

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SFTF

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

Application No. PA0264334  
APS ID 1036861  
Authorization ID 1350706

**Applicant, Facility and Project Information**

Applicant Name	<u>Denis Brooks</u>	Facility Name	<u>Denis Brooks SFTF</u>
Applicant Address	<u>3257 Soap Fat Road</u> <u>Shippenville, PA 16254-3029</u>	Facility Address	<u>3257 Soap Fat Road</u> <u>Shippenville, PA 16254-3029</u>
Applicant Contact	<u>Denis Brooks</u>	Facility Contact	<u></u>
Applicant E Mail	<u>denis@deercreekwine.com</u>	Facility E Mail	<u></u>
Applicant Phone	<u>(724) 372-0564</u>	Facility Phone	<u></u>
Client ID	<u>325413</u>	Site ID	<u>811371</u>
Municipality	<u>Elk Township</u>	County	<u>Clarion</u>
SIC Code	<u>7000</u>	SIC Code	<u>4952</u>
SIC Description	<u>Hotels And Other Lodging Places,</u>	SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>
Application Received	<u>March 15, 2021</u>	WQM Required	<u>The Present facility is adequate.</u>
Application Accepted	<u>May 31, 2021</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES permit renewal</u>		

**Summary of Review**

No WMS listed violations. The facility serves an eight-room bed and breakfast as part of the Deer Creek Winery, LLC.

The only filed AMR is dated June 2017 and states effluent analysis will be done in July. Start-up was late 2016 with first sludge removal on October 30, 2020. Chlorination bridging reported and corrected, The system was pumped this last summer which should abate the BOD5 and TSS levels.

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		<i>William H. Mentzer</i> William H. Mentzer, P.E. Environmental Engineering Specialist	October 17, 2022
X		vacant Environmental Engineer Manager	Okay to Draft JCD 10/24/2022

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.00194</u>
Latitude DP	<u>41° 18' 4.70"</u>	Longitude DP	<u>-79° 29' 12.14"</u>
Latitude NHD	<u>41° 18' 4.43"</u>	Longitude NHD	<u>-79° 29' 11.78"</u>
Quad Name	<u>Fryburg</u>	Quad Code	<u>0810</u>
Wastewater Description: <u>Treated domestic wastes</u>			
Receiving Waters	<u>Unnamed Tributary Judith Run</u>	Stream Code	<u>63347</u>
NHD Com ID	<u>102669307</u>	RMI	<u>0.3800</u>
Drainage Area	<u>0.94 (598.8 acres)</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.02806</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.02638</u>	Q <sub>7-10</sub> Basis	<u>Sevenmile Run near Rasselas</u>
Elevation (ft)	<u>1388.00</u>	Slope (ft/ft)	<u>0.015152</u>
Watershed No.	<u>17-B</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>NHD precision limited latitude and longitude</u>		
Assessment Status	<u>Impaired, this proposal should not impact the mining TMDL.</u>		
Cause(s) of Impairment	<u>Metals, Siltation, pH</u>		
Source(s) of Impairment	<u>Abandoned Mine Drainage</u>		
TMDL Status	<u>Final</u>	Name	<u>Deer Creek (Clarion)</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7.0</u>	model default	
Temperature (°F)	<u>20</u>	CWF	
Hardness (mg/L)	<u>100</u>	model default	
Other:	<u>No AMD waiver is proposed in the Deer Creek TMDL. Stream modeling is independent of the TMDL.</u>		
Nearest Downstream Public Water Supply Intake	<u>City of Parker</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>NA</u>
PWS RMI	<u>83.95</u>	Distance from Outfall (mi)	<u>36.91</u>

Changes Since Last Permit Issuance: none

Other Comments: none

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Denis Brooks SFTF				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
1615402				
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	secondary	Coconut filter	chlorination	0.0004
<b>Hydraulic Capacity (MGD)</b>				
0.0004	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
	1.1	No overload	anaerobic	Off site

Changes Since Last Permit Issuance: NA

Other Comments: Permitted is a septic tank with a coconut fiber filter. Review is based on the facility NSF listing.

		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
May 2022	TRC	0.53	0.26	< 0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	0.33	
	UV		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	BOD5	12.4	28.4	10.4	15.0	23.0	80.4	46.8	190	166	58.6	140	
	pH	6.7	6.37	6.47	6.88	6.74	6.65	6.84	7.27	7.3	7.65	7.74	
	TSS	20.0	384	15.5	36.0	236	492	120	47	840	280	1260	
	Fecals	1	80.4	<1	29.5	>2449.6	>2419.6	>2449.6	12098	>2419.6	>2419.6	>4839.2	

**Development of Effluent Limitations**

<b>Outfall No.</b>	<u>001</u>	<b>Design Flow (MGD)</b>	<u>.00194</u>
<b>Latitude</b>	<u>41° 18' 4.70"</u>	<b>Longitude</b>	<u>-79° 29' 12.14"</u>
<b>Wastewater Description:</b>	<u>Treated domestic wastes</u>		

**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: The secondary treatment requirements listed above are superseded by the small flow advance treatment requirements (10-mg/L for 5 Day CBOD and TSS).

**Water Quality-Based Limitations**

TRC and WQM 7.0 modelling do not recommend TRC, 5 day CBOD or ammonia water-quality based limitations.

The example small flow permit recommends twice a year analysis for 5 day CBOD, TSS, ammonia, and pH while the small flow guidance except for pH recommends monthly analysis. For small flow discharges not in special protection waters upon request pH monitoring is recommended.

The discharge is an addition to the Deer Creek TMDL which also includes:

Facility Name	NPDES permit	Outfalls MGD	Waste Flow Code	Stream	TMDL pH	
					Min	Max
CLARION CNTY AIRPORT AUTH	PAR808370	001, 002 & 005	NA	49415	4.8	5.3
CLARION CNTY AIRPORT AUTH	PAR808370	006	NA	Trib to 49422	7.1	7.6
CLARION CNTY AIRPORT AUTH	PAR808370	004	NA		49423	no data
PA AMER WATER PAINT-ELK WWTP	PA0034924	001	0.6	49424	3.4	4.5
CORNER WATER SUPPLY & SVC CORP	PA0104426	001	0.0014	49424	3.4	4.5
SHIPPENVILLE BORO STP	PA0103276	001	0.1	49407	3.3	6.3
DENIS BROOKS SFTF	PA0264334	001	0.00194	63347	3.8	4.2
TROY A WOLBERT SFTF	PAG048678	001	0.0004	49466	4.9	5.0
RICHARD A BAUMCRATZ SRSTP	PAG048665	001	0.0004	49466	4.9	5.0
EDGAR L & MARYLOU BELL SFTF	PAG049014	001	0.0004	49465	3.3	4.8
KAHLES KITCHENS INC	PAR228332	001	NA	49465	3.3	4.8
JENNIFER A & RONALD J GROOMS SFTF	PAG048759	001	0.0004	49456	4.5	6.4
FARMINGTON TWP STP CLARION	PA0223042	001	0.1	49465	3.3	4.8
CLARION BATHWARE INC	NNOEXNW05	001, 002 & 003	NA	63341	no data	

IW NPDES Permit PA0104426 has aluminum, iron, and manganese. Industrial Waste Storm water Permits PAR808370, PAR228332, and NNOEXW05; small flow sewage permits PAG048678, PAG048665, and PAG048759; and sewage permits PA0034924, PA0103276, and PA0223042 are not listed

**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	Average Monthly	Maximum	Instant. Maximum		
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
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
BOD5	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	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001 after disinfection