

Northeast Regional Office CLEAN WATER PROGRAM

Application Type Renewal Facility Type Municipal Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0276073

 APS ID
 955870

 Authorization ID
 1425446

Applicant and Facility Information Lemon Township Tunkhannock Township Joint Municipal Sewer Applicant Name Authority **Facility Name** Lake Carey WWTP 113 Tunkhannock Twp Drive **Facility Address** Billings Mill Road Applicant Address Tunkhannock, PA 18657 Tunkhannock, PA 18657 Rebecca Kilmer **Facility Contact** Rebecca Kilmer Applicant Contact (570) 836-0514 Applicant Phone (570) 836-0514 **Facility Phone** Client ID Site ID 826525 339698 Ch 94 Load Status WWTP not currently operating Municipality Tunkhannock Township **Connection Status** WWTP not currently operating County Wyoming **Date Application Received** January 27, 2023 EPA Waived? Yes **Date Application Accepted** January 27, 2023 If No, Reason Purpose of Application Renewal of NPDES permit.

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge up to 0.120 MGD of treated sewage to Tunkhannock Creek, a trout stocking and migratory fish designated receiving stream in State Water Plan watershed 04-F (Tunkhannock Creek). Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use.

Data from stream gage 01534000 (Tunkhannock Creek near Tunkhannock, PA) was used to generate the Q₇₋₁₀ and low flow yield to model the discharge. Drainage areas, RMIs and elevations were obtained using USGS StreamStats and DEP's eMapPA (see attached).

WQM 7.0 modeling did not recommend more stringent limitations for Ammonia-N, D.O., or CBOD₅. The TRC calculation spreadsheet did not recommend more stringent limitations for TRC. Since the facility will utilize ultraviolet light for disinfection, the permittee shall sample for TRC on each day chlorine is used for backup disinfection, cleaning, or other purposes (see Part C.I.D.)

The Toxics Management Spreadsheet was not run since there's no data to utilize. The WWTP has not discharged and the collection system for the WWTP is currently being constructed.

The minimum monitoring frequency for all parameters with limitations are consistent with Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits (doc. No. 362-0400-001).

This is a non-significant Phase 5 Chesapeake Bay facility servicing both existing residences (with on-lot systems to be retired) and provisions for new residences. There was no capacity available in the aggregate WLAs for this facility, therefore,

Approve	Deny	Signatures	Date
x		Brian Burden	
~		Brian Burden, E.I.T. / Project Manager	July 25, 2023
Х		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	8-7-23

Summary of Review

the permit contains TN and TP cap loads of "0" and the facility will be expected to purchase credits and/or apply offsets to achieve compliance. The permit includes conditions for applying offsets for the existing on-lot systems (382 EDUs). Planning approval allowed an additional 98 EDUs for future connection to the collection system.

The requirement to report total monthly loads of nutrient parameters has been removed from the permit. All other monitoring requirements and limitations from the previous permit are carried over for this renewal. Quarterly monitoring/reporting for E. Coli is added to the permit as per updated guidance.

The existing permit expires on 7/31/2023 and the renewal application was submitted in a timely manner.

Sludge use and disposal description and location(s): N/A, the facility has not accepted wastewater yet.



WQMTRC Calculation.pdf StreamStats OutfallStreamStats PointElevations RMIs.pdfModeling.pdf001.pdf2.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)	0.120	
Latitude 41º 3	3' 9"		Longitude	75º 55' 7"	
Quad Name Tur	nkhanno	ock	Quad Code	0638	
Wastewater Descrip	otion:	Sewage Effluent			
Receiving Waters	Tunkh	annock Creek (TSF, MF)	Stream Code	28784	
NHD Com ID	66406	311	RMI	3.02	
Drainage Area	395 m	li ²	Yield (cfs/mi²)	0.045	
Q7-10 Flow (cfs)	17.8		Q7-10 Basis	Gage 01534000	
Elevation (ft)	599		Slope (ft/ft)	0.0016	
Watershed No.	4-F		Chapter 93 Class.	_TSF, MF	
Existing Use	-		Existing Use Qualifier		
Exceptions to Use	-		Exceptions to Criteria		
Assessment Status		Impaired			
Cause(s) of Impairn	nent	Mercury			
Source(s) of Impair	ment	Unknown Source			
TMDL Status		-	Name		
Background/Ambier	nt Data		Data Source		
pH (SU)		-	-		
Temperature (°F)		-	-		
Hardness (mg/L)		-	-		
Other:		-	-		
Nearest Downstrea	m Publi	c Water Supply Intake	Danville Municipal Water Auth	ority	
PWS Waters	Susqueh	nanna River	Flow at Intake (cfs)	1123	
PWS RMI 1	22.5	<u> </u>	Distance from Outfall (mi)	~84	

Treatment Facility Summary					
Treatment Facility Name: Lake Carey WWTP					
WQM Permit No.	Issuance Date				
6618404	1/11/2019				
	Degree of			Avg Annual	
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)	
Sewage	Secondary with Total Nitrogen Reduction	Oxidation Ditch	Ultraviolet	0.120	
Hydraulic Capacity	Organic Capacity			Biosolids	
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal	
0.223	265	Not Operating	Combination	Landfill (proposed)	

Development of Effluent Limitations

Outfall No.	001		Design Flow (MGD)	0.120	
Latitude	41º 33' 9"		Longitude	-75º 55' 7"	
Wastewater De	escription:	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
CROD-	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40.0	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	50.0	IMAX	-	-
Total Suspended	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45.0	Average Weekly	133.102(b)(2)	92a.47(a)(2)
	60.0	IMAX	-	-
рН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
	0.5	Average Monthly	-	92a.48(b)(2)
Total Residual Chlorine	1.6	IMAX	-	-

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Ammonia-N	25.0	Average Monthly	Established during new permit issuance (2018)
Dissolved Oxygen	5.0	Minimum	Established during new permit issuance (2018)
Net Total Nitrogen	0 lbs	Total Annual	Chesapeake Bay requirements
Net Total Phosphorus	0 lbs	Total Annual	Chesapeake Bay requirements



Approve	Deny	Signatures	Date
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