pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0061603**
Facility Type	**Non-Municipal**	APS ID	**617436**
Major / Minor	**Minor**	Authorization ID	**1212476**

Applicant and Facility Information

Applicant Name	**Eagle Lake Community Association**	Facility Name	**Eagle Lake Community Association WWTP**
Applicant Address	P.O. Box 305 Gouldsboro, PA 18444-0305	Facility Address	Off Route 435, Approx. one mile from entrance gate Gouldsboro, PA 18424-0305
Applicant Contact	James Ott, Community Manager	Facility Contact	James Ott
Applicant Phone	(570) 842-7672	Facility Phone	(570) 842-7672
Client ID	43621	Site ID	604909
Ch 94 Load Status	Not Overloaded	Municipality	Covington Township
Connection Status	-	County	Lackawanna
Date Application Received	October 20, 2017	EPA Waived?	Yes
Date Application Accepted	January 5, 2018	If No, Reason	-
Purpose of Application	Renewal of NPDES permit for discharge of treated sewage.		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.500 MGD of treated sewage into an Unnamed Tributary to Tamarack Creek, an Exceptional Value, Migratory Fish (EV, MF) receiving stream in State Water Plan Basin 2-A (Upper Lehigh River). 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.

This stream has an existing use that matches its designated use, and this is reflected in the Chapter 93 regulations. Since the facility has been in existence prior to the reclassification of the Lehigh River basin, and the permittee is not proposing to increase the design discharge, the antidegradation requirements are not applicable. This Unnamed Tributary to Tamarack Creek is not listed as being impaired per the Pennsylvania Integrated Water Quality Monitoring and Assessment Report and verified by our regional Biologists.

A final Total Maximum Daily Load (TMDL) exists for the Lehigh River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) and pH associated with acid mine drainage (AMD). There are no approved Waste Load Allocations (WLA) for this facility. Since this is a sewage discharge with no industrial contributors, no appreciable quantities of these metals are expected to be present in the effluent.

Limitations for pH and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Total Suspended Solids (TSS), $CBOD_5$, Dissolved Oxygen, Total Residual Chlorine (TRC), Total Phosphorus, and Nitrate-Nitrite as N are water quality-based and carried over from the previous permit. Monitoring and reporting for Total Kjeldahl Nitrogen and Total Nitrogen were also carried over from the previous permit.

WQM modeling recommended stricter summertime limitations for Ammonia-Nitrogen (1.4 mg/L monthly average, 2.7 mg/L IMAX). These limitations will come into effect three (3) years after the permit effective date (see Part C.III.). Wintertime

Approve	Deny	Signatures	Date
X		Allison Seyfried / Environmental Engineering Specialist	March 21, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	March 21, 2019

Summary of Review

monitoring/reporting for Ammonia-Nitrogen has also been updated to three times the new summertime limitations (4.2 mg/L monthly average, 8.1 mg/L IMAX). The limitations for Ammonia-Nitrogen from the previously issued permit will be in effect the first three (3) years of the permit. eDMR data from the past year confirms the facility should be able to meet these new limits.

The latest DRBC Docket No. D-1987-055-4 requires the addition of 2/month reporting and monitoring for $CBOD_5$ (5-Day at 20° C) of the raw sewage influent and Percent Removal of $CBOD_5$ (at 20° C), The Docket also requires a 1,000 mg/l limit for Total Dissolved Solids reported quarterly.

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).

There are no representative stream gages in the vicinity of the outfall. The state-wide default low flow yield (LFY) of 0.1 cfs/mi^2 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 permittee's Biosolids Production and Disposal Supplemental DMR form and conversation with the site's Operator, sludge is hauled to Matamoras, PA by Koberlien.

The existing permit expired on 4/30/2018 and the application for renewal was submitted on time. A Water Management System Inspection query was run and indicated that on 7/11/2018 a Compliance Evaluation was performed with One Violation Noted.

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

1. 04/18/2018 - Violation ID 831480 – Violation Code 92A.41(A)8 – NPDES-Failure to provide information or records required by the permit or otherwise needed to determine compliance (Program Specific ID: PA0061603).

2. 07/11/2018 - Violation ID 831481 – Violation Code 92A.41(A)10B – NPDES-Failure to utilize approved analytical methods (Program Specific ID: PA0061603).

Watershed Info - Eagle Lake.pdf

WQM 7.0 Modeling - Eagle Lake.pdf

TRC_CALC - Eagle Lake.pdf

DRBC Docket D-1987-055-4.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.	001	Design Flow (MGD)	0.500
Latitude	41º 16' 19.53"	Longitude	-75º 29' 23.20"
Quad Name	Sterling	Quad Code	0842
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Tamarack Creek	Stream Code	4609
NHD Com ID	26273837	RMI	0.31
Drainage Area	0.0559 mi^2	Yield (cfs/mi^2)	0.10
Q_{7-10} Flow (cfs)	0.006	Q_{7-10} Basis	State-wide default
Elevation (ft)	1,896.50	Slope (ft/ft)	0.021
Watershed No.	2-A	Chapter 93 Class.	EV, 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	Final	Name	Lehigh River TMDL
Nearest Downstream Public Water Supply Intake	Hazelton City Authority		
PWS Waters	Lehigh River	Flow at Intake (cfs)	43
PWS RMI	62.9	Distance from Outfall (mi)	≈ 39.9

Treatment Facility Summary

Treatment Facility Name: Eagle Lake Community Association

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sand Filters	Chlorine Gas	0.146

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.500	41.7	-	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.500
Latitude 41º 16' 20.00" **Longitude** -75º 29' 24.00"
Wastewater Description: Sewage Effluent

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
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)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.02	Average Monthly	TRC Calculation per 1997 permit renewal
	0.04	IMAX	
Dissolved Oxygen	7.0	Minimum	Modeling per 1986 Pollution Report
$CBOD_5$	10.0	Average Monthly	Modeling per 1986 Pollution Report
	20.0	IMAX	
Total Suspended Solids	10.0	Average Monthly	Guidance for discharge to drainage swales & ditches, per 1986 Pollution Report
	20.0	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	4.2	Average Monthly	WQM 7.0 (2019) Modeling
	8.1	IMAX	
Ammonia-Nitrogen May 1 - Oct 31	1.4	Average Monthly	
	2.7	IMAX	
Total Phosphorus	1.0	Average Monthly	Lake Model per 1986 Pollution Report
	2.0	IMAX	
Nitrate-Nitrite as N	10.0	Average Monthly	Calculations per 1986 Pollution Report
	20.0	IMAX	
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	Average Monthly	DRBC Docket No. D-1987-055-4
CBOD5 Percent Removal (%)	Report	Average Monthly	
Total Dissolved Solids	1,000	Average Quarterly	

Anti-Backsliding

No limitations were made less stringent.