

Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

**PA0041491**

APS ID

**488448**

Authorization ID

**1471496**

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

**Applicant and Facility Information**

Applicant Name	<b>Berks Properties Inc.</b>	Facility Name	<b>Mountain Village MHP</b>
Applicant Address	3613 Seisholtzville Road	Facility Address	Seisholtzville Road
	Hereford, PA 18056-1542		Macungie, PA 18062
Applicant Contact	David Rittenhouse	Facility Contact	Jim Groff
Applicant Phone	(610) 650-8074	Facility Phone	(267) 446-0017
Client ID	180156	Site ID	447400
Ch 94 Load Status	Not Overloaded	Municipality	Longswamp Township
Connection Status	Self-Imposed Connection Prohibition	County	Berks
Date Application Received	January 30, 2024	EPA Waived?	No
Date Application Accepted	February 26, 2024	If No, Reason	DEP Discretion
Purpose of Application	NPDES Permit Renewal.		

**Summary of Review**

Berks Properties Inc. has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on July 11, 2019, and became effective on August 1, 2019. The permit expired on July 31, 2024, but the terms and conditions of the permit have been extended since that time.

Mountain Village MHP is operated by Berks Properties, Inc. and consists of approximately 260 single-family homes connected via a collection system, with no businesses or restaurants. All mobile homes convey wastewater to the influent pump station, which pumps the flow to the Wastewater Treatment Plant (WWTP).

The average annual design flow & hydraulic design capacity of 0.064 MGD, and the organic loading capacity is 250 lbs BOD<sub>5</sub>/day.

Sludge use and disposal description and location(s): N/A because sludge hauled is by facility's contractors.

**Delaware River Basin Commission**

The discharge is within Delaware River basin and is therefore subject to Delaware River Basin Commission (DRBC) requirements. While the design flow falls within "reviewable projects" by DRBC, no docket was indicated on DRBC's interactive online docket map. Either a docket does not exist, or it predates the online map. DRBC will be copied on the draft permit and a copy of the application forwarded to them.

**Changes from the previous permit:** E. Coli monitoring and report requirements will add to the proposed permit.

Based on the review outlined in this fact sheet, it is recommended that the permit be drafted. A public notice of the draft permit will be published in the *Pennsylvania Bulletin* for public comments for 30 days.

Approve	Deny	Signatures	Date
X		Hilaryle Hilary H. Le / Environmental Engineering Specialist	January 16, 2025
X		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	January 27, 2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.064
Latitude	40° 28' 14.0"	Longitude	-75° 36' 25.0"
Quad Name	East Greenville	Quad Code	1541
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Perkiomen Creek (HQ-CWF, MF)	Stream Code	01501
NHD Com ID	25971488	RMI	1.608
Drainage Area	0.16 mi. <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	See comments below
Q <sub>7-10</sub> Flow (cfs)	See comments below	Q <sub>7-10</sub> Basis	USGS Gage No. 01472198
Elevation (ft)	870.0	Slope (ft/ft)	
Watershed No.	3-E	Chapter 93 Class.	HQ-CWF, MF
Existing Use	None	Existing Use Qualifier	None
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	Final	Name	Green Lane Reservoir
Nearest Downstream Public Water Supply Intake	Philadelphia Suburban Water Company		
PWS Waters	Perkiomen Creek	Flow at Intake (cfs)	
PWS RMI	19.7 miles	Distance from Outfall (mi)	Approximate 17.7 miles

Changes Since Last Permit Issuance:

*Drainage Area*

The discharge is to Unnamed Tributary 01501 to Perkiomen Creek at RMI 1.608. A drainage area upstream of the point of discharge is estimated to be 0.16 sq.mi., according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

*Streamflow*

USGS StreamStats produced no Q<sub>7-10</sub> at the point of discharge. However, the estimated drainage area used in regression equations to calculate this Q<sub>7-10</sub> is lower than the minimum required value to accurately calculate the Q<sub>7-10</sub>. As a result, USGS gage station No. 01472198 on Perkiomen Creek at East Greenville, PA is used to calculate the Q<sub>7-10</sub> as follow:

$$\begin{aligned}
 \text{Low Flow Yield} &= Q_{7-10\text{gage}} / \text{Drainage Area}_{\text{gage}} = 5.06 \text{ cfs} / 37.6 \text{ sq.mi} = 0.135 \text{ cfs/sq.mi.} \\
 Q_{7-10\text{site}} &= \text{Low Flow Yield} * \text{Drainage Area}_{\text{site}} = 0.135 \text{ cfs/sq.mi} * 0.16 \text{ sq.mi} = 0.02 \text{ cfs} \\
 Q_{30-10} &= 1.36 * 0.02 \text{ cfs} \approx 0.027 \text{ cfs} \\
 Q_{1-10} &= 0.64 * 0.02 \text{ cfs} \approx 0.013 \text{ cfs}
 \end{aligned}$$

*Unnamed Tributary to Perkiomen Creek*

Under 25 Pa Code §93.9f, the entire basin of Perkiomen Creek from source to SR 1010 Bridge at Hereford is designated as High Quality-Cold Water and Migratory fishes. There are no existing uses for this receiving stream. The discharge is located within a stream segment listed as attaining use(s). However, pursuant to 25 Pa Code §93.4(c), all permit requirements for the upcoming permit renewal will be developed to ensure that the water quality of this receiving stream is maintained and protected.

*Public Water Supply Intake*

The fact sheet developed during the last permit renewal indicates that the nearest downstream water supply intake is Philadelphia Suburban Water Company located on Perkiomen Creek approximately 17.7 miles. Given its distance, the discharge is not expected to affect the water supply.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Mountain Village M H P				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary		Hypochlorite	0.064
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.064		Not Overloaded		

Changes Since Last Permit Issuance:

Other Comments:

The treatment process consisting of influent lift station, influent grinders (2), equalization tank, aeration tank, clarifiers (2), chlorine contact tank, dechlorination tank, and outfall to Unnamed Tributary of Perkiomen Creek.

