

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0060721
APS ID 580932
Authorization ID 1212470

Applicant and Facility Information

Applicant Name	<u>Pocono Plateau Christian Association</u>	Facility Name	<u>Pocono Plateau Treatment Plant</u>
Applicant Address	<u>304 Pocono Plateau Road</u> <u>Cresco, PA 18326-7888</u>	Facility Address	<u>304 Pocono Plateau Road</u> <u>Cresco, PA 18326-7888</u>
Applicant Contact	<u>Ronald Schane, Camp Director</u>	Facility Contact	<u>Ronald Schane</u>
Applicant Phone	<u>(570) 676-3665</u>	Facility Phone	<u>(570) 676-3665</u>
Client ID	<u>39449</u>	Site ID	<u>2609</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Barrett Township</u>
Connection Status	<u>-</u>	County	<u>Monroe</u>
Date Application Received	<u>November 27, 2017</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 5, 2018</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.015 MGD of treated sewage into an Unnamed Tributary to Taylor Creek, a High-Quality, Cold-Water Fishery, Migratory Fish (HQ, CWF, MF) receiving stream in State Water Plan Basin 1-C (Wallenpaupack Creek). This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

The existing use classification for the Unnamed Tributary to Taylor Creek is Exceptional Value, Migratory Fish (EV, MF).

DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use 25 Pa. Code §93.9. The draft permit will include protection for the existing use of the receiving waters. Following DEP's notice of the receipt of the application and the draft permit in the *Pennsylvania Bulletin*, DEP will accept written comments during the public comment period regarding DEP's protection of the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.

Limitations for pH, Dissolved Oxygen (DO), CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Total Phosphorous and wintertime limitations for Ammonia-Nitrogen (November 1 - April 30) are water quality-based and carried over from the previous permit.

WQM modeling recommended stricter summertime limitations for Ammonia-Nitrogen (May1 – October 31) (10.9 mg/L monthly average, 21.8 mg/L IMAX). These limitations will come into effect three (3) years after the permit effective date (see Part C.IV.). The summertime limitations for Ammonia-Nitrogen from the previously issued permit will be in effect the first three (3) years of the permit.

The 1.2 mg/L monthly average and 2.8 mg/L IMAX limitations for Total Residual Chlorine (TRC) in the previously issued permit were technology-based limitations. As per PA Code 92a.47(a)(8) (which refers to PA Code 92a.48(b)(2)), a monthly

Approve	Deny	Signatures	Date
X		Allison Seyfried / Environmental Engineering Specialist	March 20, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	March 20, 2019

Summary of Review

average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L has been applied to this permit renewal. The TRC Calculation Spreadsheet did not recommend more stringent water quality-based limitations. The permittee will be required to meet the new technology-based limits for TRC starting three years after the effective date of the permit (see Part C.III.).

The DRBC Docket No. D-2013-011 CP-2 requires the addition of monthly monitoring and reporting (paired with CBOD₅ effluent monitoring sample) of CBOD₅ (5-Day at 20° C) of the raw sewage influent, an 85% minimum removal of CBOD₅ (at 20° C) from May 1 to October 31, and monitoring/reporting for CBOD₅ removal from November 1 to April 30. The draft Docket also requires monthly monitoring/reporting for Total Dissolved Solids.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

Monitoring/reporting for Total Nitrogen (TN) and Total Phosphorus (TP) is now required for all Individual Sewage Permits. Monitoring is also included for Total Kjeldahl Nitrogen (TKN) and Nitrate-Nitrite as N since they are components of the calculation for TN.

There are no representative stream gages in the vicinity of the outfall. The state-wide default low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

As per the June 2018 Sewage Sludge / Biosolids Production and Disposal supplemental DMR report, sludge is hauled to Lehigh County Authority in Northampton County, PA by Got to Go Septic.

The existing permit expired on 5/31/2018 and the application for renewal was received on time. A Water Management System Inspection query was performed and indicated that on 6/27/2017 a Compliance Evaluation was performed with One Violation Noted.

There is currently one open violation for this client that may need to be resolved before issuance of the final permit:

1. 06/27/2017 - Violation ID 793175 – Violation Code 92A.44 – NPDES-Violation of effluent limits in Part A of permit (Program Specific ID: PA0060721).



Watershed Info -
Pocono Plateau Carr



WQM Modeling -
Pocono Plateau.pdf



TRC_CALC - Pocono
Plateau Camp.pdf



DRBC Docket
D-2013-011-2.pdf

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, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.015</u>
Latitude	<u>41° 13' 57.01"</u>	Longitude	<u>-75° 18' 50.48"</u>
Quad Name	<u>Buck Hill Falls</u>	Quad Code	<u>0943</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Taylor Creek</u>	Stream Code	<u>5843</u>
NHD Com ID	<u>25921334</u>	RMI	<u>0.83</u>
Drainage Area	<u>0.86 mi²</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.086</u>	Q ₇₋₁₀ Basis	<u>State-wide default</u>
Elevation (ft)	<u>1,893</u>	Slope (ft/ft)	<u>0.0088</u>
Watershed No.	<u>1-C</u>	Chapter 93 Class.	<u>HQ-CWF</u>
Existing Use	<u>EV(EXCEPTIONAL VALUE)</u>	Existing Use Qualifier	<u>RBP - Antidegradation</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>-</u>	Name	<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Easton Area Water System</u>		
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u>464</u>
PWS RMI	<u>110.4</u>	Distance from Outfall (mi)	<u>≈ 142</u>

Treatment Facility Summary				
Treatment Facility Name: Pocono Plateau Treatment Plant				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration	Liquid Chlorine	0.0043
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.015	-	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.015</u>
Latitude <u>41° 13' 56.24"</u>	Longitude <u>-75° 18' 50.02"</u>
Wastewater Description: <u>Sewage Effluent</u>	

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX		
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	Average Monthly	DRBC Docket No. D-2013-011 CP-2
CBOD5 Minimum Percent Removal (%) May 1- Oct 31	85%	Minimum Monthly Average	
CBOD5 % Removal (%) Nov 1 – Apr 30	Report	Average Monthly	
Total Dissolved Solids	Report	Average Monthly	
Ammonia-Nitrogen May 1 - Oct 31	10.9	Average Monthly	WQM 7.0 (2019) Modeling
	21.8	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	20.0	Average Monthly	Previous WQM Modeling
	40.0	IMAX	
Total Phosphorus	0.5	Average Monthly	Lake Wallenpaupack TMDL (Anti-Backsliding)
	1.0	IMAX	

Anti-Backsliding

No limitations were made less stringent.