

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0034746  
 APS ID 767697  
 Authorization ID 1303696

**Applicant and Facility Information**

Applicant Name	<u>MHC Li'I Wolf LP</u>	Facility Name	<u>Li'I Wolf MHP</u>
Applicant Address	<u>2 North Riverside Plaza, Suite 800</u> <u>Chicago, IL 60606-2682</u>	Facility Address	<u>3411 Li'I Wolf Drive</u> <u>Orefield, PA 18069-2138</u>
Applicant Contact	<u>George Gudgeon, Senior Vice President</u>	Facility Contact	<u>Celine Geigel, Manager</u>
Applicant Phone	<u>(312) 279-1880</u>	Facility Phone	<u>(610) 398-1188</u>
Client ID	<u>292131</u>	Site ID	<u>245938</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>North Whitehall Township</u>
Connection Status	<u>-</u>	County	<u>Lehigh</u>
Date Application Received	<u>January 29, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 31, 2020</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 0.070 MGD of treated sewage into an Unnamed Tributary to Coplay Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 2-C (Lower 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. 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.

Limitations for pH and Fecal Coliform are technology-based and carried over from the previous permit.

Limitations for CBOD<sub>5</sub>, Total Suspended Solids (TSS), Ammonia-Nitrogen, Dissolved Oxygen (DO), Total Nitrogen, and Total Phosphorous are water quality-based and carried over from the previous permit.

The monitoring/reporting for Nitrate-Nitrite as N and Total Kjeldahl Nitrogen has been maintained in this permit.

WQM 7.0 modeling did not recommend stricter limits.

The Total Residual Chlorine (TRC) average monthly effluent limitation has been removed because UV Disinfection is used as the primary disinfection method. In the event the facility uses chlorine for cleaning purposes or as a back-up disinfection option, Total Residual Chlorine (TRC) should be sampled "daily when discharging" (see requirements under Part C.I.E). The TRC Calculation Spreadsheet recommends a stricter IMAX limitation of 0.12 mg/L.

The latest draft DRBC Preliminary Docket No. D-2015-005 CP-2 requires the addition of monitoring/reporting for 85% minimum CBOD<sub>5</sub> Percent Removal at the same monitoring frequency as CBOD<sub>5</sub>, a 2/month CBOD<sub>5</sub> monitoring requirement

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	September 10, 2020
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	9-25-20

### Summary of Review

for the Raw Sewage Influent, and quarterly monitoring/ reporting for Total Dissolved Solids with a 1,000 mg/L limit. The docket also requires the addition of load limits (in lbs/day) for Ammonia-Nitrogen and Total Phosphorous.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall and the drainage area at Outfall 001 is too small for USGS StreamStats to estimate accurate low flow values. Therefore, the default Low Flow Yield (LFY) of 0.1 cfs/mi<sup>2</sup> was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

As per the permittee's NPDES permit renewal application, sludge is hauled to the Greater Hazelton Joint Sewer Authority in Hazelton, PA by Liquid Motion, Inc.

The existing permit expires on August 31, 2020 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on July 1, 2019 a Compliance Evaluation was performed and on February 3, 2020 a Routine/Partial Inspection was performed.



Watershed Info - Lil  
Wolf MHP.pdf



TRC - Lil Wolf  
MHP.pdf



WQM 7.0 - Lil  
Wolf.pdf



DRBC Draft Docket  
2015-005 CP-2.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)	0.07
Latitude	40° 39' 5.37"	Longitude	-75° 35' 13.22"
Quad Name	Cementon	Quad Code	1341
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Coplay Creek (CWF, MF)	Stream Code	3648
NHD Com ID	26293007	RMI	0.4100
Drainage Area	0.2 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.1
Q <sub>7-10</sub> Flow (cfs)	0.02	Q <sub>7-10</sub> Basis	State-wide default
Elevation (ft)	485.5	Slope (ft/ft)	-
Watershed No.	2-C	Chapter 93 Class.	CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	SILTATION, TOTAL SUSPENDED SOLIDS (TSS)		
Source(s) of Impairment	MUNICIPAL POINT SOURCE DISCHARGES, RURAL (RESIDENTIAL AREAS)		
TMDL Status	-	Name	-
Nearest Downstream Public Water Supply Intake	LCA Allentown Division		
PWS Waters	Lehigh River	Flow at Intake (cfs)	-
PWS RMI	17.2	Distance from Outfall (mi)	~ 13.2

Treatment Facility Summary				
Treatment Facility Name: Li'i Wolf MHP				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
3916401	6/21/2016			
3916401 A-1	4/4/2018			
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary	Activated Sludge with Solids Removal	Ultraviolet	0.0723 (2016-2018)
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.07	140	Not Overloaded	Dewatering	Hauled

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.07</u>
<b>Latitude</b> <u>40° 39' 2.40"</u>	<b>Longitude</b> <u>-75° 35' 14.00"</u>
<b>Wastewater Description:</b> <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
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)

**Water Quality-Based Limitations**

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model	
CBOD <sub>5</sub>	10.0	Average Monthly	Previous Modeling	
	20.0	IMAX		
Total Suspended Solids	10.0	Average Monthly		
	20.0	IMAX		
Dissolved Oxygen	6.0	Minimum		
Ammonia-Nitrogen May 1 - Sep 30	1.09	Average Monthly		
	2.18	IMAX		
Ammonia-Nitrogen Oct 1 - Apr 30	3.27	Average Monthly		
	6.54	IMAX		
Total Nitrogen	5.0	Average Monthly		
	10.0	IMAX		
Total Phosphorus May 1 - Sep 30	2.0	Average Monthly		
	4.0	IMAX		
Total Phosphorus Oct 1 - Apr 30	4.0	Average Monthly		
	8.0	IMAX		
Total Dissolved Solids	1,000	Average Quarterly	DRBC Docket D-2015-005 CP-2	
	2,000	IMAX		
Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> ) Raw Sewage Influent	Report	Average Monthly		
CBOD <sub>20</sub> Minimum % Removal (%)	85%	Minimum Monthly Average		
Total Residual Chlorine (TRC)	0.12	IMAX		TRC Calculation Spreadsheet

**Anti-Backsliding**

No limitations were made less stringent.