

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0053201
 APS ID 1057609
 Authorization ID 1386444

Applicant and Facility Information

Applicant Name	<u>Matthew Smith</u>	Facility Name	<u>Roy Ann Diner STP</u>
Applicant Address	<u>1318 Bethlehem Pike</u> <u>Sellersville, PA 18960-1464</u>	Facility Address	<u>1318 Bethlehem Pike</u> <u>Sellersville, PA 18960-1464</u>
Applicant Contact	<u>Matt Smith</u>	Facility Contact	<u>Matthew Smith</u>
Applicant Phone	<u>(267) 228-3895</u>	Facility Phone	<u>(267) 228-3895</u>
Client ID	<u>82389</u>	Site ID	<u>251935</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>West Rockhill Township</u>
Connection Status		County	<u>Bucks</u>
Date Application Received	<u>February 7, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The applicant requests renewal of a NPDES permit to discharge 4,500 gallons per day of treated sewage from Roy Ann Diner, Inc.; sewage treatment plant (STP) located at 1318 Old Bethlehem Pike in West Rockhill Township, Bucks County. The treated effluent will continue to discharge into Three Mile Run. At the point of discharge, the receiving stream is classified as trout stocking fisheries (TSF). There are no changes to the wastewater characteristics, flow, and receiving stream classification since last renewal; therefore, all existing permit limits are carried over in this renewal. As per the approved Lake Nockamixon TMDL, a Phosphorus limit of 0.5 mg/l will continue in this renewal. Influent Monitoring for BOD5 & TSS and effluent monitoring for Total Nitrogen were added in the last renewal which is consistent with SOP.

The STP consists of two grease traps, two flow equalization tanks, two aeration tanks, a final clarifier, two sand filters, a chlorine contact tank, an effluent pump station, a sludge holding tank, a backwash holding tank, and a chemical feed system. Some units of the treatment plant are deteriorating and need replacement. The applicant may choose to tie into local sewer line and decommission the treatment plant. There were few violations for exceeding permit limits for Fecal Coliform, Total Suspended Solids, and Phosphorus.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	4/1/2022
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	04/01/2022

Summary of Review

Following are the effluent limits:

PARAMETERS	EFFLUENT LIMITS (AV. MO in mg/l)	BASIS
CBOD5	25	92a.47
Total Suspended Solids	30	92a.47
Ammonia as N (5-1 to 10-31)	10	BPJ
Ammonia as N (11-1 to 4-30)	20	BPJ
Phosphorus as P	0.5	Lake Nockamixon TMDL
Total Residual Chlorine	0.5	92a.47-48
Fecal Coliform (#/100 ml)	# 200/ 100 ml (Geo Mean)	92a.47
pH (STD)	6.0 to 9.0 SU	92a.47, 95.2
Dissolved Oxygen)	Minimum of 4.0 mg/l	BPJ
Total Nitrogen	Report	92a.61
Oil and Grease	15	BPJ

Act 14 Notification to Bucks County and West Rockhill Township on January 24, 2022.

Sludge use and disposal description and location(s): Sludge is sent to off-site for disposal.

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>0.0045</u>
Latitude	<u>40° 22' 48.04"</u>	Longitude	<u>-75° 19' 3.62"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Three Mile Run (TSF)</u>	Stream Code	_____
NHD Com ID	<u>26053650</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-D</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____

Assessment Status	<u>Impaired</u>
Cause(s) of Impairment	<u>FLOW REGIME MODIFICATION, NUTRIENTS</u>
Source(s) of Impairment	<u>HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), REMOVAL OF RIPARIAN VEGETATION</u>
TMDL Status	Name _____

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	Flow at Intake (cfs)
PWS RMI	Distance from Outfall (mi)

Treatment Facility Summary				
Treatment Facility Name: Roy Ann Diner STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary with Phosphorus Reduction	Extended Aeration	Hypochlorite	0.0045
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0045		Not Overloaded		

Compliance History

DMR Data for Outfall 001 (from February 1, 2021 to January 31, 2022)

Parameter	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21
Flow (MGD) Average Monthly	0.00312	0.00282	0.00342	3120	0.00301	0.00272	2100	3750	0.00351	0.00305	0.00332	0.00165
pH (S.U.) Instantaneous Minimum	7.8	7.8	7.4	6.8	6.7	7.0	6.9	7.4	6.4	6.9	7.1	7.4
pH (S.U.) Instantaneous Maximum	8.3	8.5	8.5	8.3	8.7	8.7	8.6	8.6	8.5	8.5	8.1	8.4
DO (mg/L) Instantaneous Minimum	7.7	7.9	6.9	6.7	6.4	6.2	6.3	5.9	6.4	7.6	9.4	9.6
TRC (mg/L) Average Monthly	0.02	0.03	0.1	0.1	0.03	0.02	0.01	0.1	0.02	0.1	0.001	0.1
TRC (mg/L) Instantaneous Maximum	0.18	0.21	0.27	0.93	0.39	0.47	0.34	0.1	0.39	0.36	0.11	0.46
CBOD5 (mg/L) Average Monthly	5.0	< 2.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	5.0	5.0
BOD5 (mg/L) Influent Average Monthly		4.0			1016			1103			902	
TSS (mg/L) Average Monthly	4.0	3.0	1.0	5.0	9.0	2.0	3.0	2.0	3.0	13.0	12.0	9.0
TSS (mg/L) Influent Average Monthly		5.0			360			244			320	
Oil and Grease (mg/L) Average Monthly	< 5.0	< 5.0	< 5.0	6.0	< 5.0	< 5.0	< 5.0	7.0	< 5.0	< 5.0	9.0	6.0
Oil and Grease (mg/L) Instantaneous Maximum	< 5.0	< 5.0	< 5.0	6.0	< 5.0	< 5.0	< 5.0	7.0	< 5.0	< 5.0	9.0	6.0
Fecal Coliform (No./100 ml) Geometric Mean	2	< 1	< 1	< 1	3	600	< 1	7	7	< 1	4	< 1

**NPDES Permit Fact Sheet
Roy Ann Diner STP**

NPDES Permit No. PA0053201

Fecal Coliform (No./100 ml) Instantaneous Maximum	2	< 1	< 1	< 1	3	600	< 1	7	7	< 1	4	< 1
Total Nitrogen (mg/L) Average Monthly	13.67	GG	GG	40.8	GG	GG	52.42	GG	GG	33.3	GG	GG
Ammonia (mg/L) Average Monthly	< 0.02	< 0.1	< 0.1	0.04	< 0.1	< 0.1	< 0.1	< 0.1	0.33	1.23	0.38	0.11
Total Phosphorus (mg/L) Average Monthly	0.25	0.55	0.55	0.16	0.1	0.28	0.12	0.25	0.12	0.16	0.22	0.76

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) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	1/month	Grab
BOD5 Raw Sewage Influent	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
TSS Raw Sewage Influent	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40	1/month	Grab

Outfall001 , Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Ammonia May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	0.5	XXX	1	1/month	Grab