

Application Type	Renewal
Wastewater Type	Sewage
Facility Type	SFTF

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0088684

 APS ID
 991087

 Authorization ID
 1422086

Applicant, Facility and Project Information

Applicant Name	John S Lentz & Rachel L Lentz	Facility Name	Pleasant Hills Campground
Applicant Address	12733 Pleasant Hills Drive, PO Box 86	Facility Address	12733 Pleasant Hills Drive
	Hesston, PA 16647-0086		Hesston, PA 16647-0086
Applicant Contact	John Lentz	Facility Contact	John Lentz
Applicant Phone	(814) 658-3986	Facility Phone	(814) 658-3986
Client ID	349185	Site ID	2960
SIC Code	7033	Municipality	Penn Township
SIC Description	Services - Trailer Parks And Campsites	County	Huntingdon
Date Application Receiv	ved November 28, 2022	WQM Required	N/A
Date Application Accep	ted January 4, 2023	WQM App. No.	
Project Description	NPDES permit renewal.		

Summary of Review

The PA Department of Environmental Protection (DEP or Department) has received an NPDES permit renewal application from Pleasant Hills Campground (permittee), located in Penn Township, Huntingdon County on November 28, 2022. This is a seasonal campground operated only during summer season (May-October).

The annual average design flow and Hydraulic Design Capacity is 2,000 GPD (0.002 MGD). The receiving stream is UNT to Hawns Run in watershed 11-D and classified as Warm Water Fishes -Migratory Fishes (WWF & MF). The existing permit was issued on June 29, 2018, PA0088684 A-1 amendment was issued on May 9, 2019 for ownership transfer and expires on June 30, 2023.

The WQM Part II No. 3101401 original was issued on 7/31/2001, 3101401 A-1 amendment was issued on 10/17/2006, and 3101401 T-1 ownership transferred was issued on 5/09/2019.

Sludge use and disposal description and location(s): N/A because sludge is hauled away, by Lake Septic.

Changes from the previous permit: The 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
х		<i>Hilaryle</i> Hilary H. Le / Environmental Engineering Specialist	March 31, 2023
x		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	April 13, 2023

scharge, Receivin	g Waters and Water Supply Informa			
Outfall No. 001		Design Flow (MGD)	0.002	
	24' 50.72"	Longitude	-78º 4' 55.18"	
		Quad Code	1521	
	Intingdon	Quad Code	1521	
Wastewater Descri	ption: Sewage Effluent			
	Unnamed Tributary to Hawns Run	Streem Code	40004	
Receiving Waters	(WWF)	_ Stream Code	13364	
NHD Com ID	65839875	RMI	2.37 miles See comments below	
Drainage Area	0.45 mi. ²	Yield (cfs/mi ²)		
Q7-10 Flow (cfs)	See comments below	Q7-10 Basis	See comments below	
Elevation (ft)	922.5	Slope (ft/ft)		
Watershed No.	11-D	Chapter 93 Class.	WWF	
Existing Use		Existing Use Qualifier		
Exceptions to Use		Exceptions to Criteria		
Assessment Status	Attaining Use(s)			
Cause(s) of Impair	ment			
Source(s) of Impair	rment			
TMDL Status	None proposed	Name N/A		
Nearest Downstrea	am Public Water Supply Intake	Mifflintown Water System Jun	iata River	
PWS Waters	Juniata river	Flow at Intake (cfs)		
PWS RMI	37.37 miles	Distance from Outfall (mi)	Approximate 66.3 miles	

Changes Since Last Permit Issuance: none

Drainage Area

The discharge is to Unnamed Tributary to Hawns Run at RMI 2.37 miles. A drainage area upstream of the discharge is estimated to be 0.45 mi.², according to USGS StreamStats available at <u>https://streamstats.usgs.gov/ss/</u>.

Stream Flow

Streamflow will be correlated with past stream flow records taken from the nearby USGS stream gauge 01563000 in Huntingdon, PA which is approximately 3.6 miles downstream of the discharge point. Q₇₋₁₀, and Q₃₀₋₁₀ values at this gage are 56.6 cfs, and 73.7 cfs. The drainage area at gauge station was found to be 956 mi². These values were obtained from the latest USGS streamflow report. The drainage area at the Discharge Point (DP) was found to be 0.06 mi² from USGS StreamStats.

