

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0036439  
 APS ID 613707  
 Authorization ID 1213516

**Applicant and Facility Information**

Applicant Name	<u>Commonwealth of Pennsylvania</u>	Facility Name	<u>White Haven Center</u>
Applicant Address	<u>827 Oley Valley Road</u> <u>White Haven, PA 18661</u>	Facility Address	<u>827 Oley Valley Road</u> <u>White Haven, PA 18661</u>
Applicant Contact	<u>Heathcliff Kalac</u>	Facility Contact	<u>Justin Radjavitch</u>
Applicant Phone	<u>(814) 432-0221</u>	Facility Phone	<u>(570) 443-4100</u>
Client ID	<u>51700</u>	Site ID	<u>236886</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Foster Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Luzerne</u>
Date Application Received	<u>December 21, 2017</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 11, 2018</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of existing NPDES permit.</u>		


**Summary of Review**

The applicant is requesting renewal of an NPDES permit to discharge up to 0.384 MGD of treated sewage to Linesville Creek, a high-quality cold water and migratory fish (HQ-CWF/MF) designated receiving stream in state water plan basin 02-A (Upper Lehigh 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.

All limitations and monitoring frequencies from the previously issued permit are carried over in this renewal. All monitoring frequencies are consistent with the recommended frequencies found in Table 6-3 of 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 discharge was modeled using DEP's WQM 7.0, Toxics Management Spreadsheet (TMS), and TRC Calculation Spreadsheet. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment). The low flow yield (LFY) of 0.16 cfs/mi<sup>2</sup> was obtained from the nearest stream gage with current data (Gage 01447800 – Lehigh River below Francis E. Walter Reservoir near White Haven, PA). The gage is located downstream of the Francis E. Walter dam and the low flow data appears to be a reasonable conservative estimate of low flow when compared to other gages in the watershed.

The White Haven Center closed and no longer houses residents. The facility WWTP still operates and discharges flows generated by maintenance staff. eDMR results show the facility currently discharges a fraction of the 0.384 MGD approved flow. For this renewal, the highest recorded flow since facility closure was used to model the discharge (0.0775 MGD – January 2023).

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	April 1, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	4-10-24

**Summary of Review**

More stringent limitations were not recommended by WQM 7.0 or the TRC spreadsheet. The TMS recommended the following:

- **Total Copper:** Monitoring requirements were recommended for Total Copper. The discharge concentration reported with the permit renewal application was 0.024 mg/L and the most stringent WQBEL is 0.060 mg/L. Quarterly monitoring/reporting is added to the permit for Total Copper.
- **Total Lead:** New limitations for Total Lead (0.021 mg/L monthly average, 0.033 mg/L daily maximum, 0.053 mg/L IMA) were recommended. The discharge concentration for Total Lead reported with the permit renewal application was < 0.020 mg/L. During the draft permit comment period, the permittee may reanalyze Total Lead using a quantitation limit (QL) that meets DEP's target QL. To remodel the discharge, at least three additional samples taken at least one week apart are required. If the permittee decides not to resample, then the limitations will come into effect one year after the permit effective date. Depending on the results of the resampling, one of the following scenarios will take place: a.) limitations and monitoring requirements will be removed from the permit, b.) limitations and monitoring requirements will remain in the permit, or c.) limitations will be replaced with monitoring/reporting requirements.
- **Total Zinc:** Monitoring requirements were recommended for Total Zinc. The discharge concentration reported with the permit renewal application was 0.205 mg/L and the most stringent WQBEL is 0.51 mg/L. Quarterly monitoring/reporting is added to the permit for Total Zinc.

Note: If the facility reopens or is transferred to another entity, a permit amendment application will be required (See Part C.I.F.) and the TMS and TRC Calculation Spreadsheet will be re-run using the design hydraulic capacity of 0.384 MGD and data collected during this permit term. The more stringent limitations that would come into effect are also attached below, assuming the same modeling inputs are utilized by the future permit application/amendment reviewer.

Quarterly monitoring/reporting for E. Coli is added to the permit as per current guidance.

Linesville Creek is part of the Lehigh River Watershed TMDL for acid mine drainage (AMD) affected segments. The TMDL includes requirements for the metals associated with AMD (aluminum, iron, manganese) and low pH. There is no wasteload allocation for this facility. Since there's no industrial users discharging to the WWTP, and the discharge is not expected to significantly contribute to the impairment, no monitoring requirements are included in this renewal for the TMDL metals of concern. Note: pH is already monitored at the WWTP.

There was no DRBC docket found for this facility.

Sewage sludge from the facility is hauled to the Greater Hazleton Joint Sewer Authority WWTP via Environmental Services.



WQM Modeling  
0.0775 MGD.pdf



WQM Modeling  
0.384 MGD.pdf



TRC Calculation  
0.0775 MGD.pdf



TRC Calculation  
0.384 MGD.pdf



TMS PA0036439  
0.0775 MGD.pdf



TMS PA0036439  
0.384 MGD.pdf



Watershed  
Information.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>0.384</u>
Latitude	<u>41° 3' 26"</u>	Longitude	<u>-75° 47' 31"</u>
Quad Name	<u>White Haven</u>	Quad Code	<u>1039</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Linesville Creek (HQ-CWF, MF)</u>	Stream Code	<u>4247</u>
NHD Com ID	<u>26281181</u>	RMI	<u>1.27</u>
Drainage Area	<u>4.27 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.16</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.68</u>	Q <sub>7-10</sub> Basis	<u>Gage 01447800</u>
Elevation (ft)	<u>1219</u>	Slope (ft/ft)	<u>0.022</u>
Watershed No.	<u>2-A</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>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>HCA Roan Filter Plant (as per SDW's NERO Surface Sources GIS map)</u>	
PWS Waters	<u>Lehigh River</u>	Flow at Intake (cfs)	<u>43 (using default LFY &amp; 430 mi<sup>2</sup> DA)</u>
PWS RMI	<u>63</u>	Distance from Outfall (mi)	<u>~10</u>

Changes Since Last Permit Issuance: The White Haven Center no longer houses residents.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> White Haven Center				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
4003401		6/18/2003		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Trickling Filter With Settling	Gas Chlorine	0.384
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.384	-	Not Overloaded	Anaerobic Digestion	Other WWTP