

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0261653
APS ID 917282
Authorization ID 1371391

Applicant, Facility and Project Information

Applicant Name	<u>Carolyn Jackson & James Jackson</u>	Facility Name	<u>Jackson Res</u>
Applicant Address	<u>151 Shatto Drive</u> <u>Carlisle, PA 17013-2120</u>	Facility Address	<u>151 Shatto Drive</u> <u>Carlisle, PA 17013-2120</u>
Applicant Contact	<u>James Jackson</u>	Facility Contact	<u>James Jackson</u>
Applicant Phone	<u>(717) 608-1515</u>	Facility Phone	<u>(717) 608-1515</u>
Client ID	<u>328699</u>	Site ID	<u>748225</u>
SIC Code	<u>6514</u>	Municipality	<u>North Middleton Township</u>
SIC Description	<u>Fin, Ins & Real Est - Dwelling Operators, Except Apartments</u>	County	<u>Cumberland</u>
Date Application Received	<u>September 29, 2021</u>	WQM Required	<u>Issued</u>
Date Application Accepted	<u>October 6, 2021</u>	WQM App. No.	<u>2111401</u>
Project Description	<u>Renewal of an SRSTP permit for an existing treatment plant.</u>		

Summary of Review

The Pennsylvania Department of Environmental Protection (DEP) received an NPDES permit renewal application on September 29, 2021 for a single residence sewage treatment plant (SRSTP) located in North Middleton Township, Cumberland County. The permit was originally issued on September 12, 2011.

This SRSTP serves a three (3)-bedroom single family residence located at 151 Shatto Drive, Carlisle PA 17013. The treatment process is as follows:

A 1,250-gallon dual compartment septic tank with a Polylok PL-525 filter → STB-650 EcoFlo Peat Filter → a 250-gallon chlorine contact tank with a tablet chlorinator → Discharge to Conodoguinet Creek.

The Water Quality Management (WQM) Permit was issued on July 26, 2011 (no. 2111401). The planning module was approved a revision to the Act 537 Official Sewage Facilities Plan of North Middleton Township on March 22, 2011 (No. A3-21920-227-3s). There has not been any modification to the facility since the issuance of the WQM permit.

These proposed effluent limits were derived from DEP's SOP, *New and Reissuance Individual SFTF NPDES Permits* (No. BCW-PMT-003). Since the facility is capable of meeting tertiary treatment limits, BOD5 and TSS limits of 10 mg/L (AML) and 20 mg/L (IMAX) will be imposed in the permit (CBOD5 has changed to BOD5). A monthly monitoring requirement for Total Residual Chlorine will still be included in the permit as recommended by the SOP. Instead of seasonal limits, a year-round limit of 200 / 100mL of Fecal Coliform will be imposed in the permit.

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*,

Approve	Deny	Signatures	Date
X		<i>Jared Lescavage</i> Jared Lescavage / Project Manager	January 6, 2022
x		<i>Scott M Arwood</i> Scott M. Arwood, P.E. / Environmental Engineer Manager	1/6/2022

Summary of Review

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.

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>.0004</u>
Latitude	<u>40° 13' 30.61"</u>	Longitude	<u>-77° 12' 55.16"</u>
Quad Name	<u>Carlisle</u>	Quad Code	<u>1728</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Conodoguinet Creek (WWF)</u>	Stream Code	<u>10194</u>
NHD Com ID	<u>56406381</u>	RMI	<u>39.72</u>
Drainage Area	<u>370</u>	Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)	<u>46.2</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)		Slope (ft/ft)	
Watershed No.	<u>7-B</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>Organic Enrichment</u>		
Source(s) of Impairment	<u>Unknown</u>		
TMDL Status		Name	
Background/Ambient Data		Data Source	
pH (SU)			
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Public Water Supply Intake	<u>Carlisle Borough</u>		
PWS Waters	<u>Conodoguinet Creek</u>	Flow at Intake (cfs)	<u>48</u>
PWS RMI	<u>35.95</u>	Distance from Outfall (mi)	<u>2.8</u>

Changes Since Last Permit Issuance: The requirement for pH sampling was previously removed in the last permit due to the requirement being removed from the SOP. However, it is recommended that all SRSTP and SFTF permits retain the requirement for pH sampling, therefore it has been re-introduced into the NPDES permit.

Other Comments: N/A

Compliance History	
Summary of DMRs:	All DMRs submitted have been accepted with no deficiencies.
Summary of Inspections:	N/A

Other Comments: Drainage Area

The discharge is to Conodoguinet Creek at RMI 38.84. A drainage area upstream of the discharge point is estimated to be 370 mi² according to the USGS PA StreamStats (<http://water.usgs.gov/osw/streamstats/pennsylvania.html>).

Streamflow

The stream flow at point of discharge was estimated to be 46.1ft³/s based on the USGS PA StreamStats.

Public Water Supply

The nearest downstream public water supply intake is Carlisle Borough on the Conodoguinet Creek, located approximately 2.8 miles from the discharge point. Based on dilution and nature of discharge, the discharge is not expected to affect the water supply intake.

303 (d) List

The discharge is located in a stream segment listed as non-attaining uses.

Class A Wild Trout Stream

No Class A Wild Trout Fishery is impacted by this discharge.

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	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	Report Avg Mo	XXX	XXX	Report	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
pH (S.U.)	XXX	XXX	5.0	XXX	XXX	9.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: N/A