 $\begin{array}{l} Q_{7\text{-}10} \text{ runoff rate} = 56.6 \text{ cfs} \ / \ 956 \ mi^2 = 0.06 \text{ cfs} / mi^2 \\ Q_{7\text{-}10} = 0.06 \text{ cfs} / mi^2 * 0.45 \ mi^2 = 0.027 \text{ cfs} \end{array}$

PWS Intake:

The nearest downstream public water supply is Mifflintown Water Systems in Juniata County on Juniata River at RMI 37.37 miles. It is approximately 66.3 miles downstream of the discharge. Due to the distance, dilution, and effluent limits the discharge is not expected to impact the water supply.

Treatment Facility Summary

This Small Flow Treatment Facility (SFTF) is at Penn Township, Huntingdon County. This facility is owned and operated by Pleasant Hills Campground. This is a seasonal campground operated only during summer season (May-October). There are total of 140 camp sites of which 132 sites are active. 125 sites are seasonal meaning they are rented for the whole summer season but may be used few times during the season. There are 6 overnight sites available.

NPDES Permit Fact Sheet

Pleasant Hills Campground

The facility has a contract operator and a consulting company providing technical support once a month and prior to plant start-up in April-May.

Per the most recent site inspection on August 18, 2021, the facility consists of the following treatment units:

- 1. One 1000-gallon grease trap
- 2. One 3,500-gallon septic tank
- 3. One 2,000-gallon dual compartment septic tank
- 4. One 1,000-gallon dosing tank with dual siphon pumps
- 5. Ten 1,250-gallons free access sand filters with a total surface area of 400 sft (10 unit * 40 sft/unit)
- 6. Aeration cascade
- 7. Norweco ITR 2000-S tablet chlorinator
- 8. 500-gallon chlorine contact tank
- 9. Tablet dechlorination
- 10. Outfall 001

	Compliance History							
Summary of DMRs:	Please see Table on page 4							
Summary of Inspections:	9/28/2022: Mr. Clark, DEP's WQS, conducted a following up inspection to check on the total residual chlorine (TRC) level of the discharge. There was no violation noted during inspection. The field test result for TRC was 0.01 mg/L.							
	8/18/2022: Mr. Clark, DEP's WQS, conducted compliance evaluation inspection. The violation was noted during inspection. The TRC field test results was over the permit limit. The dechlorinated tablet feeder was filled with tablets. Recommendation: should check the tablet feeder and confirm that the correct tablets were put in place and that the tablets are making contact with the effluent flowing through the pipe.							
	8/18/2021: Mr. Clark, DEP's WQS, conducted compliance evaluation inspection. There was no violation noted during inspection. Discharge flow was measured with a volumetric weir at the outfall. The tanks were last pumped in July 2021. The field test result for TRC was 0.01 mg/L.							
	6/23/2020: Mr. Clark, DEP's WQS, conducted an administrative inspection. There was no violation noted during inspection. The campground was open seasonally. There had been no effluent violations since July 2018.							
Other comments:	There are no open violations against the permittee or applicant.							

Parameter	Month													
	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21	Oct 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22
Flow (MGD)	0.00016 9	0.00031 1	0.00071	0.00087 7	0.00082 4	0.00058 4	0.00011 6	0.00011 5	0.00016 9	0.00028	0.00021 7	0.00025 4	0.00015 1	0.00011 4
TRC	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
BOD₅	< 7.0	< 3.0	< 3.0	< 3.0	< 3.0	3.0	< 3.0	< 3.0	< 3.0	< 3.0	14.0	< 3.0	< 5.0	< 3.0
TSS	7.0	4.0	< 2.0	3.0	2.0	2.0	4.0	4.0	3.0	< 2.0	14.0	< 2.0	2.0	5.0
Fecal Coliform	< 1.0	1.0	< 1.0	< 1.0	< 3.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	3.0	< 0.1

Development of Effluent Limitations

Outfall No.	fall No001		Design Flow (MGD)	0.002		
Latitude	40° 24' 50.72"		Longitude	-78º 4' 55.18"		
Wastewater Description:		Sewage Effluent				

Water Quality-Based Limitations

DEP's Standard Operating Procedures (SOP) for the Clean Water Program SOP No. BPNPSM-PMT-003 version 1.8 revised on May 17, 2019, indicates that in determining effluent limitations for the reissuance of a permit for a Small Flow Treatment Facility (SFTF), water quality modeling via PentoxSD and/or WQM will not be conducted.