Sodium Hypochlorite is used for disinfection, Sodium bisulfite is used for dechlorination, Aluminum Sulfate is used for phosphorous removal and soda ash is used for pH control.

A sludge holding tank is available. From this tank, sludge is hauled off site via a local hauler to another WWTP for ultimate disposal/treatment.

Compliance History	
<b>Summary of DMRs:</b>	A summary of past 12-month DMR data is presented on the next page.
<b>Summary of Inspections:</b>	<b>11/07/24:</b> Mr. Aponte, DEP WQS, conducted a compliance evaluation inspection. There were no violations noted during inspection. The field test results were within permit limits. Recommendations were: 1. Provide additional information when calibrating DO, pH, and TRC meters, including the calibration results, slope, and temperature, as applicable. 2. Please document any additional process control data that is collected at the facility, including but not limited to 30-minute settleability tests or sludge judging. 3. Please initial the daily journal each day to verify who was on-site and completing daily results. 4. Please also update the available operator report in the event that Mr. Nick Esposito begins operating at the facility. 5. Consider adding an alarm to the influent pump station to alert the facility of a high-level alarm, or power failure. 6. Please continue to keep the repair and maintenance journal up to date and on-site. 7. Perform % Total Solids tests on the facility's hauled-out sludge at least annually. With this data, please complete the Biosolids Supplemental Form by including the % TS and calculating the estimated dry tons hauled out from the facility each month. Please also complete the Biosolids Supplemental Form by providing the following data: the municipality, the county, the DEP permit number, the type of disposal/use, and the date the NPDES permit expires. 8. Please also ensure that copies of the sludge hauling manifests are retained at the WWTP for a minimum of five years, as this is a requirement of the NPDES permit. 9. Consider collecting flow proportioned effluent composite samples.
<b>Other comments:</b>	There are currently no open violations associated with the permittee or the facility.

Other Comments:

Compliance History

DMR Data for Outfall 001 (from December 1, 2023 to November 30, 2024)

Parameter	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23
Flow (MGD) Average Monthly	0.0025	0.0234	0.0253	0.0342	0.0322	0.0265	0.0288	0.0507	0.0465	0.03	0.0505	0.0396
Flow (MGD) Daily Maximum	0.0391	0.0305	0.0345	0.1224	0.0606	0.043	0.0661	0.1725	0.1171	0.0567	0.1916	0.1404
pH (S.U.) Instantaneous Minimum	6.9	6.5	6.2	6.4	6.8	6.3	6.2	6.2	6.5	6.1	6.2	6.6
pH (S.U.) Instantaneous Maximum	8.1	7.7	7.7	7.7	7.8	7.5	7.4	7.5	7.7	7.3	7.9	7.9
DO (mg/L) Instantaneous Minimum	6.7	6.6	6.8	6.4	6.4	6.4	6.9	6.8	6.9	7.0	7.0	7.1
TRC (mg/L) Average Monthly	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TRC (mg/L) Instantaneous Maximum	0.05	0.04	0.04	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04
CBOD5 (mg/L) Average Monthly	4.5	2.0	2.0	< 2.0	< 2.0	2.0	< 2.0	3.3	4.0	4.5	3.4	8.0
TSS (mg/L) Average Monthly	1.5	< 1.0	3.5	13.0	2.5	3.0	1.0	4.3	8.3	11.0	14.4	31.0
Total Dissolved Solids (lbs/day) Daily Maximum			195.5			165			233			179
Total Dissolved Solids (mg/L) Daily Maximum			728			686			554			780
Fecal Coliform (No./100 ml) Geometric Mean	8.9	5	1	10.2	6.1	19.5	1	3.9	27.2	< 1.0	3	35
Ammonia (mg/L) Average Monthly	0.1	0.03	0.1	0.9	0.1	0.1	0.1	1.9	2.9	1.8	2.4	2.1
Total Phosphorus (lbs/day) Average Monthly	0.02	0.02	0.02	0.06	0.03	0.02	0.01	0.04	0.06	0.05	0.16	0.20
Total Phosphorus (mg/L) Average Monthly	0.1	0.1	0.1	0.2	0.1	0.1	0.04	0.1	0.15	0.2	0.37	0.6

Existing Effluent Limitations and Monitoring Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Minimum	XXX	9.0 Daily Minimum	XXX	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Daily Minimum	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.02	XXX	0.05	1/day	Grab
CBOD <sub>5</sub>	XXX	XXX	XXX	10	XXX	20	2/month	8-hr comp
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	2/month	8-hr comp
Fecal Coliform (CFU/100 ml) May 1 – Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	2/month	Grab
Fecal Coliform (CFU/100 ml) Oct 1 – Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	XXX	2/month	Grab
Ammonia-Nitrogen May 1 – Oct 31	XXX	XXX	XXX	1.5	XXX	3.0	2/month	8-hr comp
Ammonia-Nitrogen Nov 1 – Apr 30	XXX	XXX	XXX	4.5	XXX	9.0	2/month	8-hr comp
Total Phosphorus	0.27	XXX	XXX	0.5	XXX	1.0	2/month	8-hr comp
Total Dissolved Solids	XXX	Report Daily Max	XXX	XXX	Report Daily Max	XXX	1/quarter	8-hr comp

**Development of Effluent Limitations**

Outfall No. 001  
Latitude 40° 28' 14.00"  
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.064  
Longitude -75° 36' 25.00"

The discharge is to Unnamed Tributary of Perkiomen Creek. Under 25 Pa Code §93.9f, the entire basin of Perkiomen Creek from source to SR 1010 Bridge at Hereford is designated as High Quality-Cold Water and Migratory fishes. It is noteworthy that DEP previously recognized this stream as Trout Stocking Fishes and developed the requirements based on TSF. This is presumably because the High-Quality stream classification of this stream (or the Perkiomen Creek basin) has been determined as part of a September 28, 2002, final rulemaking and this facility was authorized to discharge treated sewage since 1998.

