

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0029874  
 APS ID 571607  
 Authorization ID 1416484

**Applicant and Facility Information**

Applicant Name	<u>Skytop Lodge</u>	Facility Name	<u>Skytop Lodge STP</u>
Applicant Address	<u>1 Skytop Lodge Road</u> <u>Skytop, PA 18357</u>	Facility Address	<u>Falls Road</u> <u>Skytop, PA 18357</u>
Applicant Contact	<u>Brian Strader</u>	Facility Contact	<u>James Laux</u>
Applicant Phone	<u>(570) 595-8905</u>	Facility Phone	<u>(610) 451-9155</u>
Client ID	<u>77286</u>	Site ID	<u>243771</u>
Ch 94 Load Status	<u>N/A</u>	Municipality	<u>Barrett Township</u>
Connection Status	<u>N/A</u>	County	<u>Monroe</u>
Date Application Received	<u>October 26, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>October 26, 2022</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

**Summary of Review**

The applicant is requesting renewal of NPDES Permit No. PA0029874 to discharge up to 0.075 MGD of treated sewage into Leavitt Branch, a High-Quality, Cold Water and Migratory Fishes (HQ-CWF, MF) receiving stream. 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.

Technology-based limitations for CBOD<sub>5</sub>, TSS, Fecal Coliform, TRC and pH are carried over from the previous permit. Water quality-based limitations for D.O., Ammonia-N and TDS are carried over from the previous permit. The TDS limitations and wintertime Ammonia-N limitations were initiated by the DRBC. WQM 7.0 and the TRC calculation spreadsheet did not recommend more stringent limitations. Drainage areas and elevations for the modeling points were obtained from USGS StreamStats and RMIs were obtained from DEP's eMapPA. The pollution report from 2011 utilized downstream gage data from Brodhead Creek near Analomink (gage 01440400) to develop a low flow yield (LFY) for previous renewals. Current data from the gage was used to develop a LFY of 0.11 cfs/mi<sup>2</sup>.

Monitoring and reporting requirements for Total Nitrogen, Nitrate-Nitrite as N, TKN, Total Phosphorus, and influent CBOD<sub>5</sub> are carried over from the previous permit. Quarterly monitoring/reporting for E. Coli is added to the permit as per latest DEP guidance.

DRBC Docket D-2006-013-4 requires 85% minimum removal for CBOD<sub>5</sub> and the requirement is included in this renewal.

DEP's Toxics Management Spreadsheet (TMS) was used to model sampling results provided with the permit renewal application. The TMS recommended limitations for Total Copper and monitoring requirements for Total Zinc. The Total Copper limitations will come into effect 3 years after the permit effective date. Based on the sampling data provided, it appears the Total Copper limitation cannot be consistently met. A compliance schedule and requirement to complete a

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	November 14, 2023
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	12-21-23

### Summary of Review

Toxics Reduction Evaluation for Total Copper is included in Part C of the permit. The permittee may also choose to conduct site-specific studies to update the TMS modeling inputs in an effort to adjust the new limitations (see Part C.III).

Skytop Lodge opened in 1928, and since it's suspected the older piping at the facility may be the cause of elevated copper in the effluent, the requirement to complete a corrosion control feasibility study is added to Part C.IV of the permit.

The minimum measurement frequency for all parameters with limitations are consistent with Table 6-3 from DEP's "Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits" (doc. No. 362-0400-001). The nearest downstream public water supply withdrawal location is approximately 17 miles downstream on Brodhead Creek and this discharge is not expected to negatively impact it.

Sludge use and disposal description and location(s): The application indicates 3.752 dry tons of sewage sludge was hauled to various wastewater treatment plants by EEMA O&M Services Group and Gotta Go Septic during the previous year.

#### Compliance Evaluation

There are 3 open WPC NPDES violations for this facility, dated 1/19/2023, that may warrant withholding issuance of the final permit:

- NPDES - Violation of effluent limits in Part A of permit
- NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports
- NPDES - Failure to provide information or records required by the permit or otherwise needed to determine compliance

The permittee was sent a NOV on January 19, 2023. There is no record of a response to the NOV in DEP files. The NOV also required submittal of SOPs regarding pool water discharges as well as an evaluation of the WWTP by a 3<sup>rd</sup> party licensed professional engineer. Neither were found in DEP files.



WQM  
Modeling.pdf



TRC Calculation.pdfTMS PA0029874.pdf



DRBC Docket  
2006-013-4.pdf



StreamStats  
Outfall.pdf



StreamStats  
Downstream.pdf



Elevations RMI's.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.	<u>001</u>	Design Flow (MGD)	<u>0.075</u>
Latitude	<u>41° 13' 20"</u>	Longitude	<u>-75° 14' 29"</u>
Quad Name	<u>Skytop</u>	Quad Code	<u>0944</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Leavitt Branch (HQ-CWF, MF)</u>	Stream Code	<u>5041</u>
NHD Com ID	<u>26173974</u>	RMI	<u>2.1</u>
Drainage Area	<u>5.82 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.11</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.64</u>	Q <sub>7-10</sub> Basis	<u>Gage 01440400</u>
Elevation (ft)	<u>1283</u>	Slope (ft/ft)	<u>0.018</u>
Watershed No.	<u>1-E</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>

Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</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>Brodhead Creek Regional Water Authority</u>		
PWS Waters	<u>Brodhead Creek</u>	Flow at Intake (cfs)	<u>14</u>
PWS RMI	<u>~7.2 (eMap)</u>	Distance from Outfall (mi)	<u>~17.2</u>

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Skytop Lodge STP				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
4574402		2/15/1974		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary	Trickling Filter	Liquid Chlorine	0.075
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.075	-	-	Sludge Holding Tank	Hauled

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u> <b>Latitude</b> <u>41° 13' 20"</u> <b>Wastewater Description:</b> <u>Sewage Effluent</u>	<b>Design Flow (MGD)</b> <u>0.075</u> <b>Longitude</b> <u>-75° 14' 29"</u>
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**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 <sub>5</sub>	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	-	-
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	-	-
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)
	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)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX	-	-

**Water Quality-Based Limitations**

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model / Basis
Dissolved Oxygen	6.0	Instant. Minimum	Previous modeling
Total Dissolved Solids	1,000	Average Monthly	Previous DRBC requirement
	2,000	IMAX	
Ammonia-N (5/1 – 10/31)	9.0	Average Monthly	Previous modeling
	18.0	IMAX	
Ammonia-N (11/1 – 4/30)	20.0	Average Monthly	Previous DRBC requirement
	40.0	IMAX	
CBOD <sub>5</sub> Removal (%)	85.0	Min. Monthly Avg.	DRBC Docket 2006-013-4 requirement
Total Copper	0.058	Average Monthly	2023 Toxics Management Spreadsheet
	0.091	Daily Maximum	
	0.146	IMAX	

Comments: Total Copper limitations will come into effect 3 years after the permit effective date.

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Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	November 14, 2023
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	12-21-23