Additional Considerations

Flow monitoring:

Flow monitoring will be continued in this renewal in accordance with DEP's SOP BPNPSM-PMT-003 version 1.8 revised on May 17, 2019. The reporting frequency will be revised to twice a month and sample type is Measured (for SFTF). The facility had installed volumetric weir to measure the flow.

Biochemical Oxygen Demand (BOD₅):

DEP's Standard Operating Procedure (SOP) No. BPNPSM-PMT-003, version 1.8 revised May 17, 2019, suggests average monthly BOD₅ limit to be 10.0 mg/L and instantaneous maximum (IMAX) limit to be 20.0 mg/L for new or renewal permits. Existing BOD₅ limit is 25.0 mg/L as average monthly. However, the SOP also indicated that more stringent BOD₅ limits may not be applicable for existing SFTFs that were permitted prior to the publication of the Small Flow Treatment Facilities Manual (362-0300-002), which is December 2, 2006, when such facilities are not capable of meeting tertiary treatment limits. The treatment plant was first permitted in July 31, 2001. The minimum monitoring frequency will remain the same as 2/month.

Total Suspended Solids (TSS):

DEP's Standard Operating Procedure (SOP) No. BPNPSM-PMT-003, version 1.8 revised May 17, 2019, suggests average monthly TSS limit to be 10.0 mg/L and IMAX limit to be 20.0 mg/L. Existing limits are 30.0 mg/L as monthly average and 60.0 mg/L as IMAX. As discussed in BOD₅ section above, more stringent TSS limits may not be applicable for this facility. Minimum monitoring frequency will remain the same as 2/month.

Fecal Coliform:

Per SOP, a year-round average monthly limit for fecal coliform geometric mean to be 200/100 ml for all new or renewal. The existing permit has year-round limit. The minimum monitoring frequency is 1/month per SOP and will remain in the proposed permit.

E. Coli:

As recommended by DEP's SOP No. BCW-PMT-033, version 1.9 revised March 22, 2021, 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/year will be included in the permit to be consistent with the recommendation from this SOP.

Total Residual Chlorine:

The attached computer printout or TRC Spreadsheet utilizes the equation and calculations as presented in the Department's 2003 Implementation Guidance for Total Residual Chlorine (TRC) (ID#391-2000-015) for developing chlorine limitations, which indicates average monthly limit of 0.05 mg/L & IMAX limit of 1.6 mg/L. The minimum monitoring frequency will remain 2/month.

Ammonia-N:

Since no WQM model was utilized for SFTFs, not recommended in SOP, receiving stream is not impaired, there is no nearby downstream water supply wells, and nearby PWS intake is approximately 66 miles downstream of the discharge point, it is recommended that no Ammonia-N monitoring requirements need for this permit cycle.

Chesapeake Bay Tributary Strategy:

Facilities with design flow less than or equal to 2,000 GPD are exempted from monitoring Chesapeake Bay nutrients parameters.

NPDES Permit Fact Sheet Pleasant Hills Campground Anti-Degradation Requirement

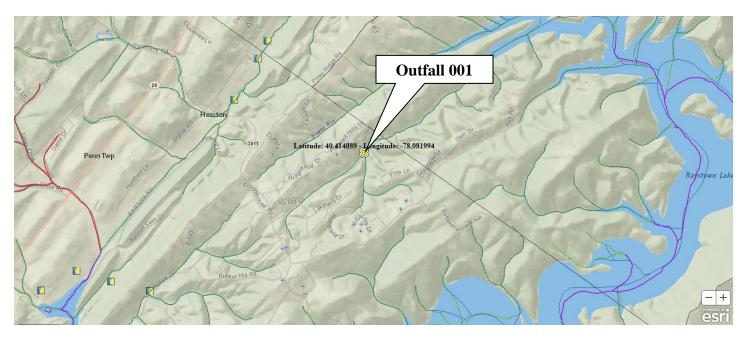
Chapter 93.4a(b) of the Department's rules and regulations require that "Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." No High Quality (HQ) stream will be impacted by this discharge. No Exceptional Value (EV) water will be impacted by this discharge.