**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	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: [REDACTED]

**Water Quality-Based Limitations**

**Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>):**

The attached computer printout of the WQM 7.0 stream model (ver. 1.1) indicates that a monthly average limit of 10.0 mg/L, or secondary treatment, is adequate to protect the water quality of the stream. Therefore, the existing summer permit 10.0 mg/L as AML, & 20.0 mg/L as IMAX are same and will remain in the proposed permit. Recent DMRs and inspection reports show that the facility has typically been achieving concentrations below this limit.

**Dissolved Oxygen (D.O.):**

The minimum D.O. of 5.0 mg/L is required per 25 Pa. Code § 93.7. It is recommended that this limit be maintained in the proposed permit to ensure the protection of water quality standards.

**Ammonia (NH<sub>3</sub>-N):**

NH<sub>3</sub>N calculations are based on the Department's Implementation Guidance of Section 93.7 Ammonia Criteria, dated 11/4/97 (ID No. 391-2000-013). The following data is necessary to determine the in-stream NH<sub>3</sub>-N criteria used in the attached WQM 7.0 computer model of the stream:

*	Discharge pH	=	7.0	(Default)
*	Discharge Temperature	=	25°C	(Default)
*	Stream pH	=	7.0	(Default)
*	Stream Temperature	=	20°C	(Default)
*	Background NH <sub>3</sub> -N	=	0 mg/L	(Default)

Analysis Results WQM 7.0

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
1.61	Mt. Village MHP	PA0041491	0.0640
Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	10	3	
NH3-N	1.5		
Dissolved Oxygen		5	

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Regarding NH<sub>3</sub>-N limits, the attached computer printout of the WQM 7.0 stream model (version 1.1) indicates that a limit of 1.5 mg/L as a monthly average and 3.0 mg/L instantaneous maximum (IMAX) are necessary to protect the aquatic life from toxicity effects at the point of discharge. Therefore, the existing summer limits of 1.5 mg/L monthly average & 3.0 mg/L IMAX are same and will remain in the proposed permit. The existing winter average monthly limit of 4.5 mg/L & IMAX limit of 9.0 mg/L will remain in place. Recent DMRs and inspection reports show that the facility has been consistently achieving these limits.

**pH:**

The effluent discharge pH should remain above 6.0 and below 9.0 standard units according to 25 Pa. Code § 95.2(1).

**Total Suspended Solids (TSS):**

The existing technology-based limits of 30.0 mg/L average monthly, and 60.0 mg/L IMAX will remain in the proposed permit based on the minimum level of effluent quality attainable by secondary treatment based on 25 Pa. Code § 92a.47. Recent DMRs and inspection reports show that the facility has been consistently achieving these limits.

**Fecal Coliform:**

The recent coliform guidance in 25 Pa. Code § 92a.47.(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean and § 92a.47.(a)(5) requires a winter limit of 2,000/100ml as a geometric mean.

**E. Coli:**

As recommended by DEP's SOP No. BCW-PMT-033, version 2.0 revised February 5, 2024, a routine monitoring for E. Coli will be included in the proposed permit under 25 Pa. Code § 92a.61. This requirement applies to all sewage dischargers greater than 0.002 MGD in their new and reissued permits. A monitoring frequency of 1/quarter will be included in the permit to be consistent with the recommendation from this SOP.

**Total Phosphorus:**

The existing permit average monthly TP concentration of 0.5 mg/L, and 1.0 mg/L IMAX will remain in the proposed permit. Mass average monthly is calculated and also in the proposed permit.

Average monthly mass limit: 0.5 mg/L x 0.064 MGD x 8.34 = 0.267 (0.27) lbs/day

**Toxics:**

The application submitted for this permit renewal did not require sampling of toxics pollutants. According to the application, there is no commercial establishment/business within the service area. Therefore, there is no toxics pollutants of concern from this discharge.

**Stormwater:**

There is no known stormwater outfall associated with this facility.

## Mountain Village MHP

## Chesapeake Bay Total Maximum Daily Load:

The discharge is not located within the Chesapeake Bay watershed. No Chesapeake Bay TMDL has therefore been taken into consideration.

## Total Residual Chlorine (TRC):

The attached computer printout utilizes the equations and calculations as presented in the Department's May 1, 2003 Implementation Guidance for TRC (ID No. 391-2000-015) for developing chlorine limitations. The attached printout indicates that a water quality limit of 0.038 mg/L monthly average and 0.125 mg/L IMAX would be needed to prevent toxicity concerns. Therefore, the existing TRC limit of 0.02 mg/L monthly average and 0.05 mg/L IMAX are more stringent and will remain in the proposed permit.

