

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0259951  
APS ID 601029  
Authorization ID 1458746

**Applicant, Facility and Project Information**

Applicant Name	<u>Jody O Bradley</u>	Facility Name	<u>Jody Bradley Properties</u>
Applicant Address	<u>3143 Schellsburg Road</u> <u>Claysburg, PA 16625-8316</u>	Facility Address	<u>3143 Schellsburg Road</u> <u>Claysburg, PA 16625-8316</u>
Applicant Contact	<u>Jody Bradley</u>	Facility Contact	<u>Jody Bradley</u>
Applicant Phone	<u>(814) 931-4025</u>	Facility Phone	<u>(814) 931-4025</u>
Client ID	<u>252920</u>	Site ID	<u>677959</u>
SIC Code	<u>8811</u>	Municipality	<u>Greenfield Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Blair</u>
Date Application Received	<u>October 17, 2023</u>	WQM Required	<u></u>
Date Application Accepted	<u>November 6, 2023</u>	WQM App. No.	<u>0706405</u>

**placeholders**

Project Description This is an application for NPDES renewal.

**Summary of Review**

The application submitted requests a NPDES renewal permit for the Jody Bradley Residence. The NPDES Permit will expire on May 31, 2024. The NPDES application has been processed as a Small Flow Treatment Facility (SFTF) due to the type of sewage and the design flow rate for the facility. The applicant disclosed the Act 14 requirement to Blair County Commissioners and Greenfield Township and the notice was received by the parties on approximately October 3, 2023. A planning approval letter was not necessary as the facility is neither new or expanding.

The purpose of this Fact Sheet is to present the basis of information used for establishing the proposed NPDES permit effluent limitations. The Fact Sheet includes the following information:

1. A description of the facility
2. Type and Quantity of Wastewater or Pollutants Evaluated in the Permit
3. Facility NPDES Compliance History
4. Receiving Waters and Water Supply Information Detail Summary
5. Development of Effluent Limitations and Monitoring Requirements
6. NPDES Parameter Details

The subject facility is a 0.0005 MGD (500 GPD) treatment facility. The applicant does not anticipate any proposed upgrades to the treatment facility in the next five years. The NPDES application has been processed as a Small Flow Treatment Facility due to the type of sewage and the design flow rate for the facility.

Utilizing the DEP's web-based Emap-PA information system, the receiving waters has been determined to be Tributary of 16667 of Smoky Run. The sequence of receiving streams that Tributary of 16667 discharges into are Beaverdam Creek, the Frankstown Branch Juniata River, the Juniata River, and the Susquehanna River which eventually drains into the Chesapeake Bay. The subject site is not subject to the Chesapeake Bay implementation requirements. The receiving water has protected

Approve	Deny	Signatures	Date
X		<i>Steven C. Roselle</i> Steven C. Roselle, P.E. / Environmental Engineer	December 20, 2023
X		<i>Daniel W. Martin</i> Daniel W. Martin, P.E. / Environmental Engineer Manager	December 22, 2023

### Summary of Review

water usage for cold water fishes (CWF) and migratory fishes (MF). No Class A Wild Trout fisheries are impacted by this discharge. The absence of high quality and/or exceptional value surface waters removes the need for an additional evaluation of anti-degradation requirements.

Tributary of 16667 of Smoky Run is a Category 2 stream listed in the 2016 Integrated List of All Waters (formerly 303d Listed Streams). This stream is an attaining stream that supports aquatic life. The receiving waters is not subject to a total maximum daily load (TMDL) plan to improve water quality in the subject facility's watershed.

The proposed permit will expire five (5) years from the effective date.

Based on the review in this report, it is recommended that the permit be drafted. 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.

Any additional information or public review of documents associated with the discharge or facility may be available at PA DEP Southcentral Regional Office (SCRO), 909 Elmerton Avenue, Harrisburg, PA 17110. To make an appointment for file review, contact the SCRO File Review Coordinator at 717.705.4700.

