

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SFTF

## NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0261360  
APS ID 1018130  
Authorization ID 1466852

### Applicant, Facility and Project Information

Applicant Name	<u>Hess Leasing</u>	Facility Name	<u>Mountain View MHP</u>
Applicant Address	<u>116b Blantz Road</u> <u>Lititz, PA 17543-9573</u>	Facility Address	<u>423 W 28th Division Highway</u> <u>Lititz, PA 17543</u>
Applicant Contact	<u>Stuart Hess</u>	Facility Contact	<u>Stuart Hess</u>
Applicant Phone	<u>(717) 575-5955</u>	Facility Phone	<u>(717) 575-5955</u>
Client ID	<u>356963</u>	Site ID	<u>722489</u>
SIC Code	<u>6515</u>	Municipality	<u>Elizabeth Township</u>
SIC Description	<u>Fin, Ins &amp; Real Est - Mobile Home Site Operators</u>	County	<u>Lancaster</u>
Date Application Received	<u>January 2, 2024</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>January 3, 2024</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES Renewal.</u>		

### Summary of Review

Hess Leasing has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its National Pollutant Discharge Elimination System (NPDES) permit. The existing permit was issued on June 27, 2019, and became effective on July 1, 2019, authorizing discharge of treated sewage from the Mountain View MHP WWTP located in Elizabethtown Township, Lancaster County into Unnamed Tributary (UNT) to Hammer Creek. The existing permit expiration date was June 30, 2024, and the permit has been administratively extended since that time. The permit was transferred on September 10, 2020 from Martin Leasing Inc. to Hess Leasing Inc. A DEP issued amendment was issued on October 5, 2021 to correct the sampling frequencies in the transfer.

Per the previous fact sheet, this facility was constructed to replace a malfunctioning community on-lot septic system at the Mountain View MHP. The original permit was issued on November 25, 2009 to authorize the discharge from the new small flow treatment facility (SFTF). The SFTF has a design flow of 0.00195 MGD and consists of three (3) septic tanks, a dosing tank, a subsurface sand filter, a chlorinator, chlorine contact tank, and de-chlorinator.

No changes have been made in this permit renewal.

Supplemental information is attached to the end of this fact sheet.

#### 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

Approve	Deny	Signatures	Date
X		Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	October 1, 2024
X		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	October 15, 2024



Summary of Review

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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.002
Latitude	40° 13' 34.94"	Longitude	76° 18' 46.07"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Hammer Creek (HQ-CWF, MF)	Stream Code	7671
NHD Com ID	57461831	RMI	1.03
Drainage Area	0.18 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.0039
Q <sub>7-10</sub> Flow (cfs)	0.000694	Q <sub>7-10</sub> Basis	USGS PA StreamStats
Elevation (ft)	598	Slope (ft/ft)	
Watershed No.	7-J	Chapter 93 Class.	HQ-CWF, MF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	N/A	Exceptions to Criteria	N/A
Assessment Status	Impaired		
Cause(s) of Impairment	Habitat Alterations, Siltation, Pathogens		
Source(s) of Impairment	Habitat Modification – Other Than Hydromodification, Agriculture, Source Unknown		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Lancaster City Municipal Water Authority		
PWS Waters	Conestoga River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	26

Changes Since Last Permit Issuance: None

Other Comments: USGS PA StreamStats provided a drainage area of 0.18 mi<sup>2</sup> and a Q<sub>7-10</sub> of 0.000694 cfs.



Compliance History	
<b>Summary of DMRs:</b>	The application included results for four samples. CBOD <sub>5</sub> , TSS, and TRC were all within permitted limits. There was one sample result for fecal coliform that exceeded the permit limit; the other three were acceptable.
<b>Summary of Inspections:</b>	9/15/2021: A routine inspection was conducted. The septic tank effluent filter had a light layer of scum. The outfall pipe was observed, and a clear discharge was visible. The receiving stream was free of solids, debris and foam accumulations.

Other Comments: There are currently no open violations for the Applicant.



**Existing Effluent Limitations and Monitoring Requirements**

The table below summarizes the effluent limitations and monitoring requirements implemented in the existing NPDES permit.

**Outfall 001**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/year	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.02	XXX	0.04	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	2/year	Grab
Total Suspended Solids (TSS)	XXX	XXX	XXX	10.0	XXX	20	2/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	2/year	Grab
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	15.0	XXX	30	2/year	Grab
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	5.0	XXX	10	2/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None



**Development of Effluent Limitations****Technology-Based Limitations**

The facility is regulated by standards found in 40 CFR § 133.102 and 25 Pa. Code § 92a.47(a). DEP also requires technology based requirements for SFTFs as specified in the Small Flow Treatment Facilities Manual (362-0300-002) and the SOP for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003). The required technology based limits and monitoring frequencies found in the SOP for SFTFs are shown in the table below.