TRC EVALUATION									
Input appropriate values in A3:A9 and D3:D9									
0.02	= Q stream (cfs)		0.5	= CV Daily					
0.064	= Q discharge (MGD)		0.5	= CV Hourly					
30	= no. samples		1	= AFC_Partial Mix Factor					
0.3	= Chlorine Demand of Stream		1	= CFC_Partial Mix Factor					
0	= Chlorine Demand of Discharge		15	= AFC_Criteria Compliance Time (min)					
0.5	= BAT/BPJ Value		720	= CFC_Criteria Compliance Time (min)					
0	= % Factor of Safety (FOS)			=Decay Coefficient (K)					
Source	Reference	AFC Calculations	Reference	CFC Calculations					
TRC	1.3.2.iii	WLA_afc = 0.083	1.3.2.iii	WLA_cfc = 0.074					
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373	5.1c	LTAMULT_cfc = 0.581					
PENTOXSD TRG	5.1b	LTA_afc = 0.031	5.1d	LTA_cfc = 0.043					
Source	Effluent Limit Calculations								
PENTOXSD TRG	5.1f	AML MULT = 1.231							
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.038							
		INST MAX LIMIT (mg/l) = 0.125							
AFC									
WLA_afc	$(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))... + Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)$								
LTAMULT_afc	$EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)$								
LTA_afc	wla_afc*LTAMULT_afc								
WLA_cfc	$(.011/e(-k*CFC_tc)) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))... + Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)$								
LTAMULT_cfc	$EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)$								
LTA_cfc	wla_cfc*LTAMULT_cfc								
AML MULT	$EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))$								
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)								
INST MAX LIMIT	$1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)$								

The current quantitation limit (QL) for TRC accepted by DEP is 0.02 mg/L. When the facility is subject to WQBELs for TRC that are below this QL, the permit generally includes, along with WQBELs in Part A, the following standard Part C condition:

## TRC EFFLUENT LIMITATIONS BELOW QUANTITATION LIMITS

- The calculated limits for Total Residual Chlorine (TRC) as specified in Part A of this permit are the limits necessary to comply with state water quality standards. These effluent limits are lower than the Quantitation Limit (QL), as defined in 25 Pa. Code § 252.1, of the most sensitive existing EPA-approved (40 CFR Part 136) test method or other DEP-approved method. If the sensitivity of the specified method improves or a more sensitive test method becomes available, DEP may modify the permit to require use of the more sensitive method.
- TRC shall be analyzed using one of the following test methods below, or an approved equivalent, to achieve a QL of 0.02 mg/l or less:
  - EPA 330.5 Spectrophotometric, DPD (SM 4500-CI G, DPD Colorimetric Method)
  - EPA 330.4 Titrimetric, DPD-FAS (SM 4500-CI F, DPD Ferrous Titrimetric Method)
 For the purpose of compliance, a statistical value reported on the DMR that is less than the QL (i.e., "non-detect") will be considered to be in compliance.
- The permittee may develop a site-specific alternate MDL pursuant to the procedure contained in 40 CFR Part 136 Appendix B. DEP should be contacted for guidance before initiating this procedure.
- The permittee shall manage non-detect values and report statistical results to DEP in accordance with published DMR guidance (3800-BK-DEP3047 and 3800-FS-DEP4262). Where a mixed data set exists containing non-detect results and "detected" values (i.e., results greater than or equal to the QL), the QL shall be used for non-detect results to compute average statistical results.

**Mountain Village MHP****Green Lane Reservoir Total Maximum Daily Load (TMDL):**

The discharge is to an unnamed tributary of Perkiomen Creek and ultimately to Green Lane Reservoir, a 814-acre lake in Montgomery County that resides within Green Lane Reservoir Park which is a popular area for swimming, fishing, boating, hiking and horseback riding. Green Lane Reservoir is listed as impacted by organic enrichment/low dissolved oxygen as a result of agricultural activities. In 2003, US EPA has approved the total maximum daily load to address impairments identified within the Green Lane Reservoir watershed, *reference this factsheet, pages 16-17*. This TMDL in fact addresses Total Phosphorus wasteload allocations (WLAs) for Mountain Village Mobile Home Park as follows:

<b>Table 4-5 Main Branch Perkiomen Subwatershed (page 4-12)</b>					
<b>Point Source</b>	<b>NPDES Permit No.</b>	<b>Design Flow (MGD)</b>	<b>Total Phosphorus concentration (mg/L)</b>	<b>WLA (lbs/day)</b>	<b>WLA (lbs/month)</b>
Mountain Village Mobile Home Park	PA0041491	0.064	0.5	0.27	8

As a result, the existing permit contains the TP concentration effluent limit of 0.5 mg/L and average monthly mass effluent limit of 0.27 lbs/day in accordance with 40 CFR §122.44(d)(1)(vii)(B). The fact sheet prepared in 2009 indicates that the cumulative monthly mass effluent limit (8.0 lbs/month) would be redundant if the average monthly mass effluent limit is included in the permit. This was also discussed with US EPA at that time. Consequently, the aforementioned existing effluent limits will remain in the permit and the cumulative monthly WLA will not be included in the permit once again.

**Additional Considerations***Flow Monitoring*

The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii).

*Monitoring Frequencies and Sample Types*

All minimum monitoring frequencies and sample types remain unchanged in the draft permit.

*Delaware River Basin Commission Requirements*

The discharge is located within the Delaware River basin; as a result, the facility is subject to water quality regulations established by the Delaware River Basin Commission. It is unclear whether DRBC previously issued the docket for this facility but because the discharge is greater than 0.05 MGD, the draft permit should be reviewed by DRBC. Total Dissolved Solids is one of major concerns identified within the Delaware River basin; as a result, most of facilities located within this basin are required to monitor for TDS or have numerical effluent limits in their permit. Since the facility has no record of TDS effluent results, the requirement to monitor for TDS is recommended for the upcoming permit renewal for further evaluation. A quarterly monitoring requirement will be sufficient to gather ample data for further evaluation. Once again, the draft permit will be sent to DRBC for their review and comment.

*Anti-Degradation Requirements*

All effluent limitations and monitoring requirements have been developed to ensure that the water quality of this stream be maintained and protected as per 25 Pa Code §93.4a(c).

*Anti-Backsliding Requirements*

Unless stated otherwise in this fact sheet, all permit requirements proposed in this fact sheet are at least as stringent as existing permit requirements in accordance with 40 CFR §122.44(l)(1).