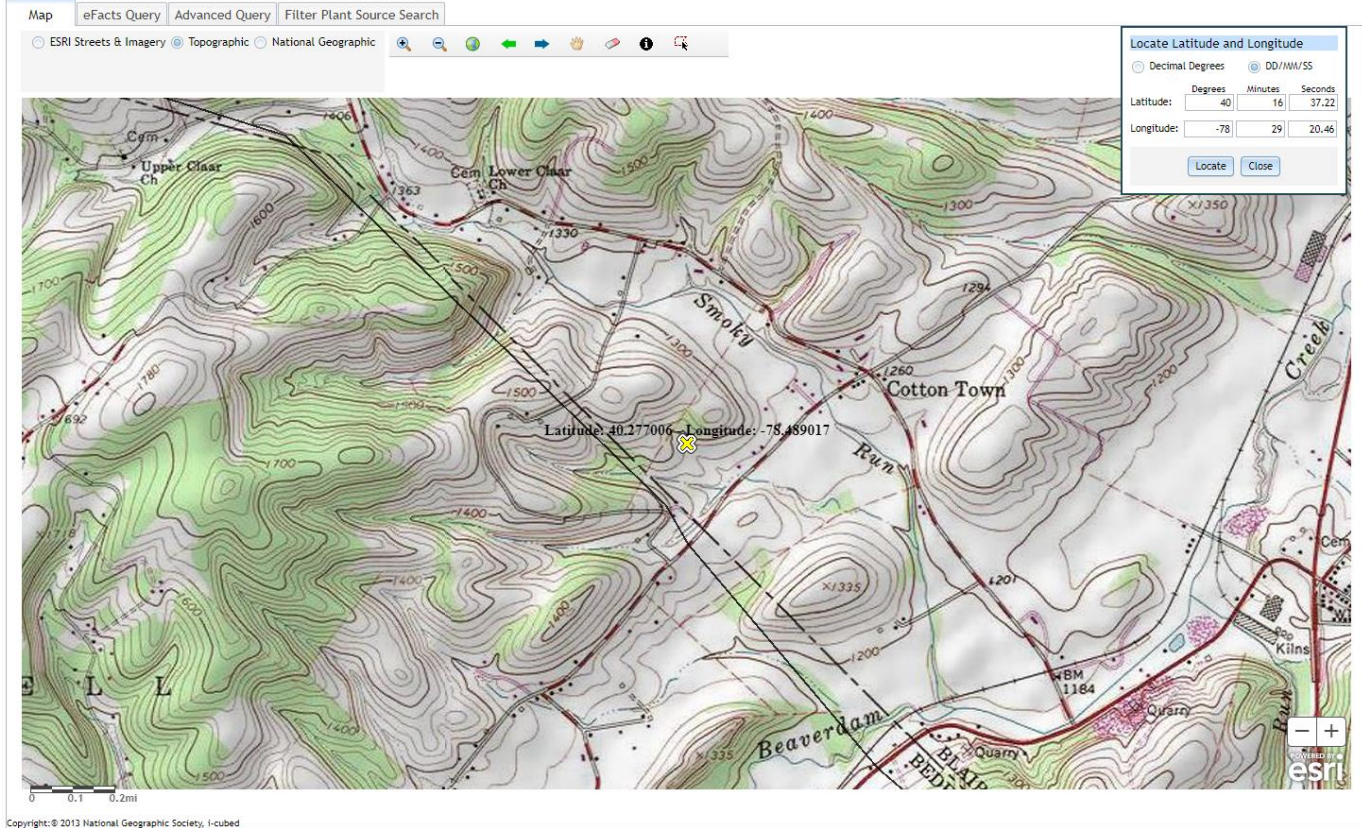
Jody Bradley Properties

# 1. Description of the Facility

## 1.1 Site location

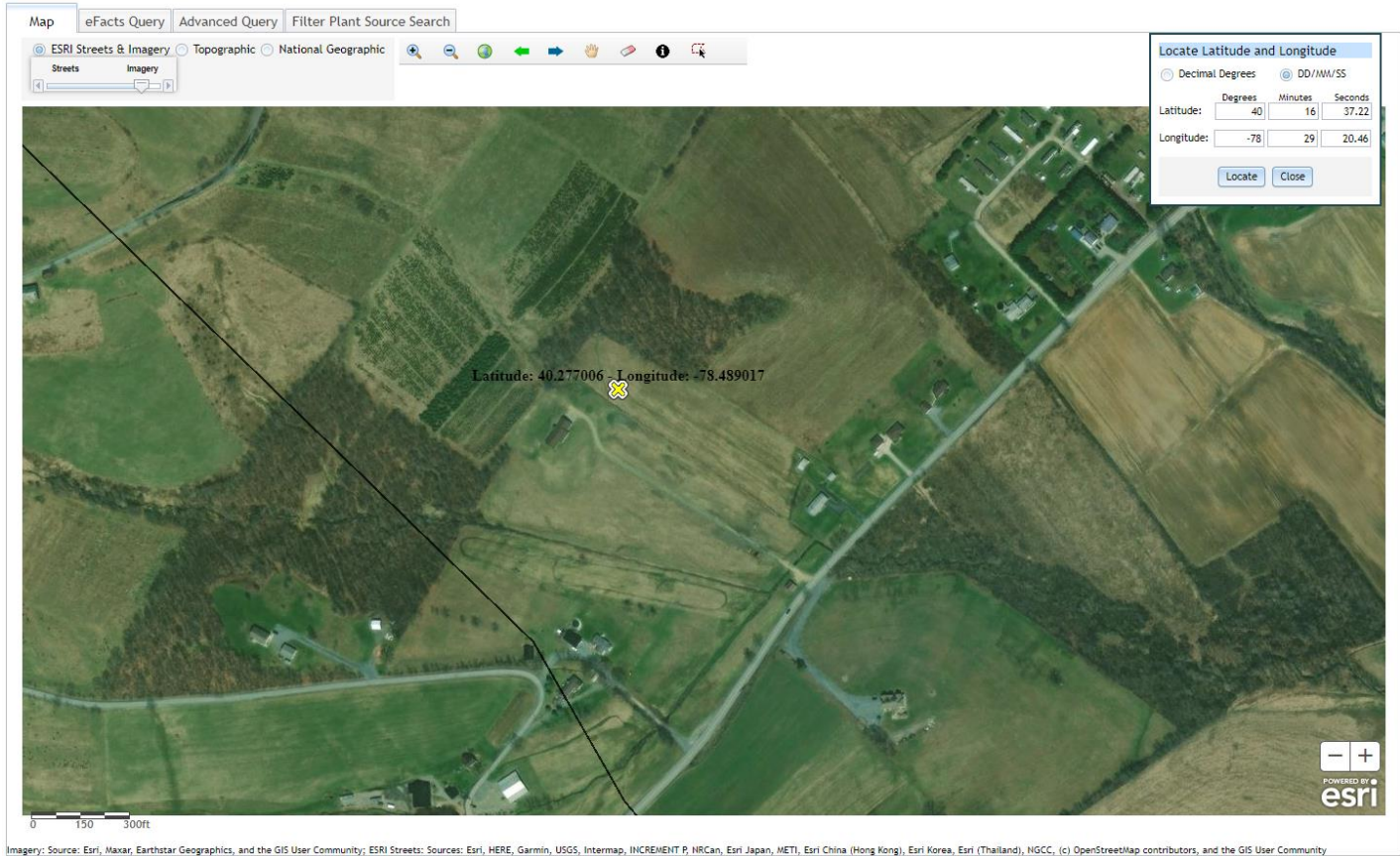
A topographical and an aerial photograph of the facility are depicted as Figure 1 and Figure 2.

Figure 1: Topographical map of the subject facility



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Figure 2: Aerial Photograph of the subject facility



**1.2 Description of Wastewater Treatment Process**

The subject facility is a 0.0005 MGD (500 GPD) design flow facility. The subject facility treats wastewater using a septic tank, a buried sand filter, and chlorine disinfection prior to discharge through the outfall. The facility is being evaluated for flow, pH, TRC, BOD, TSS and fecal coliform. The existing permits limits for the facility is summarized in Section 2.2.

The treatment process is summarized in the table.

Treatment Facility Summary				
Treatment Facility Name: Jody Bradley				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.0005
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
		Not Overloaded	Anaerobic Digestion	Combination of methods

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## 2. Type and Quantity of Wastewater or Pollutants Evaluated in the Permit

### 2.1 Facility Outfall Information

The facility has the following outfall information.