Parameter	Avg Mo	IMAX	Sample Type	Frequency
Flow (GPD)	Report	XXX	Estimate	1/month
BOD <sub>5</sub> (mg/L)	10	20	Grab	1/month
TSS (mg/L)	10	20	Grab	1/month
TRC (mg/L)	Use TRC Spreadsheet to determine WQBEL for 0.02 mg/L AML for SFTFs		Grab	1/month
Fecal Coliform (No/100 ml)	200 Geometric Mean		Grab	1/month

The existing permit limits are consistent with this table, although the existing permit uses CBOD<sub>5</sub> rather than BOD<sub>5</sub>. The monitoring frequencies are less than what is show in the table; other than for flow and TRC, the monitoring frequency is 2/year. The facility has not had issues with effluent violations, so the reduced sampling frequency will remain in the renewal. Ammonia-Nitrogen limits are also included in the existing permit. These limits are based upon the performance requirements included in the Antidegradation Implementation Guidance (391-0300-002), which was used due to the HQ classification of the receiving stream.

**Chesapeake Bay Total Maximum Daily Load (TMDL)**

Facilities that are designed based on a flow of less than 2,000 gpd are exempt from the Chesapeake Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monitoring.

**Anti-Degradation Requirements**

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. Exceptional Value Waters are impacted by this discharge. This facility discharges to a High Quality stream. The permit limits reflect the performance requirements of the Antidegradation Implementation Guidance.

**303d Listed Streams**

The discharge is located on a stream segment that is listed as impaired due to habitat alterations from habitat modification – other than hydromodification, siltation from agriculture, and pathogens from an unknown source.

**Class A Wild Trout Fisheries**

No Class A Wild Trout Fisheries are impacted by this discharge.

**Anti-Backsliding**

Pursuant to 40 CFR § 122.44(l)(1), all proposed permit requirements addressed in this fact sheet are at least as stringent as the requirements implemented in the existing NPDES permit unless any exceptions addressed by DEP in this fact sheet.



**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/year	Grab
TRC	XXX	XXX	XXX	0.02 Avg Mo	XXX	0.04	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	2/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	2/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	2/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	15.0 Avg Mo	XXX	30	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5.0 Avg Mo	XXX	10	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None



