

Application Type New  
Wastewater Type Sewage  
Facility Type SFTF

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

Application No. PA0247740  
APS ID 552092  
Authorization ID 1044327

**Applicant, Facility and Project Information**

Applicant Name	<u>Big Spring Fish &amp; Game</u>	Facility Name	<u>Big Spring Fish &amp; Game Properties</u>
Applicant Address	<u>PO Box 81</u> <u>Newville, PA 17241</u>	Facility Address	<u>20 Fish and Game Road</u> <u>Newville, PA 17241</u>
Applicant Contact	<u>Chris Gutshall</u>	Facility Contact	<u>Chris Gutshall</u>
Applicant Phone	<u>717-225-5275</u>	Facility Phone	<u>717-225-5275</u>
Client ID	<u>240776</u>	Site ID	<u>646892</u>
SIC Code	<u>7999</u>	Municipality	<u>North Newton Township</u>
SIC Description	<u>Services - Amusement And Recreation, Nec</u>	County	<u>Cumberland</u>
Date Application Received	<u>December 3, 2021</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>December 3, 2021</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES Permit Renewal.</u>		

**Summary of Review**

An NPDES permit renewal application was submitted for a small flow sewage treatment plant located in North Newton Township, Cumberland County.

Based on the review outlined in this report, it is recommended that the permit be drafted and published in the *Pennsylvania Bulletin* for public comments for 30 days.

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>Jinsu Kim</i> Jinsu Kim / Environmental Engineering Specialist	October 6, 2022
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	November 15, 2022

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	001	Design Flow (MGD)	0.0006
Latitude	40° 10' 39.00"	Longitude	77° 26' 56.00"
Quad Name	Newville	Quad Code	1726
Wastewater Description:	Treated Sewage		
Receiving Waters	Conodoguinet Creek	Stream Code	10194
NHD Com ID	56407799	RMI	58.66
Drainage Area	218.56	Yield (cfs/mi <sup>2</sup> )	0.08
Q <sub>7-10</sub> Flow (cfs)	16.5	Q <sub>7-10</sub> Basis	USGS PA Stream Stats
Elevation (ft)	484	Slope (ft/ft)	0.0015
Watershed No.	7-B	Chapter 93 Class.	WWF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	N/A	Exceptions to Criteria	N/A
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status	N/A	Name	N/A
Nearest Downstream Public Water Supply Intake	Carlisle Borough		
PWS Waters	Conodoguinet Creek	Flow at Intake (cfs)	N/A
PWS RMI	35.96	Distance from Outfall (mi)	22.7

Changes Since Last Permit Issuance: None

**Compliance History**

Since the last permit reissuance in 2017, the permittee has failed to submit DMRs and AMRs. As a result, DEP issued two (2) Notice of Violation letters on June 19, 2019 and May 20, 2020 regarding failure to submit DMRs and AMR. Since then, the permittee has submitted DMRs. However; only limited number of DMRs is available for review at this time as shown below:

	Flow	TRC	CBOD5	TSS	Fecal		Flow	TRC	CBOD5	TSS	Fecal
Apr-20	10	0.3	<3.0	3	1	May-21	12	0.4	<3.0	<2.0	3900
Jun-20	No Discharge					Jul-21	No Discharge				
Jul-20	10	0.3	4.7	11	4	Aug-21		0.3	<0.3	3.2	0
Nov-20	18	0.1	<3.0	3.6	N/A	Sep-21		0.2	<3.0	2	6
Dec-20	15	0.09	<3.0	<2.0	26	Oct-21		0.4	<3.0	<2.0	0
Jan-21	8	0.02	<3.0	<2.0	7	Nov-21		0.03	<3.0	<2.0	40
Feb-21	10	0.03	<3.0	<2.0	400	Dec-21		0.3	<3.0	<2.0	280
Mar-21	8	0.04	<3.0	11	77	Apr-22		0.4	5	<3.0	382
Apr-21	8	0.2	<3.0	<2.0	0						

It is unclear whether the permittee has still failed to submit DMRs consistently or all submitted DMRs have not yet been recorded in the database. The cover letter for the last renewal required the permittee to register for eDMR which has not yet happened. The eDMR registration requirement will continue to be mentioned in the cover letter for this renewal, requiring the permittee to use eDMR to submit the DMRs and AMRs.

**Treatment Facility Information**

The facility is a small flow treatment facility (0.0006 MGD) serving a sportsmen club. The treatment system, according to the application, is as follows:

1,500-gallon two(2) compartment septic tank → 2,000-gallon dosing tank → EcoFlo STB-650 peat filter → 450-gallon chlorine contact tank with tablet chlorinator → Outfall to Conodoguinet Creek.

The Water Quality Management (WQM) Permit No. 2105401 was issued concurrently with the NPDES permit in 2005 (Planning Approval No. A3-21921-116-3s).

**Effluent Limitations and Monitoring Requirements**

The following are effluent limitations and monitoring requirements specified in the current permit:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
Total Residual Chlorine	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	1/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	1/month	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean			1/month	Grab

Given the history of noncompliance at this facility, the existing requirements will remain unchanged in the permit. Failure to submit required reports is non-compliance with permit conditions and causes a significant problem in reviewing facility performance and water quality impact in the receiving water. It is recommended that all existing effluent limits, except for TRC and fecal coliform, be maintained in the permit for further evaluation. DEP SOP no. BPNPSM-PMT-003 recommends TRC effluent limits be established in the permit for small flow treatment facilities when chlorine is used as a disinfection method. Pursuant to 25 Pa Code §92a.47(7), DEP currently regulates discharges of chlorinated wastewater by imposing a technology-based effluent limitation of 0.5 mg/L (30-daverage) which constitutes BAT. TRC\_CALC worksheet is used to determine if more stringent WQBEL is needed. The worksheet shows the BAT limit is acceptable and also recommends an instantaneous maximum effluent limit of 1.6 mg/L. Consequently, these TRC effluent limits will be included in the permit. A year round fecal coliform effluent limit of 200 CFU/100 mL will be included in the permit as recommended by DEP SOP. Ecoflow peat filter treatment system is designed to provide a year round effluent fecal coliform quality of 200 CFU/100 mL.

No nutrient monitoring requirement is recommended for this facility. Facilities that are designed based on a flow of less than or equal to 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements.

The discharge is located in a stream segment listed as attaining uses; therefore no TMDL has been taken into consideration during this review.

The discharge is to non-special protection waters/watershed. No HQ/EV waters are impacted by this discharge. The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

No Class A Wild Trout Fishery is impacted by this discharge. Considering dilution and distance from the intake, the discharge is not expected to affect the water supply.

**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) and/or BPJ.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
Total Residual Chlorine	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	1/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	1/month	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean			1/month	Grab

