

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0114472  
APS ID 1044504  
Authorization ID 1363659

**Applicant and Facility Information**

Applicant Name	<u>Cherry Township Board of Supervisors</u>	Facility Name	<u>Cherry Township Wastewater Treatment Plant</u>
Applicant Address	<u>11961 Route 87</u> <u>Dushore, PA 18614-7440</u>	Facility Address	<u>Pennsylvania Avenue</u> <u>Mildred, PA 18614</u>
Applicant Contact	<u>Diane Fitzgerald</u>	Facility Contact	<u>Diane Fitzgerald</u>
Applicant Phone	<u>(570) 928-9228</u>	Facility Phone	<u>(570) 928-9228</u>
Client ID	<u>53072</u>	Site ID	<u>251252</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Cherry Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Sullivan</u>
Date Application Received	<u>July 29, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of an existing NPDES permit for the discharge of treated sewage.</u>		

**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		<i>Derek S. Garner</i> Derek S. Garner / Project Manager	May 2, 2022
X		<i>Nicholas W. Hartranft</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	May 3, 2022

**Discharge, Receiving Waters and Water Supply Information**

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.07</u>
Latitude <u>41° 28' 26.68"</u>	Longitude <u>-76° 22' 54.88"</u>
Quad Name <u>Laporte</u>	Quad Code <u>0734</u>
Wastewater Description: <u>Sewage Effluent</u>	

Receiving Waters <u>Birch Creek</u>	Stream Code <u>20365</u>
NHD Com ID <u>66906907</u>	RMI <u>4.18</u>
Drainage Area <u>7.46</u>	Yield (cfs/mi <sup>2</sup> ) <u>0.05</u>
Q <sub>7-10</sub> Flow (cfs) <u>0.38</u>	Q <sub>7-10</sub> Basis <u>Streamgage No. 01552500</u>
Elevation (ft) <u>1780</u>	Slope (ft/ft) <u>0.01</u>
Watershed No. <u>10-B</u>	Chapter 93 Class. <u>CWF</u>
Existing Use <u>Exceptional Value ("EV")<sup>(1)</sup></u>	Existing Use Qualifier <u>RBP - Antidegradation</u>
Exceptions to Use <u>n/a</u>	Exceptions to Criteria <u>n/a</u>
Assessment Status <u>Attaining Use(s)</u>	

Nearest Downstream Public Water Supply Intake <u>PA American Water Company</u>	
PWS Waters <u>West Branch Susquehanna River</u>	Flow at Intake (cfs) <u>679.73</u>
PWS RMI <u>10.66</u>	Distance from Outfall (mi) <u>79</u>

<sup>(1)</sup> DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use under 25 Pa. Code § 93.9. In developing the draft NPDES permit, DEP is proposing to protect 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 tentative determination to protect the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.

**Treatment Facility Summary**

Operation of the CT WWTP ("CT WWTP") is covered under WQM Permit No. 5791401, issued July 22, 1992. The headworks consists of a comminutor and a backup manual bar screen. After screening the wastewater enters a splitter box where the flow is diverted into one of two 31,890-gallon sequencing batch reactor (SBR) units. After treatment in the SBR units the wastewater is disinfected in a 5,830-gallon chlorine contact tank using gas chlorine. A tablet dechlorinator was installed in October 2013 to comply with total residual chlorine limits established in the facility's NPDES permit. After disinfection, the treated effluent is discharged via Outfall 001 to Birch Creek.

Sludge is aerobically digested in duplicate 8,800-gallon tanks. The sludge is then pumped to a 672 sq. ft. covered drying bed.

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Gas Chlorine	0.07
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.07	117	Not Overloaded	Dewatering	Landfill

**Compliance History**

The CT WWTP was most recently inspected by DEP on February 1, 2022. All required treatment units were operational and online at the time of the inspection.