<b>Outfall No.</b>	<u>001</u>	<b>Design Flow (MGD)</b>	<u>.0005</u>
<b>Latitude</b>	<u>40° 16' 37.22"</u>	<b>Longitude</b>	<u>-78° 29' 20.46"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>			

The subject facility outfall is within the vicinity of another sewage/wastewater outfall. The downstream outfall is Greenfield Township Municipal Authority STP (PA0082848) which is about 1.6 miles from the subject facility.

### 2.2 Existing NPDES Permits Limits

The existing NPDES permit limits are summarized in the table.

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

I. A. For Outfall 001, Latitude 40° 16' 37.22", Longitude 78° 29' 20.46", River Mile Index 0.09, Stream Code 16667

Receiving Waters: Unnamed Tributary of Smoky Run

Type of Effluent: Sewage Effluent

1. The permittee is authorized to discharge during the period from **June 1, 2019** through **May 31, 2024**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

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 (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	Report Avg Mo	XXX	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	200 Avg Mo	XXX	XXX	XXX	1/year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
at Outfall 001

## 3.0 Facility NPDES Compliance History

### 3.1 Summary of Inspections

A summary of the most recent inspections during the existing permit review cycle is as follows.

**Jody Bradley Properties**

An inspection by DEP Inspector, Mr. Frederick D. Clark, was held on November 3, 2020. The DEP report indicates that the treatment system units were inspected by Dean Shuller, with Bedford County Sanitary Corporation, on June 17, 2020 and no problems were reported. The septic tank was pumped by Kem Wertz Hauling and Septic Service, Inc. on June 12, 2019.

**3.2 Summary of DMR Data**

**Summary of Monitoring Data 2022/2023**

Date Sampled	CBOD (mg/l)	TSS (mg/l)	Fecal (MPN/100 mL)	TRC (mg/l)
2/23/2022	<3	<1.6	<1	5.1
7/29/2022	<3	2.4	<1	1.21
2/27/2023	9.02	2.4	<2	<0.05
7/25/2023	6.22	20.0	88.4	0.19

**3.3 Non-Compliance**

**3.3.1 Non-Compliance- NPDES Effluent**

A summary of the non-compliance to the permit limits for the existing permit cycle is as follows:

The DMR data from 2022, and 2023 meets the permit limit expectations except for TSS on 7/25/2023. The Permittee considers this data point an anomaly which is not representative of the facility’s historical TSS data. The Permittee believes that the high TSS was the result of a dirty effluent weir. The weir was subsequently cleaned, and the Permittee reports this action has resulted, via visual observation, in a clearer effluent.

**3.3.2 Non-Compliance- Enforcement Actions**

A summary of the non-compliance enforcement actions for the current permit cycle is as follows:

There were no reported enforcement action for the time frame beginning 01/27/2019 – 11/06/2023.

**3.5 Open Violations**

No open violations existed as of 11/06/2023.

**4.0 Receiving Waters and Water Supply Information Detail Summary**

**4.1 Receiving Waters**

The receiving waters has been determined to be Tributary of 16667 of Smoky Run. The sequence of receiving streams that Tributary of 16667 discharges into are Beaverdam Creek, the Frankstown Branch Juniata River, the Juniata River, and the Susquehanna River which eventually drains into the Chesapeake Bay.

**4.2 Public Water Supply (PWS) Intake**

The closest PWS to the subject facility is Newport (PWS ID #7500022) located approximately 140 miles downstream of the subject facility on the Juniata River. Based upon the distance and the flow rate of the facility, the PWS should not be impacted.

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**4.3 Class A Wild Trout Streams**

Class A Wild Trout Streams are waters that support a population of naturally produced trout of sufficient size and abundance to support long-term and rewarding sport fishery. DEP classifies these waters as high-quality coldwater fisheries.

The information obtained from EMAP suggests that no Class A Wild Trout Fishery will be impacted by this discharge.

**4.4 2016 Integrated List of All Waters (303d Listed Streams):**

Section 303(d) of the Clean Water Act requires States to list all impaired surface waters not supporting uses even after appropriate and required water pollution control technologies have been applied. The 303(d) list includes the reason for impairment which may be one or more point sources (i.e. industrial or sewage discharges) or non-point sources (i.e. abandoned mine lands or agricultural runoff and the pollutant causing the impairment such as metals, pH, mercury or siltation).

