

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0061212
APS ID 990656
Authorization ID 1268745

Applicant and Facility Information

Applicant Name	<u>Christopher Yerger</u>	Facility Name	<u>Christopher Yerger WWTP</u>
Applicant Address	<u>655 Route 61</u> <u>Orwigsburg, PA 17961-2231</u>	Facility Address	<u>655 Route 61</u> <u>Orwigsburg, PA 17961-2231</u>
Applicant Contact	<u>Christopher R. Yerger, Owner</u>	Facility Contact	<u>Roger Roadcap, Operator</u>
Applicant Phone	<u>(570) 366-3881</u>	Facility Phone	<u>(570) 366-3881</u>
Client ID	<u>349038</u>	Site ID	<u>248658</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>North Manheim Township</u>
Connection Status	<u>-</u>	County	<u>Schuylkill</u>
Date Application Received	<u>March 4, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 11, 2019</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 0.005 MGD of treated sewage into an Mahannon Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 3-A (Upper Schuylkill River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. 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 NPDES permit has been transferred from Mik-Joan, Inc. to Christopher R. Yerger.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. Technology-based limitations for Ammonia-Nitrogen and Dissolved Oxygen (DO) have been added to the permit. WQM 7.0 modeling did not recommend stricter limits.

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 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 annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

A final Total Maximum Daily Load (TMDL) exists for the Little Schuylkill River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) and depressed pH associated with acid mine drainage (AMD). There are no approved Waste

Approve	Deny	Signatures	Date
X		Allison Seyfried / Environmental Engineering Specialist	July 18, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	July 18, 2019

Summary of Review

Load Allocation (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.

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 permittee's operator, sludge is rarely (if ever) hauled out. However, if they do it is hauled to Pine Grove Joint Treatment Authority by Strouse Brothers.

The drainage area and Q₇₋₁₀ flow information are similar to the information used in the 1984 Pollution Report.

The existing permit expired on 3/31/2019 and the application for renewal was received on time. A Water Management System Inspection query was performed and indicated that on 1/22/2018 a Compliance Evaluation was performed, with Follow-up Inspections on 3/13/2018 and 5/09/2018.

There are currently five open violations for this facility that may need to be resolved before issuance of the final permit:

1. 01/22/2018 - Violation ID 807528 – Violation Code 92A.44 – NPDES-Violation of effluent limits in Part A of permit (Program Specific ID: PA0061212).
2. 03/13/2018 - Violation ID 814689 – Violation Code 92A.44 – NPDES-Violation of effluent limits in Part A of permit (Program Specific ID: PA0061212).
3. 05/09/2018 - Violation ID 820259 – Violation Code 92A.44 – NPDES-Violation of effluent limits in Part A of permit (Program Specific ID: PA0061212).
4. 05/09/2018 - Violation ID 250260 – Violation Code 92A.44 – NPDES-Violation of effluent limits in Part A of permit (Program Specific ID: PA0061212).
5. 05/09/2018 - Violation ID 820261 – Violation Code 92A.44 – NPDES-Violation of effluent limits in Part A of permit (Program Specific ID: PA0061212).



Watershed_Info -
Christopher Yerger.r



WQM Modeling -
Yerger.pdf



TRC_CALC -
Christopher Yerger.r



1984 Pollution
Report.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)	0.005
Latitude	40° 38' 18.60"	Longitude	-76° 6' 52.83"
Quad Name	Orwigsburg	Quad Code	1337
Wastewater Description: Sewage Effluent			
Receiving Waters	Mahannon Creek (CWF, MF)	Stream Code	2318
NHD Com ID	25986216	RMI	0.8100
Drainage Area	6.38 mi ²	Yield (cfs/mi ²)	0.10
Q ₇₋₁₀ Flow (cfs)	0.638	Q ₇₋₁₀ Basis	State-wide default
Elevation (ft)	500.50	Slope (ft/ft)	0.005
Watershed No.	3-A	Chapter 93 Class.	CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Flow Alterations, HABITAT ALTERATIONS, NUTRIENTS, TOTAL SUSPENDED SOLIDS (TSS), TOTAL SUSPENDED SOLIDS (TSS)		
Source(s) of Impairment	AGRICULTURE, CHANNELIZATION, MUNICIPAL POINT SOURCE DISCHARGES, MUNICIPAL POINT SOURCE DISCHARGES, RURAL (RESIDENTIAL AREAS)		
TMDL Status	Final	Name	Upper Schuylkill River
Nearest Downstream Public Water Supply Intake	Pottstown Borough Water Authority		
PWS Waters	Schuylkill River	Flow at Intake (cfs)	-
PWS RMI	57	Distance from Outfall (mi)	~ 58

Treatment Facility Summary				
Treatment Facility Name: Christopher Yerger WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Chlorine	0.00375
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.005	-	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.005</u>
Latitude <u>40° 38' 19.18"</u>	Longitude <u>-76° 6' 52.33"</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		
Ammonia-Nitrogen Nov 1 - Apr 30	Report	Average Monthly	-	BPJ
Ammonia-Nitrogen May 1 - Oct 31	25.0	Average Monthly		
	50.0	IMAX		
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

N/A

Anti-Backsliding

No limitations were made less stringent.