

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0101117
APS ID 963981
Authorization ID 1221309

Applicant, Facility and Project Information

Applicant Name	<u>Steven J Parsons D/B/A Shady Acres MHP</u>	Facility Name	<u>Shady Acres MHP</u>
Applicant Address	<u>PO Box 358</u> <u>Edinboro, PA 16412-0358</u>	Facility Address	<u>16050 Route 98</u> <u>Edinboro, PA 16412</u>
Applicant Contact	<u>Steven Parsons</u>	Facility Contact	<u>Debra Parsons</u>
Applicant Phone	<u>(814) 734-5624</u>	Facility Phone	<u>(814) 734-5624</u>
Client ID	<u>37411</u>	Site ID	<u>447613</u>
Municipality	<u>Cussewago Township</u>	County	<u>Crawford</u>
SIC Code	<u>4952</u>	SIC Code	<u></u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	SIC Description	<u></u>
Received	<u>March 5, 2018</u>	WQM Required	<u>Issued permit is adequate</u>
Accepted	<u>March 26, 2018</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES permit renewal.</u>		

Summary of Review

As this facility is generally achieving the Department's small flow requirements (design is for 0.002-MGD, the discharge is less than 0.001-MGD, CBOD5 and TSS are less than 10-mg/L and the monthly TRC is 0.28 to 1.12-mg/L) the small flow effluent limitations and monitoring are proposed.

Septic tanks were last reported pumped on March 1, 2018.

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.

Approve	Deny	Signatures	Date
X		William H. Mentzer, P.E. Environmental Engineering Specialist	May 29, 2019
X		Justin C. Dickey, P.E. Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.002</u>
Latitude NHD	<u>41° 50' 35.19"</u>	Longitude NHD	<u>-80° 13' 28.26"</u>
Latitude DP	<u>41° 50' 41.35"</u>	Longitude DP	<u>-80° 13' 36.80"</u>
Quad Name	<u>Edinboro South</u>	Quad Code	<u>0404</u>
Wastewater:	<u>Treated mobile home park domestic wastes</u>		

Receiving Waters	<u>Unnamed trib to Cussewago Creek</u>	Stream Code	<u>Unknown</u>
NHD Com ID	<u>127348127</u>	RMI	<u>0.11</u>
Drainage Area	<u>0.1</u>	Yield (cfs/mi ²)	<u>0</u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>Dry swale</u>
Elevation (ft)	<u>1200.00</u>	Slope (ft/ft)	<u>0.0634</u>
Watershed No.	<u>16D</u>	Chapter 93 Class.	<u>Warm Water Fish</u>
Existing Use	<u>statewide</u>	Existing Use Qualifier	<u>none</u>
Exceptions to Use	<u>none</u>	Exceptions to Criteria	<u>none</u>
Comments	<u>Perennial stream conditions exist downstream at the confluence with Cussewago Creek.</u>		
<u>Confluence stream data: Cussewago Creek RMI 30.22, Elevation 1163.18 feet, Drainage 12.7 square-mile.</u>			
<u>The Stream Stats low flow is 0.626-cfs with a total stream to waste ratio greater than 200:1</u>			

Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____

Background/Ambient Data		Data Source
pH (SU)	_____	_____
Temperature (°F)	_____	_____
Hardness (mg/L)	_____	_____
Other:	_____	_____

Nearest Downstream Public Water Supply Intake	<u>Aqua Pa Emlenton</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1250 cfs</u>
PWS RMI	<u>90.57</u>	Distance from Outfall (mi)	<u>97</u>

Changes Since Last Permit Issuance: none

Other Comments: none

Treatment Facility Summary				
Treatment Facility Name: Shady Acres MHP				
WQM Permit No.	Issuance Date			
2073407	1973			
2073407 T1	July 19, 1994			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.002000
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.002000	4.60	Not Overloaded	Anaerobic Digestion	OTHER

Changes Since Last Permit Issuance: none

Other Comments:

Planning was approved by the township on 8 July 1973 and by the county on 8 June 1973.

Design is for 9-units at 27-people, 4.6-PPD, 0.17-ppcd and 70-gpdc.

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 ₅	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)
DO	4			bPJ

As the facility self-monitoring reports show general compliance backsliding was not considered.

Water Quality-Based Limitations

The following limitations were previously determined:

Parameter	Limit (mg/l)	SBC	Model
DO	3	NA	3

DO change is a BPJ modification.

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) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	Upon Request	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	Upon Request	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: outfall 001 after disinfection