The following data were used in the attached computer model (WQM 7.0) of the stream:

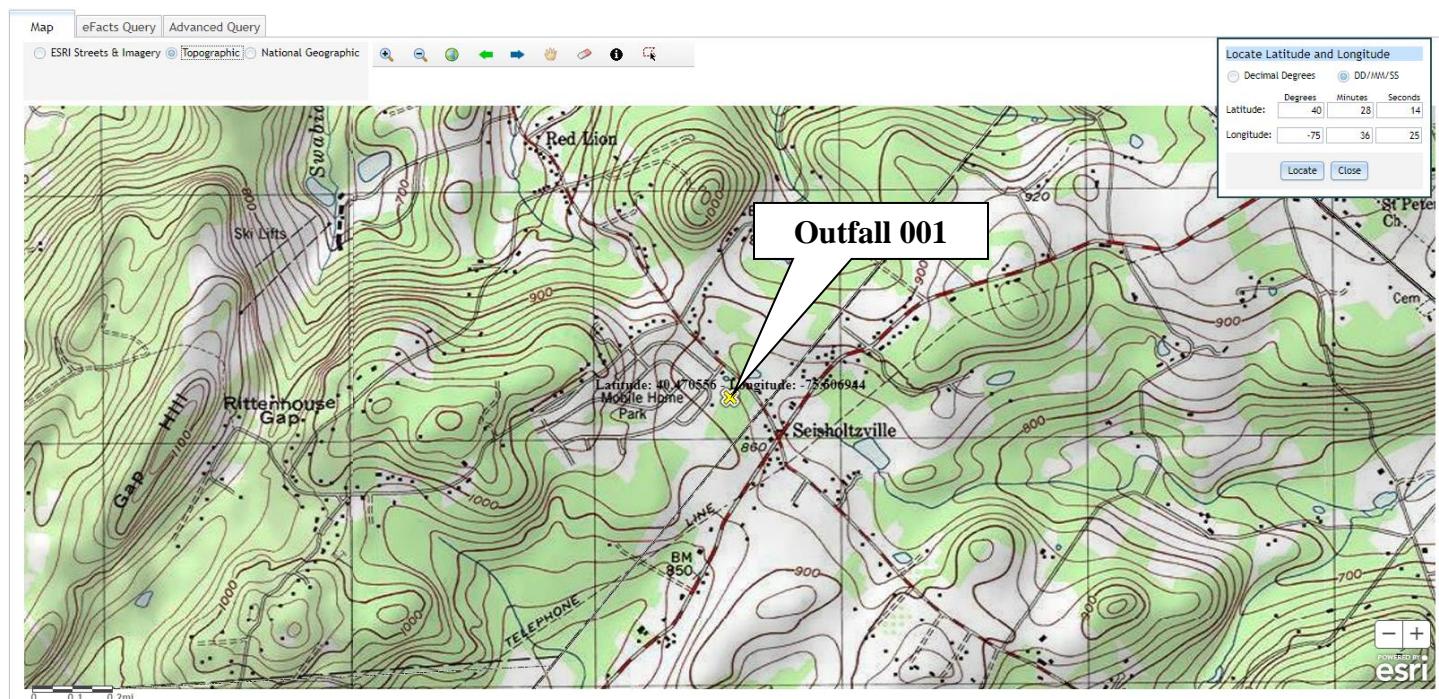
*	Discharge pH	=	7.0	(Default)
*	Discharge Temperature	=	25°C	(Default)
*	Stream pH	=	7.0	(Default)
*	Stream Temperature	=	20°C	(Default)
*	Background NH <sub>3</sub> -N	=	0 mg/L	(Default)

Node 1: Outfall 001 Trib. 01501 to Perkiomen Creek (1501)

Elevation: 870.0 ft (USGS National Map Viewer)  
 Drainage Area: 0.16 mi<sup>2</sup> (USGS PA StreamStats)  
 River Mile Index: 1.608 (PA DEP eMapPA)  
 Low Flow Yield: 0.135 cfs/mi<sup>2</sup>  
 Discharge Flow: 0.064 MGD

