the subject Client ID (268699) as of 10/18/2023. *10/27/2023 CWY*

Facility is treated as an SFTF because its flows average well below 2,000gpd despite a Design Flow of 7,200gpd

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	October 18, 2023
X		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	10/27/2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0072 *(actual flow <0.002)*
Latitude	41º 29' 9.74"	Longitude	-80º 3' 46.65"
Quad Name	41080D1	Quad Code	New Lebanon
Wastewater Description:	Sewage Effluent		

Receiving Waters	Foulk Run (WWF)	Stream Code	52047
NHD Com ID	127351596	RMI	0.7500
Drainage Area	0.15	Yield (cfs/mi^2)	0.1
Q_{7-10} Flow (cfs)	0.015	Q_{7-10} Basis	Default
Elevation (ft)	1423	Slope (ft/ft)	---
Watershed No.	16-D	Chapter 93 Class.	WWF
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	

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	25	Default
Hardness (mg/L)	100	Default
Other:		

Nearest Downstream Public Water Supply Intake		Aqua Pennsylvania, Inc. - Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	1376
PWS RMI	90.0	Distance from Outfall (mi)	>25

Changes Since Last Permit Issuance: None.

Other Comments: Prior permit cycle reclassified this facility as an SFTF because the actual operation averages well below a 2000gpd flow.

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.

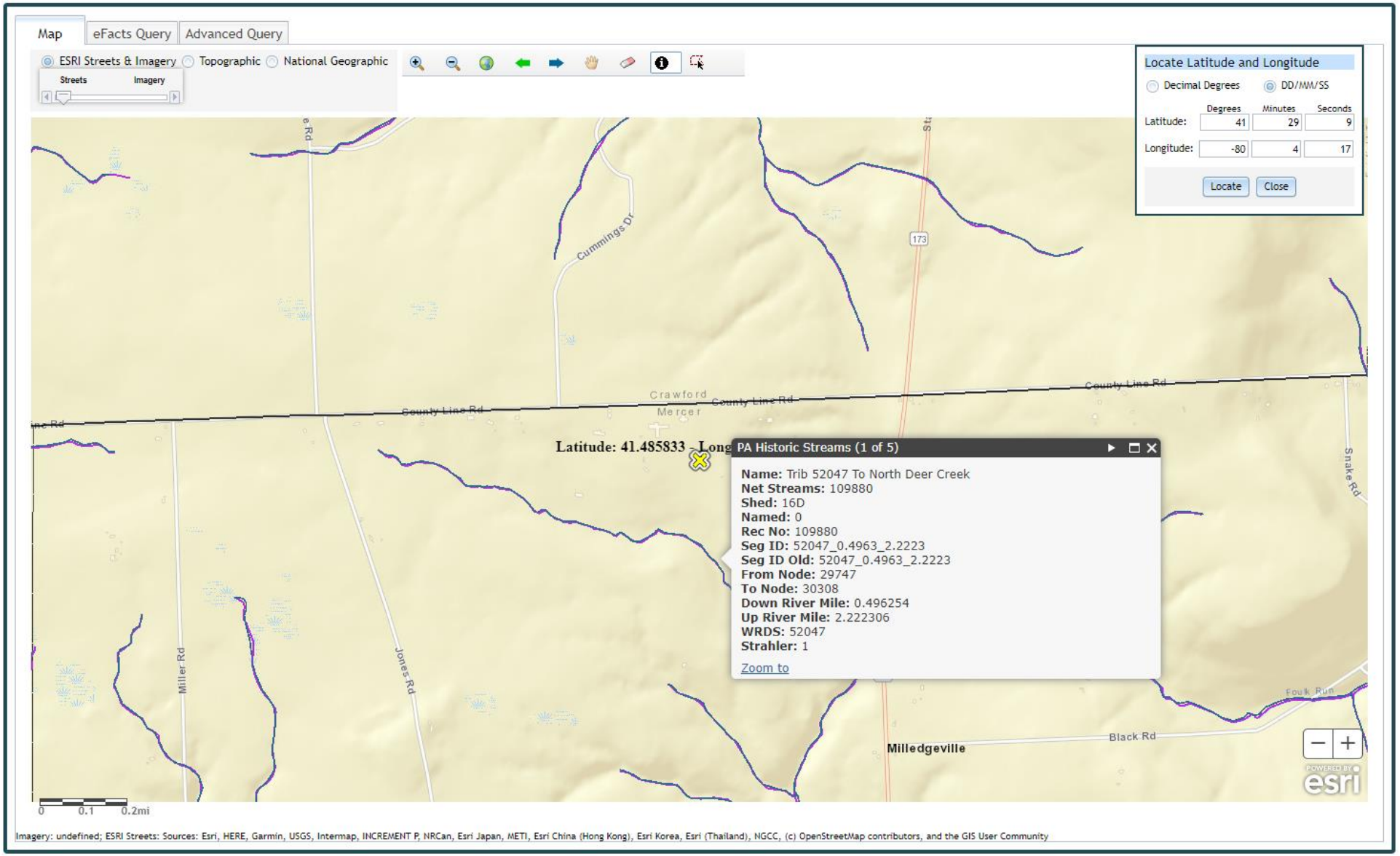
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

