

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0063037
APS ID 579225
Authorization ID 1404648

Applicant and Facility Information

Applicant Name	<u>Rau Chris L</u>	Facility Name	<u>Stoney Creek Hotel</u>
Applicant Address	<u>26 Rau Road</u> <u>Jim Thorpe, PA 18229-3571</u>	Facility Address	<u>Route 903 And Smith Road</u> <u>Albrightsville, PA 18229</u>
Applicant Contact	<u>Chris Rau</u>	Facility Contact	<u>Chris Rau</u>
Applicant Phone	<u>(570) 325-2038</u>	Facility Phone	<u>(570) 325-2038</u>
Client ID	<u>6726</u>	Site ID	<u>252796</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Penn Forest Township</u>
Connection Status		County	<u>Carbon</u>
Date Application Received	<u>July 28, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>Renewal of NPDES permit to discharge treated wastewater from MISF1</u>		

Summary of Review

The applicant is requesting the renewal of permit PA0063037 to discharge 0.025 MGD of treated wastewater into Stony Creek, an Exceptional Value, Migratory Fishes (EV, MF) designated stream in state water plan basin 02-B (Middle Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use that is more protective than its designated use. This system is currently out of service, so there is no discharge from it. Although there are no plans to reopen the Stony Creek Hotel, the applicant wants to renew the permit for use in the case that the hotel does open again.

The facility is a 25,000 GPD aeration treatment plant utilizing sodium hypochlorite for disinfection. The applicant claims to not use any other wastewater treatment chemicals and is not proposing any changes to the facility over the next five years. According to a DEP compliance inspection on 10/17/2022, the Stoney Creek Hotel has been shut down since June 2011, and the water in the building has been disconnected from the well, so there is no flow going to the underground sand filtration system. For this reason, the applicant did not include effluent monitoring results with the application. It is requested that if the applicant plans to operate the facility again, the DEP is notified.

Effluent limitations are recorded in the tables below. As conditions remain the same since the last permit issuance, the technology based effluent limits and monitoring requirements are not being changed for this renewal. In order to determine if water quality-based limits are still applicable or if they need to be updated, water quality monitoring was performed using WQM 7.0. Stream and drainage area data was obtained using USGS StreamStats. TRC limitations have been carried over from the previous permit cycle as conditions at the treatment plant have not changed. If technology-based limits and water quality-based limits pertained to the same parameter, the more stringent limitation was used to maintain the quality of the stream.

To establish effluent limits for CBOD₅, Dissolved Oxygen (DO), and NH₃-N by using WQM 7.0, a Low Flow Yield must be determined. At the point of Outfall 001, the drainage area (2.95 mi²) is not large enough to obtain an accurate 7-day 10-year

Approve	Deny	Signatures	Date
X		<i>Rory Sgarlat</i> Rory Sgarlat, EIT / Environmental Engineering Specialist	December 7, 2022
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	12-12-22

Summary of Review

low flow value (Q₇₋₁₀) according to StreamStats. Using a point downstream from Outfall 001 with a drainage area of 9.95 mi², a Q₍₇₋₁₀₎ of 1.05 ft³/s was found. Using this value and the drainage area of 2.95 mi² from discharge point of Outfall 001, a LFY of 0.106 cfs/mi² was determined. This value was entered into WQM 7.0 along with discharge concentrations of CBOD₅, DO, and NH₃-N based on the current effluent limitations to determine appropriate effluent limits for the discharge at Outfall 001. This resulted in maintaining the current limits for CBOD₅ and DO but reducing the limits of NH₃-N to a 22 mg/L monthly average and a 44 mg/L instantaneous maximum.

The only other change to discharge monitoring is the inclusion of yearly monitoring for E. coli. Updated monitoring requirements can be found in the table below. StreamStats data and the WQM 7.0 calculations are attached to this document. There are currently no open violations for the client that would warrant withholding issuing a permit.

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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	XXX	XXX	XXX	25.0	XXX	50	2/month	8-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Nitrate-Nitrite as N (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Nitrogen (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Calculation
Ammonia-Nitrogen	XXX	XXX	XXX	22.0	XXX	44	2/month	8-Hr Composite
Total Kjeldahl Nitrogen (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Phosphorus (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite

Summary of Review

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.



StreamStats Point
1.pdf



StreamStats Point
2.pdf



WQM7 Effluent
Limit Calculations.pc

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.025</u>
Latitude	<u>40° 58' 14.95"</u>	Longitude	<u>-75° 38' 29.37"</u>
Quad Name	<u>Christmans</u>	Quad Code	<u>1140</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Stony Creek (EV, MF)</u>	Stream Code	<u>4161</u>
NHD Com ID	<u>26285675</u>	RMI	<u>4.2</u>
Drainage Area	<u>2.95 mi²</u>	Yield (cfs/mi ²)	<u>0.106</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.313</u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u>1550</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>2-B</u>	Chapter 93 Class.	<u>EV, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>Final</u>	Name	<u>Lehigh River TMDL</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>		<u>-</u>
Temperature (°F)	<u>-</u>		<u>-</u>
Hardness (mg/L)	<u>-</u>		<u>-</u>
Other:	<u>-</u>		<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>-</u>		
PWS Waters	<u>-</u>	Flow at Intake (cfs)	<u>-</u>
PWS RMI	<u>-</u>	Distance from Outfall (mi)	<u>-</u>

Changes Since Last Permit Issuance: No changes reported

Other Comments: -

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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Nitrate-Nitrite (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Nitrogen (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Calculation
Ammonia	XXX	XXX	XXX	22.0	XXX	44	2/month	8-Hr Composite
TKN (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Phosphorus (lbs/year)	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite

Compliance Sampling Location: Outfall 001

