

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0222721
APS ID 505536
Authorization ID 1299978

Applicant and Facility Information

Applicant Name	<u>Squaw Valley Woodlands</u>	Facility Name	<u>Squaw Valley Woodlands STP</u>
Applicant Address	<u>3179 Morningside Drive</u> <u>Allison Park, PA 15101</u>	Facility Address	<u>221 Byron Center Road</u> <u>Emlenton, PA 16373-2313</u>
Applicant Contact	<u>Rhonda Berberich, administrator</u>	Applicant	<u>Laverne Johnson</u>
E-mail	<u>rlberberich@gmail.com</u>		
Applicant Phone	<u>(412) 487-0660</u>	Facility Phone	
Client ID	<u>120900</u>	Site ID	<u>496615</u>
Municipality	<u>Allegheny Township</u>	County	<u>Butler</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Connection Status	<u>No Limitations</u>
SIC Code	<u>7033</u>	SIC Code	<u>4952</u>
SIC Description	<u>Services - Trailer Parks And Campsites</u>	SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>
Application Received	<u>December 30, 2019</u>	EPA Waived?	<u>Yes</u>
Application Accepted	<u>January 30, 2020</u>	If No, Reason	
Application Purpose	<u>NPDES discharge permit renewal</u>		

Summary of Review

No open violations listed. Continuous grey water treatment facility with an intermittent discharge. Monitoring is based on the anticipated discharge that is lower than the facility design. *The SFTF representative monitoring requirements and effluent limitations from the previous permit renewal will be continued.* JCD

A name change is proposed. The original facility was incorporated as Squaw Valley Recreational Sales in a different location. Later it was relocated and the original owner died. The subsequent owner continued operation as Squaw Valley Recreational Sales without amending the corporation papers. The applicant has proposed operating the facility as Squaw Valley Woodlands LLC.

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 William H. Mentzer, P.E. Environmental Engineering Specialist	September 15, 2020
X		Justin C. Dickey Justin C. Dickey, P.E. Environmental Engineer Manager	September 21, 2020

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0047</u>
Latitude DP	<u>41° 9' 25.00"</u>	Longitude DP	<u>-79° 46' 15.00"</u>
Latitude NHD	<u>41° 9' 19.50"</u>	Longitude NHD	<u>-79° 46' 13.50"</u>
Quad Name	<u>Eau Claire</u>	Quad Code	<u>0906</u>
Wastewater:	<u>Treated campground grey water</u>		
Receiving Waters	<u>Unnamed Tributary to Carrs Run</u>	Stream Code	<u>unknown</u>
NHD Com ID	<u>100480079</u>	RMI	<u>0.13</u>
Drainage Area	<u>0.01</u>	Yield (cfs/mi ²)	<u>0.0</u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>E Sandy & Sandy Creek</u>
Elevation (ft)	<u>1415.11</u>	Slope (ft/ft)	<u>0.10833</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>CWF</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>Carrs Run 51306 confluence at RMI 1.11, 1331.81 feet elevation and 1.53 sq-mi drainage</u>		
	<u>Discharge to 51307 at RMI 0.44 1356.49 feet elevation and 0.47 sq mi drainage below a pond/strip mine/</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)	<u>7.5</u>		<u>above Rte 8 bridge – 1997 aquatic biologist investigation</u>
Temperature (°C)	<u>20</u>		<u>Default1</u>
Hardness (mg/L)	_____		_____
Other:	_____		_____
Nearest Downstream Public Water Supply Intake	<u>Aqua PA</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	_____
PWS RMI	<u>90/57</u>	Distance from Outfall (mi)	<u>14.96</u>

Changes Since Last Permit Issuance: none

Other Comments: This discharge should not impact any downstream public water supply.

Treatment Facility Summary				
Treatment Facility Name: West Fallowfield Township STP				
WQM Permit No.	Issuance Date			
1099402	January 10, 2000			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia Reduction	Septic tank sandfilter	Hypochlorite	0.0047
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0047	7	Not Overloaded	Anaerobic Digestion	Other WWTP

Grey water system

Changes Since Last Permit Issuance: none

	Month	year	mean	min	mean	max	#	min	mean	max	#	min	mean	max	#
TRC								7		7	1				
Coliform								< 1	< 1	< 1	1				
CBOD5									3	3	1				
TSS									3	3	1				

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) 0.0047
 Latitude 41° 9' 25" Longitude -79° 46' 15"
 Wastewater Description: Treated campground grey water

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	4.0-mg/L	Daily minimum		BPJ

Comments: Achievable revised TRC and DO technology requirements are recommended,

Water Quality-Based Limitations

A Sewerage program based “Reasonable Potential Analysis” determined the following parameters were candidates for limitations: Phosphorus, CBOD₅, ammonia, DO, pH, and TRC.

The TRC Spreadsheet was used to evaluate chlorine.

		Permit			SBC	Model		
		minimum	mean	maximum		minimum	mean	maximum
TRC			0.5	1.6			0.5	1.6
CBOD ₅			10.0	20.0			10.0	20.0
ammonia	summer		3.0	6.0			3.0	6.0
ammonia	winter		9.0	18.0			9.0	18.0
DO		4.0				4.0		

Dry stream discharge that should be abated when the discharge reaches perennial stream conditions.

Best Professional Judgment (BPJ) Limitations

Comments: The CBOD₅, TSS, and pH requirements are small flow based using septic tank with a sub-surface sand filter and disinfection as the technology basis.

The Small Flow design considerations also eliminated the need for DO, ammonia, nitrogen and phosphorus monitoring and DO and ammonia limitations. These requirements were established during the previous NPDES permit comment period.

Anti-Backsliding

Not necessary

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	Weekly Average	Minimum	Average Monthly	Weekly Average	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	1/ month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	2000 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001 after disinfection