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	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

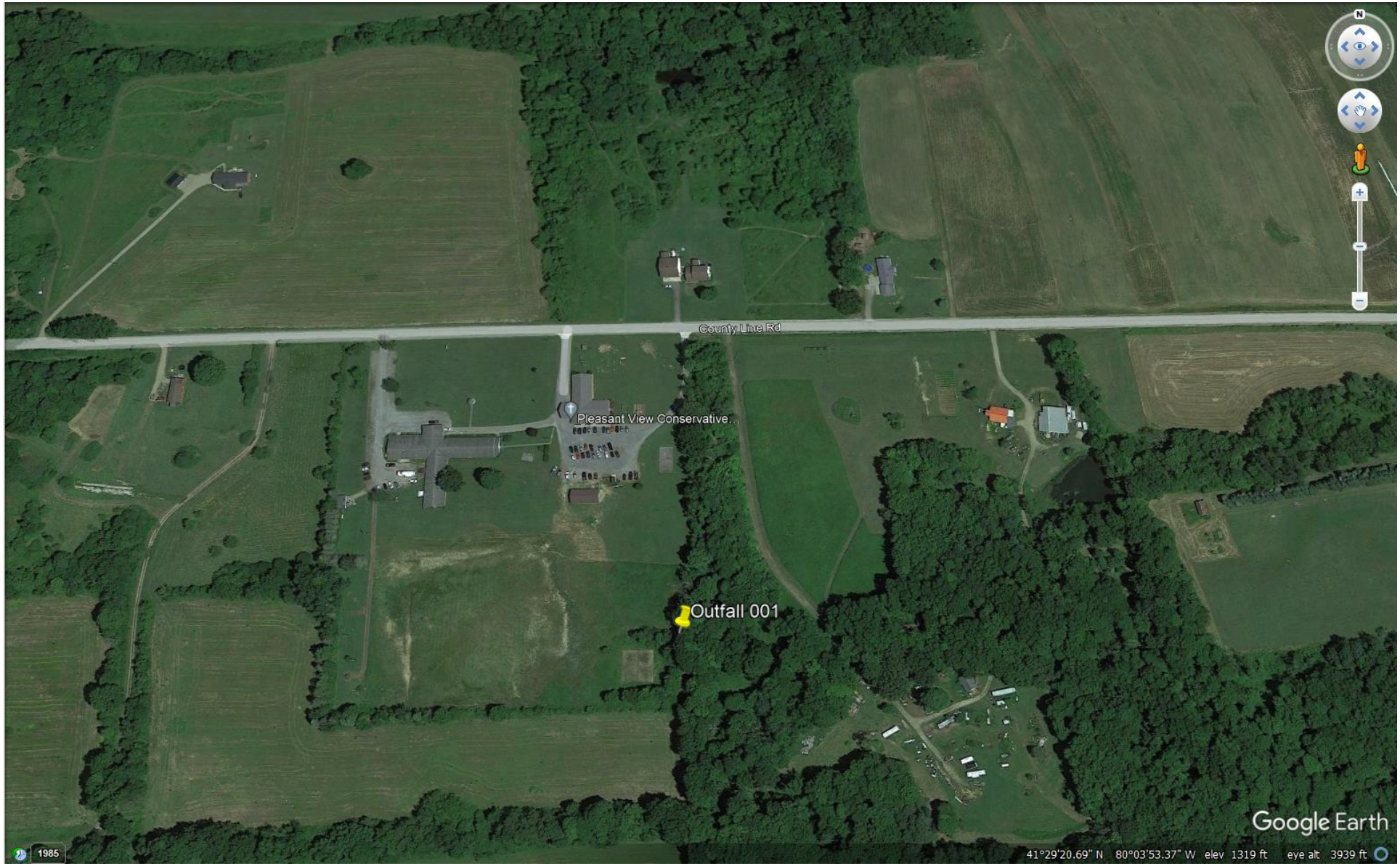
Compliance Sampling Location: at Outfall 001, after disinfection.

Flow is monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. Total Residual Chlorine (TRC) is monitor only based on Chapter 92a.61. The limits for BOD_5, Total Suspended Solids (TSS), and Fecal Coliforms are technology-based on Chapter 92a.47.

Attachment 1
eMap – Location Map



Attachment 2
Google Earth Imagery



Copy of TRC_CALC.xls

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.015	= Q stream (cfs)	0.5	= CV Daily
0.002	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 1.566	1.3.2.iii	WLA cfc = 1.519
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.583	5.1d	LTA_cfc = 0.883

Source		Effluent Limit Calculations	
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500	BAT/BPJ
		INST MAX LIMIT (mg/l) = 1.635	

WLA afc	**(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...** **...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)**
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	**(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))...** **...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)**
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	**1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)**