Node 2: At confluence with Perkiomen Creek 1017

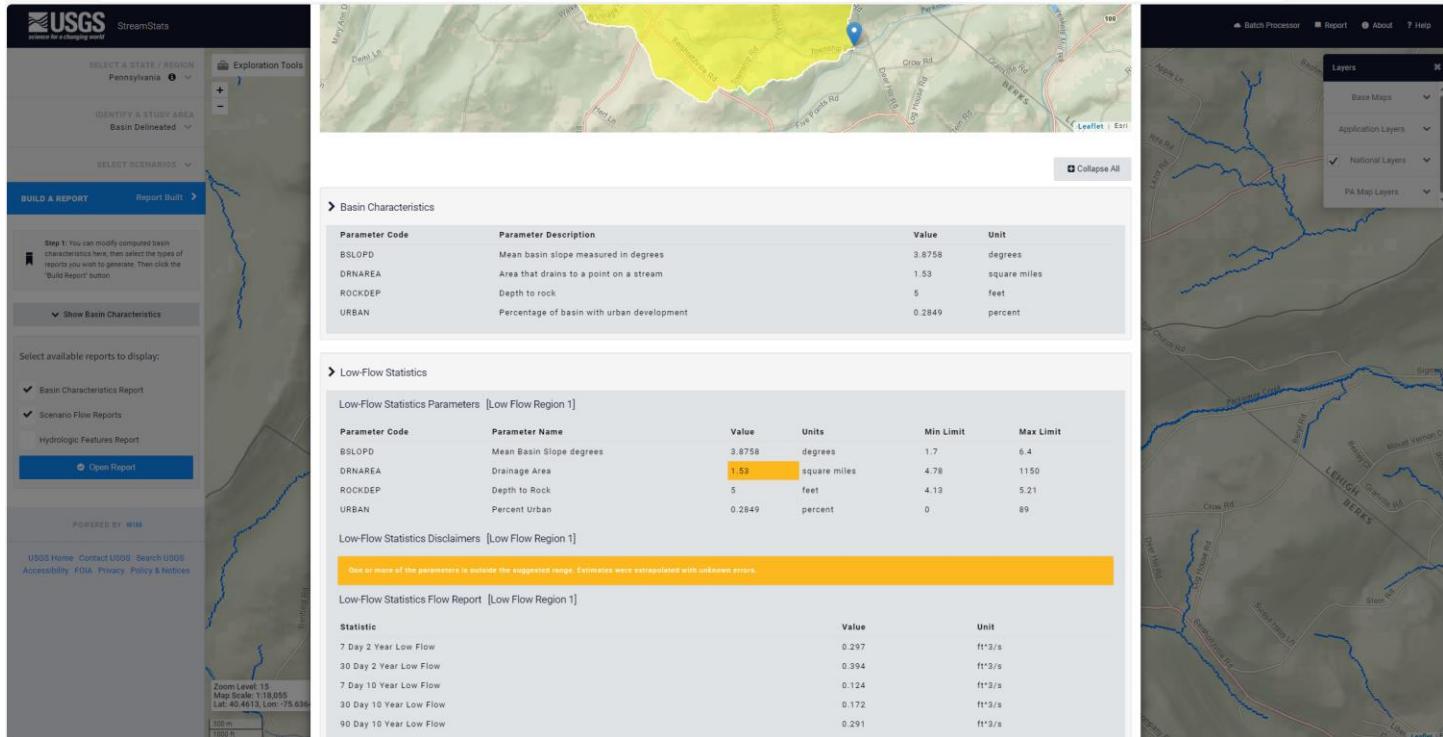
Elevation: 680.0 ft (USGS National Map Viewer)  
 Drainage Area: 1.53 mi<sup>2</sup> (USGS PA StreamStats)  
 River Mile Index: 0.001 (PA DEP eMapPA)  
 Low Flow Yield: 0.135 cfs/mi<sup>2</sup>  
 Discharge Flow: 0.0 MGD



# NPDES Permit Fact Sheet

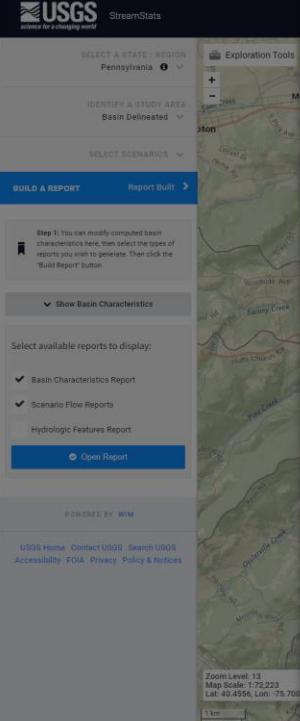
## Mountain Village MHP

NPDES Permit No. PA0041491



## NPDES Permit Fact Sheet Mountain Village MHP

NPDES Permit No. PA0041491



**Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
BSLOPO	Mean Basin Slope measured in degrees	5.2172	degrees
DRNAREA	Area that drains to a point on a stream	37.6	square miles
ROCKDEP	Depth to rock	4.8	feet
URBAN	Percentage of basin with urban development	2.8986	percent

**Low-Flow Statistics**

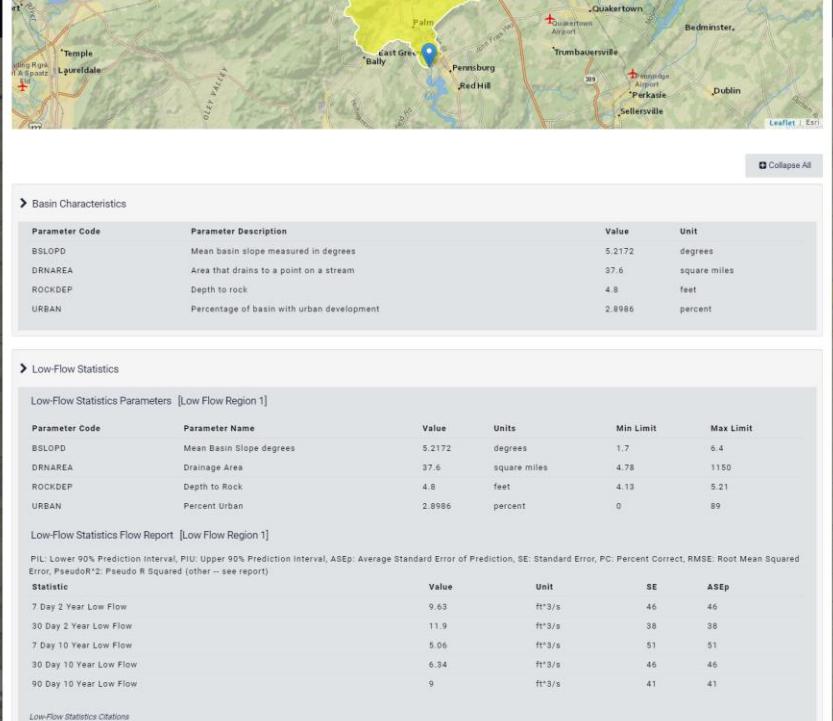
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
BSLOPO	Mean Basin Slope degrees	5.2172	degrees	1.7	6.4
DRNAREA	Drainage Area	37.6	square miles	4.78	1150
ROCKDEP	Depth to Rock	4.8	feet	4.13	5.21
URBAN	Percent Urban	2.8986	percent	0	89