Class A Wild Trout Streams:

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

303d Listed Streams:

The discharge is in a stream segment of UNT to Hawns Run which is attaining its designated use of Aquatic Life and is not listed in 303d list.



TRC EVALUATION								
Input appropri	iate values ir	n A3:A9 and D3:D9						
0.027	7 = Q stream	n (cfs)	0.5	= CV Daily				
0.002	2 = Q discha	arge (MGD)	0.5	= CV Hourly				
30) = no. samp	ples	1	= AFC_Partia	al Mix Factor			
0.3	B = Chlorine	Demand of Stream	1	= CFC_Partia	al Mix Factor			
() = Chlorine	Demand of Discharge	15	= AFC_Crite	ria Compliance Time (min)			
0.5	5 = BAT/BPJ	J Value	720	= CFC_Crite	ria Compliance Time (min)			
0) = % Facto	r of Safety (FOS)		=Decay Coe	fficient (K)			
Source	Reference	AFC Calculations		Reference	CFC Calculations			
TRC	1.3.2.iii	WLA afc =	2.803	1.3.2.iii	WLA cfc = 2.725			
PENTOXSD TRO	G 5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581			
PENTOXSD TRO	G 5.1b	LTA_afc=	1.044	5.1d	LTA_cfc = 1.584			
Source			nt Limit Calcu					
PENTOXSD TRO			AML MULT =					
PENTOXSD TRO	G 5.1g		.IMIT (mg/l) =		BAT/BPJ			
		INST MAX L	.IMIT (mg/l) =	1.635				
14/1 A - C-	(040)-(14	AFO IN . MAFO N-10	-+ 040/04+					
WLA afc		*AFC_tc)) + [(AFC_Yc*Q AFC_Yc*Qs*Xs/Qd)]*(1-		e(-K AFC_tc))				
LTAMULT afc		(cvh^2+1))-2.326*LN(cvh^2						
LTA_afc	wla_afc*LTA		211) 0.3)					
ETA_alc	wia_are Err							
WLA_cfc	(.011/e(-k*	CFC tc) + [(CFC Yc*Qs	s*.011/Qd*e	(-k*CFC_tc))				
		CFC Yc*Qs*Xs/Qd)]*(1-						
LTAMULT_cfc	•	(cvd^2/no_samples+1))-2.3	-	2/no_samples+	1)^0.5)			
LTA_cfc	wla_cfc*LT4							
AML MULT	EXP(2.326*L	N((cvd^2/no_samples+1)^	0.5)-0.5*LN(c	vd^2/no_samp	es+1))			
AVG MON LIMIT	MIN(BAT_B	PJ,MIN(LTA_afc,LTA_cfc)*	AML_MULT)					
INST MAX LIMIT	1.5*((av_п	non_limit/AML_MULT)/L1	TAMULT_af	c)				