States or the U.S. Environmental Protection Agency (EPA) must determine the conditions that would return the water to a condition that meets water quality standards. As a follow-up to listing, the state or EPA must develop a Total Maximum Daily Load (TMDL) for each waterbody on the list. A TMDL identifies allowable pollutant loads to a waterbody from both point and non-point sources that will prevent a violation of water quality standards. A TMDL also includes a margin of safety to ensure protection of the water.

The water quality status of Pennsylvania's waters uses a five-part categorization (lists) of waters per their attainment use status. The categories represent varying levels of attainment, ranging from Category 1, where all designated water uses are met to Category 5 where impairment by pollutants requires a TMDL for water quality protection.

**The receiving waters is listed in the 2022 Pennsylvania Integrated Water Quality Monitoring and Assessment Report as a Category 2 waterbody. The surface waters is an attaining stream that supports aquatic life. The designated use has been classified as protected waters for cold water fishes and migratory fishes.**

**4.5 Low Flow Stream Conditions:**

Water quality modeling estimates are based upon conservative data inputs. The data are typically estimated using either a stream gauge or through USGS web based StreamStats program. The NPDES effluent limits are based upon the combined flows from both the stream and the facility discharge.

A conservative approach to estimate the impact of the facility discharge using values which minimize the total combined volume of the stream and the facility discharge. The volumetric flow rate for the stream is based upon the seven-day, 10-year low flow (Q710) which is the lowest estimated flow rate of the stream during a 7 consecutive day period that occurs once in 10 year time period. The facility discharge is based upon a known design capacity of the subject facility.

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**4.6 Summary of Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0005</u>
Latitude	<u>40° 16' 37.22"</u>	Longitude	<u>-78° 29' 20.46"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Unnamed Tributary of Smoky Run</u>	Stream Code	<u>16667</u>
NHD Com ID	<u>65610690</u>	RMI	<u>0.09</u>
Drainage Area	<u>0.21</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.00382</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.00028</u>	Q <sub>7-10</sub> Basis	<u>StreamStats</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>11A</u>	Chapter 93 Class.	<u>Cold Water Fishes, Migratory Fishes</u>
Existing Use	<u>Same as Chapter 93</u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s) supports aquatic life</u>		
Cause(s) of Impairment	<u>Not appl.</u>		
Source(s) of Impairment	<u>Not appl.</u>		
TMDL Status	<u>Not appl.</u>	Name	<u></u>

Background/Ambient Data		Data Source	
pH (SU)	<u>Not appl.</u>		<u></u>
Temperature (°F)	<u>Not appl.</u>		<u></u>
Hardness (mg/L)	<u>Not appl.</u>		<u></u>
Other:	<u></u>		<u></u>

Nearest Downstream Public Water Supply Intake	<u>Newport</u>		
PWS Waters	<u>Juniata River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>13</u>	Distance from Outfall (mi)	<u>140</u>



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## 5. Development of Effluent Limitations and Monitoring Requirements

The proposed effluent limitations and monitoring requirements listed in section 6 of this fact sheet are unchanged from the current permit limits. The permit limits are derived from DEP’s Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003).

The subject facility treats wastewater using a septic tank, a buried sand filter, and chlorine disinfection prior to discharge through the outfall. Systems of this type have demonstrated that it can produce effluent CBOD5 and TSS of less than 10 mg/L as monthly averages. Therefore, the system should be, if installed properly, able to meet proposed effluent limits for both TSS and CBOD5. Based on a review of operating data, the system is capable of meeting these effluent limits if proper maintenance and operation is performed (i.e., periodic septic tank pumping, unit cleaning, and annual inspection).

Facilities that are designed based on a flow of less than 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monitoring.

## 6. NPDES Parameter Details

### 6.3 Summary of Proposed NPDES Effluent Limits

The proposed NPDES effluent limitations are summarized in the table below.

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS**

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Type of Effluent: Sewage Effluent

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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 (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	Report Avg Mo	XXX	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	200 Avg Mo	XXX	XXX	XXX	1/year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
at Outfall 001