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

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR<sup>2</sup>: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	9.63	ft <sup>3</sup> /s	46	46
30 Day 2 Year Low Flow	11.9	ft <sup>3</sup> /s	38	38
7 Day 10 Year Low Flow	5.06	ft <sup>3</sup> /s	51	51
30 Day 10 Year Low Flow	6.34	ft <sup>3</sup> /s	46	46
90 Day 10 Year Low Flow	9	ft <sup>3</sup> /s	41	41

Low-Flow Statistics Citations



Layers

- Base Maps
- Application Layers
- National Layers
- PA Map Layers

**Analysis Results WQM 7.0**

**Hydrodynamics**   **NH3-N Allocations**   **D.O. Allocations**   **D.O. Simulation**   **Effluent Limitations**

RMI	Discharge Name	Permit Number Disc Flow (mgd)		
1.61	Mt. Village MHP	PA0041491	0.0640	
Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)	
CBOD5	10			
NH3-N	1.5	3		
Dissolved Oxygen			5	

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NPDES Permit Fact Sheet  
Mountain Village MHP

NPDES Permit No. PA0041491

**rptEffLimits**

**WQM 7.0 Effluent Limits**

SWP Basin	Stream Code	Stream Name					
USE	1501	Trib 01501 to Pekinomen Creek					
RM#	Name	Permit Number	Disch. Flow (mgd)	Parameter	Eff. Limit 30-day Ave. (mg/L)	Eff. Limit Maximum (mg/L)	Eff. Limit Minimum (mg/L)
1.608	Mt. Village MHP	PAC0011491	0.004	CBOD5	10		
				NH3-N	1.5	3	
				Dissolved Oxygen	5		

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**rpt\_WLA**

**WQM 7.0 Wasteload Allocations**

SWP Basin	Stream Code	Stream Name			
USE	1501	Trib 01501 to Pekinomen Creek			
<b>NH3-N Allocations</b>					
RM#	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)
1.608 Mt. Village MHP		11.65	3	11.65	3
<b>NH3-N Chronic Allocations</b>					
RM#	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)
1.608 Mt. Village MHP		1.47	1.5	1.47	1.5
<b>Dissolved Oxygen Allocations</b>					
RM#	Discharge Name	CBOD5 Baseline (mg/L)	CBOD5 Multiple (mg/L)	NH3-N Baseline (mg/L)	NH3-N Multiple (mg/L)
1.608 Mt. Village MHP		10	10	1.5	1.5
		5	5	5	5
		0	0	0	0

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**rptDOSim**

**WQM 7.0 D.O. Simulation**

SWP Basin	Stream Code	Stream Name				
USE	1501	Trib 01501 to Pekinomen Creek				
1.608	Total Discharge Flow (mgd)	0.004	Analysis Temperature (°C)	24.105	Analysis pH	7.000
Reach Length (ft)	Reach Depth (ft)	Reach Kd (mg/L)	Reach Velocity (ft/s)			
2,871	1,336	1.44	0.44			
Reach CBOD5 (mg/L)	Reach Kc (1/day)	Reach NH3-N (mg/L)	Reach Kn (1/day)			
0.57	1.336	1.23	0.960			
Reach DO (mg/L)	Reach Kr (1/day)	Reach DO Goal (mg/L)				
5.561	31.578	5				
Reach Transport Time (days)						
0.902						
Reach Transport Time (days)						
0.902						
Travel Time	CBOD5 (mg/L)	Reach DO (mg/L)	D.O. (mg/L)			
(days)	(mg/L)	(mg/L)	(mg/L)			
0.900	7.41	1.13	7.63			
0.180	6.40	1.01	7.66			
0.270	5.51	0.95	7.66			
0.361	4.79	0.87	7.66			
0.451	4.14	0.80	7.66			
0.541	3.53	0.73	7.66			
0.631	3.09	0.67	7.66			
0.721	2.68	0.62	7.66			
0.811	2.31	0.57	7.66			
0.902	2.00	0.52	7.66			

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**rptModelSpecs**

**WQM 7.0 Modeling Specifications**

Parameter	Value	Notes
WLA Method	EMPR	Use Inputted Q-10 and Q30-10 Flow
Q1-100:Q-10 Ratio	0.64	Use Inputted W/LA Ratio
Q30-100:Q-10 Ratio	1.36	Use Inputted Reach Travel Times
D.O. Saturation	90.0%	Temperature Adjust At
D.O. Goal	5	Use Balanced Technology

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NPDES Permit Fact Sheet  
Mountain Village MHP

NPDES Permit No. PA0041491

**rptHydro**

**WQM 7.0 Hydrodynamic Outputs**

SWP Basin	Stream Code	Stream Name
03E	1501	Trib 01501 to Peckham Creek

RB#	Stream Flow (cfs)	PWS Flow (cfs)	Net Anticipated Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	WD Ratio	Velocity (ft/s)	Reach Time (days)	Analytic Temp (°C)	Analytic pH		
<b>Q7-10 F bw</b>	1.608	0.02	0.00	0.02	.099	0.02239	.366	2.67	7.44	0.11	0.002	24.10	7.00
<b>Q1-10 F bw</b>	1.608	0.01	0.00	0.01	.099	0.02239	NA	NA	NA	0.10	0.036	24.38	7.00
<b>Q30-10 Flow</b>	1.608	0.00	0.00	0.00	.099	0.02239	NA	NA	NA	0.11	0.071	23.66	7.00

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**rptGeneral**

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RB#	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply PC
03E	1501	Trib 01501 to Peckham Creek	<b>1.608</b>	68.00	1.53	0.000000	0.00	<input checked="" type="checkbox"/>

Design Cond.	LFY (cfs)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Time (days)	Rich Velocity (ft/s)	WD Ratio	Rich Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.135	0.00	0.00	0.000000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10	0.00	0.00	0.00	0.000000	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Q30-10	0.00	0.00	0.00	0.000000	0.0	0.00	0.00	0.00	0.00	0.00	0.00