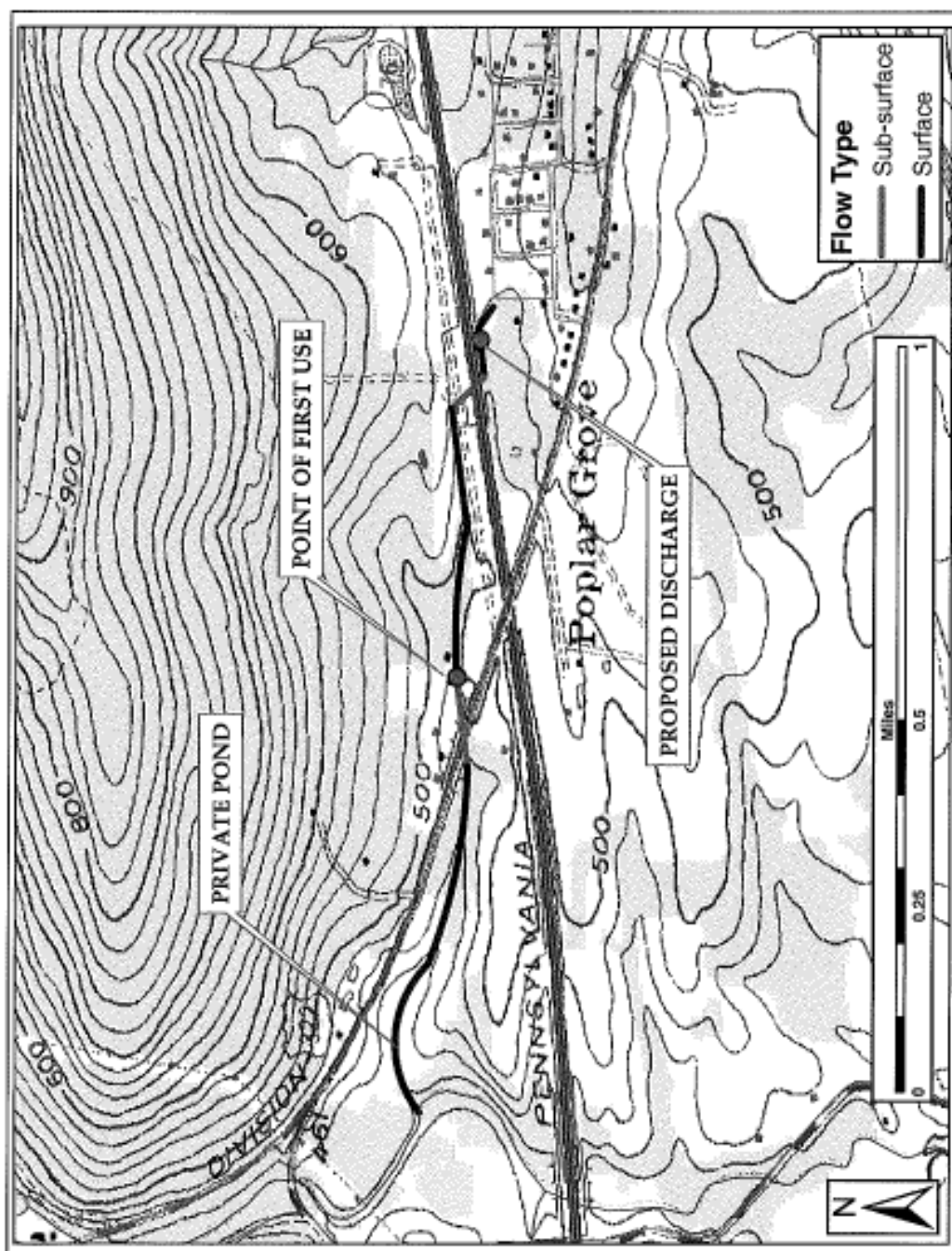
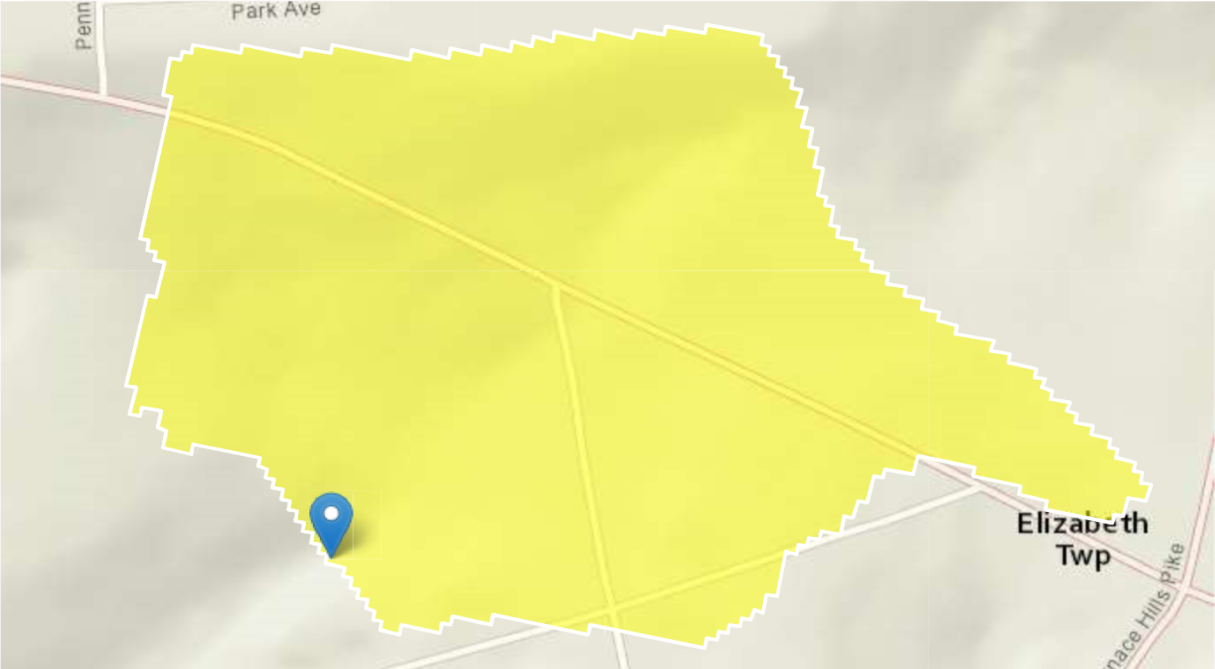


Figure 1. A map from the Lititz USGS quad showing the proposed discharge and the Point of First Use.



Mountain View MHP PA0261360 Outfall 001

Region ID: PA  
Workspace ID: PA20240930145839377000  
Clicked Point (Latitude, Longitude): 40.22630, -76.31284  
Time: 2024-09-30 10:59:00 -0400



 Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	3.205	degrees
DRNAREA	Area that drains to a point on a stream	0.18	square miles
ROCKDEP	Depth to rock	3	feet
URBAN	Percentage of basin with urban development	1.6942	percent



## ➤ Low-Flow Statistics

### Low-Flow Statistics Parameters [Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.18	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	3.205	degrees	1.7	6.4
ROCKDEP	Depth to Rock	3	feet	4.13	5.21
URBAN	Percent Urban	1.6942	percent	0	89

### Low-Flow Statistics Disclaimers [Low Flow Region 1]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

### Low-Flow Statistics Flow Report [Low Flow Region 1]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00314	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.00597	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.000694	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.00151	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.00415	ft <sup>3</sup> /s

#### Low-Flow Statistics Citations

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

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Application Version: 4.24.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1