The following violations occurred, and have been resolved, during the permit’s existing term:

Violation ID	Violation Date	Violation Type	Violation Type Description	Resolved Date	Inspection ID
943920	2/1/2022	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	2/1/2022	3315888
944787	12/20/2021	302.202	Operator Certification - Failure to submit annual system fee	1/4/2022	3319858

There are no open violations associated with the permittee.

**Development of Effluent Limitations**

Outfall No.	001	Design Flow (MGD)	0.07
Latitude	41° 28' 26.90"	Longitude	-76° 22' 54.90"
Wastewater Description:	Sewage Effluent		

**Technology-Based Limitations (“TBELs”)**

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 <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	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 <sup>(1)</sup>	0.05	Average Monthly	-	92a.48(b)(2)

<sup>(1)</sup> Per 25 PA Code § 92a.48(b)(3) the CT WWTP is required to dechlorinate its effluent due to the Exceptional Value existing use classification of Birch Creek. A total residual chlorine (TRC) instantaneous maximum limit of 0.05 mg/L was established in previous renewals to demonstrate dechlorination is taking place. It is recommended that the existing limit remain.

**Water Quality-Based Limitations (“WQBELs”)**

WQBELs were previously evaluated during the permit’s most recent renewal in 2016. The evaluation determined that the existing WQBELs for ammonia-n should remain in the permit, and that WQBELs for CBOD<sub>5</sub>, dissolved oxygen, TRC were not necessary. There does not appear to be any significant change to the discharge or the receiving water that would cause a change to model input data. Accordingly, DEP has chosen not to remodel the discharge and recommends the existing WQBELs remain.

**Best Professional Judgment (“BPJ”) Limitations**

DEP recommends that existing monitoring requirements for dissolved oxygen remain in the permit to help characterize the effluent. Additionally, BOD5 and TSS influent monitoring should remain in the permit to help characterize the wastewater and with Chapter 94 reporting requirements.

An annual reporting requirement for E. Coli is proposed per the 2017 Triennial Review of Water Quality Standards, published in the PA Bulletin on July 11, 2020.

**Chesapeake Bay Requirements**

The CT WWTP is classified as a Phase 5 facility (average annual design flow > 0.002 MGD and < 0.2 MGD) per the Supplement to Phase III of Pennsylvania’s Watershed Implementation Plan (WIP). The WIP requires all Phase 5 facilities to monitor for Total Nitrogen (TN) and Total Phosphorus (TP) at a frequency of no less than annually unless the facility has previously completed at least two years of nutrient monitoring. The facility previously completed nutrient monitoring in June 2008. Over the course of sampling the facility averaged approximately 5 lbs/day of TN and 0.5 lbs/day of TP.

**Anti-Backsliding**

No limits or monitoring requirements are proposed to be made less stringent. Anti-backsliding requirements do not impact the permit.

**Existing Effluent Limitations and Monitoring Requirements**

The existing effluent limitations and monitoring requirements are as follows:

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	1/day	Grab
Dissolved Oxygen	XXX	XXX	Report	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report	XXX	0.05	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	14	23	XXX	25.0	40.0	50	1/week	8-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	Grab
Total Suspended Solids Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	Grab
Total Suspended Solids	17	26	XXX	30.0	45.0	60	1/week	8-Hr Composite
Fecal Coliform (CFU/100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (CFU/100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ammonia-Nitrogen Nov 1 - Apr 30	Report	Report	XXX	Report	Report	XXX	1/week	8-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	6.0	9.0	XXX	11.0	16.0	22	1/week	8-Hr Composite

Compliance Sampling Location: Outfall 001

**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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	Report	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	Report	XXX	0.05	1/day	Grab
CBOD5	14	23	XXX	25.0	40.0	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	8-Hr Composite
TSS	17	26	XXX	30.0	45.0	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Ammonia Nov 1 - Apr 30	Report	Report	XXX	Report	Report	XXX	1/week	8-Hr Composite
Ammonia May 1 - Oct 31	6.0	9.0	XXX	11.0	16.0	22	1/week	8-Hr Composite

Compliance Sampling Location: Outfall 001