Discharge Data											
Name	Permit Number	Existing Disc. Flow (mgd)	Permitted Disc. Flow (mgd)	Design Disc. Flow (mgd)	Design Disc. Flow (mgd)	Reserve Factor	Disc. Temp (°C)	Disc. pH	Disc. Conc. (mg/L)	Stream Conc. (mg/L)	Date Coef
Mr. Village MHP	PA0041491	0.0640	0.0640	0.0640	0.0000	25.00	7.00				

Parameter Data											
Parameter Name	Disc. Conc. (mg/L)	Trib. Conc. (mg/L)	Stream Conc. (mg/L)	Date Coef	(1/day)						
CBOD5	10.00	2.00	0.00	1.00							
Dissolved Oxygen	5.00	8.24	0.00	0.00							
NOx-N	1.50	0.00	0.00	0.70							

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**rptGeneral**

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RB#	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply PC
03E	1501	Trib 01501 to Peckham Creek	<b>0.001</b>	68.00	1.53	0.000000	0.00	<input checked="" type="checkbox"/>

Design Cond.	LFY (cfs)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Time (days)	Rich Velocity (ft/s)	WD Ratio	Rich Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.135	0.00	0.00	0.000000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10	0.00	0.00	0.00	0.000000	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Q30-10	0.00	0.00	0.00	0.000000	0.0	0.00	0.00	0.00	0.00	0.00	0.00

Discharge Data											
Name	Permit Number	Existing Disc. Flow (mgd)	Permitted Disc. Flow (mgd)	Design Disc. Flow (mgd)	Design Disc. Flow (mgd)	Reserve Factor	Disc. Temp (°C)	Disc. pH	Disc. Conc. (mg/L)	Stream Conc. (mg/L)	Date Coef
Mr. Village MHP	PA0041491	0.0000	0.0000	0.0000	0.0000	25.00	7.00				

Parameter Data											
Parameter Name	Disc. Conc. (mg/L)	Trib. Conc. (mg/L)	Stream Conc. (mg/L)	Date Coef	(1/day)						
CBOD5	25.00	2.00	0.00	1.50							
Dissolved Oxygen	5.00	8.24	0.00	0.00							
NOx-N	25.00	0.00	0.00	0.70							

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**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" (386-0400-001), 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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
D.O.	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.02	XXX	0.05	1/day	Grab
CBOD <sub>5</sub>	XXX	XXX	XXX	10.0	XXX	20.0	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	8-Hr Composite
Total Dissolved Solids	XXX	Report Daily Max	XXX	XXX	Report Daily Max	XXX	1/quarter	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	XXX	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	4.5	XXX	9.0	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	1.5	XXX	3.0	2/month	8-Hr Composite
Total Phosphorus	0.27	XXX	XXX	0.5	XXX	1.0	2/month	8-Hr Composite

Compliance Sampling Location:  

Other Comments:

**FINAL REPORT**

**Total Maximum Daily Load of Nutrients for  
Green Lane Reservoir  
Montgomery County, PA**

Prepared for:  
U.S. Environmental Protection Agency  
Region 3  
1650 Arch Street  
Philadelphia, PA

Prepared by:  
Tetra Tech, Inc.  
10306 Eaton Place  
Fairfax, VA

March 10th, 2003

Total Maximum Daily Load of Nutrients for Green Lane Reservoir

Table 4-5. Individual Wasteload allocations of total phosphorus for Green Lane Reservoir

Point Source	NPDES permit no.	Design Flow (mgd)	Total Phosphorus concentration (mg/l)	WLA (lbs/day)	WLA (lbs/month)
<b>Main Branch Perkiomen Subwatershed</b>					
Brown Printing	PA0051802	0.0116	0.5	0.048	1.45
East Greenville Filtration	PA0050644	0	0	0	0
Hereford Mobile Home Park	PA0041505	0.125	0.5	0.52	15.63
Knoll, Inc.	PA0011070	0.0279	0.5	0.116	3.49
Mountain Village Mobile Home Park	PA0041491	0.064	0.5	0.27	8
TTT Realty	PA0012891	0.0088	0.5	0.037	1.1
<i>Main Branch Perkiomen subwatershed total</i>					<b>29.7</b>
<b>West Branch Perkiomen Subwatershed</b>					
Bally Borough	PA0055123	0.5	0.5	2.08	62.55
Strawberry Family Restaurant	PA0053376	0.0015	0.5	0.006	0.19
Washington Township.	PA0086142	0.25	0.5	1.04	31.27
Woodland Mobile Home Park	PA0055352	0.014	0.5	0.059	1.75
<i>West Branch Perkiomen subwatershed total</i>					<b>95.8</b>
<b>Direct Drainage Subwatershed</b>					
Green Hills Mobile Home Park	PA0031887	0.03	0.5	0.13	3.75
Upper Perkiomen School District	PA0050911	0.004	0.5	0.017	0.5
<i>Direct Drainage subwatershed total</i>					<b>4.25</b>
<b>Direct Drainage (Urban) Subwatershed</b>					
Edmund Optics	PA0053864	0	0	0	0
Upper Montgomery Joint Authority	PA0020532	2	0.5	8.34	250.2
<i>Direct Drainage (urban) subwatershed</i>					<b>250.2</b>

Tools and References Used to Develop Permit	
<input checked="" type="checkbox"/>	WQM for Windows Model (see Attachment █ )
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment █ )
<input checked="" type="checkbox"/>	TRC Model Spreadsheet (see Attachment █ )
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment █ )
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input checked="" type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input checked="" type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input checked="" type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: BCW-PMT-033
<input checked="" type="checkbox"/>	Other: DRBC