NPDES Permit Fact Sheet Pleasant Hills Campground

NPDES Permit No. PA0088684

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		> Basin Characterist	ics						National Layers	s ~
BUILD A REPORT Report Built >		Parameter Code	Parameter Description			Value	Unit		PA Map Layers	~
		CARBON	Percentage of area of carbonate ro	ck		0	percent		1	
		DRNAREA	Area that drains to a point on a stre	am		0.45	square m	illes	avela	
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reports you wish to generate. Then click the		ROCKDEP	Depth to rock			3	feet			
"Build Report" button		STRDEN	Stream Density total length of str	eams divided by c	Irainage area	2.65	miles pe	r square mile	Connersit and and and	-
✓ Show Basin Characteristics	/									
Select available reports to display:		> Low-Flow Statistic	s						17	
 Basin Characteristics Report 		Low-Flow Statistics	s Parameters [Low Flow Region 2]						-	
		Parameter Code	Parameter Name	Value	Units	Mi	n Limit	Max Limit	and the second	
✓ Scenario Flow Reports	There	DRNAREA	Drainage Area	0.45	square miles	4.9	93	1280		
Open Report	Pines	PRECIP	Mean Annual Precipitation	37	inches	35		50.4	1 Mar	
	and here	STRDEN	Stream Density	2.65	miles per square mile	0.5	51	3.1	- ^e 9-	
	5/	ROCKDEP	Depth to Rock	3	feet	3.3	32	5.65	anya	1
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		7 Day 2 Year Low Fl	ow		0.00743		ft^3,	's	1	
	and the same of th	30 Day 2 Year Low F	low		0.0132		ft^3,	's		
	1	7 Day 10 Year Low F	low		0.00159		ft^3,	's	/	
	Zoom Level: 1 Map Scale: 1:9 Lat: 40.4182, L	30 Day 10 Year Low	Flow		0.0031		ft^3,	s		
	Lat: 40.4182, L	90 Day 10 Year Low			0.00763		ft^3,			

StreamStats	
SELECT A STATE / REGION Pennsylvania 0 🗸	Expl
IDENTIFY & STUDY AREA Basin Delineated 🐱	Vandergrift Orchard
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✓ Show Basin Characteristics	Greensb
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iontown Hopwood	In Dass Meyeradae	MAR	Mercersburg' Green	mbersburg ncastle Waynesboro	Gettysburg Ha
					Collap
Basin Characterist	tics				
Parameter Code	Parameter Description			Value Un	it
CARBON	Percentage of area of carbonate roc	k		12.99 pe	rcent
DRNAREA	Area that drains to a point on a strea	am		956 sq	uare miles
PRECIP	Mean Annual Precipitation			38 inc	ches
ROCKDEP	Depth to rock			4.3 fee	et
STRDEN	Stream Density total length of stre	ams divided by d	drainage area	2.33 mi	les per square mile
Low-Flow Statistic Low-Flow Statistic	cs es Parameters [100.0 Percent (956 sc	quare miles) Lov	v Flow Region 2]		
Parameter Code	Parameter Name	Value	Units	Min Li	mit Max Limit
DRNAREA	Drainage Area	956	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	38	inches	35	50.4
STRDEN	Stream Density	2.33	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4.3	feet	3.32	5.65
	Percent Carbonate	12.99	percent	0	99

Statistic	Value	Unit	SE	ASEp	
7 Day 2 Year Low Flow	99.7	ft^3/s	38	38	
30 Day 2 Year Low Flow	129	ft^3/s	33	33	
7 Day 10 Year Low Flow	56.6	ft^3/s	51	51	
30 Day 10 Year Low Flow	73.7	ft^3/s	46	46	
90 Day 10 Year Low Flow	104	ft^3/s	36	36	
Low-Flow Statistics Citations					
Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow Investigations Report 2006-5130, 84 p.	regression equations for Pen	nsylvania streams: (U.S. Geologica	l Survey Scier	ntific



Existing Effluent Limitations and Monitoring Requirements

Parameter		Monitoring Requirements						
	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	xxx	xxx	xxx	xxx	2/month	Measured
TRC	ххх	xxx	xxx	0.5	XXX	1.6	2/month	Grab
BOD5	XXX	XXX	xxx	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	Grab
Fecal Coliform (No./100 ml)	ххх	xxx	xxx	200 Geo Mean	XXX	1000	1/month	Grab

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		Monitoring Requirements						
	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	xxx	xxx	xxx	2/month	Measured
TRC	ххх	xxx	ххх	0.5	XXX	1.6	2/month	Grab
BOD5	ххх	xxx	xxx	25.0	XXX	50.0	2/month	Grab
TSS	ХХХ	XXX	XXX	30.0	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml)	xxx	xxx	xxx	200 Geo Mean	xxx	1,000	1/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab

Compliance Sampling Location: