

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0266035  
APS ID 1046132  
Authorization ID 1366327

**Applicant, Facility and Project Information**

Applicant Name	<u>Doris K Lerew</u>	Facility Name	<u>Kendor Summit Lots 15i &amp; 16i</u>
Applicant Address	<u>656 Latimore Road</u> <u>York Springs, PA 17372-9775</u>	Facility Address	<u>Shatto Drive</u> <u>Carlisle, PA 17013</u>
Applicant Contact	<u>Doris Lerew</u>	Facility Contact	<u>Doris Lerew</u>
Applicant Phone	<u>(717) 512-6648</u>	Facility Phone	<u>(717) 512-6648</u>
Client ID	<u>365046</u>	Site ID	<u>790135</u>
SIC Code	<u>4952</u>	Municipality	<u>North Middleton Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Cumberland</u>
Date Application Received	<u>August 23, 2021</u>	WQM Required	<u>Issued</u>
Date Application Accepted	<u>August 27, 2021</u>	WQM App. No.	<u>2115403 T-1</u>
Project Description	<u>Renewal application for a small flow sewage treatment system.</u>		

**Summary of Review**

This report supports the reissuance of NPDES and WQM permits for discharge of treated sewage from the single residence sewage treatment plant (SRSTP) located in North Middleton Township, Cumberland County. The Department received renewal NPDES and WQM permit applications on August 23, 2021 by Marshall Engineering on behalf of Mr. Albert C. Kuhn and Doris K. Lerew. Individual NPDES and WQM permits are required since the discharge will be from the facility other than those addressed in the Department's technical guidance no. 362-0300-002.

Along with the renewal of this NPDES application, the NPDES and WQM permit are also being transferred to Doris K. Lerew.

Based on the review outlined in this fact sheet, it is recommended that the NPDES permit be drafted and published in the PA Bulletin for public comments for 30 days. A brief review of the Water Quality Management (WQM) permit application will be discussed later in this fact sheet.

Drainage Area

The discharge will be to Conodoguinet Creek at RMI 39.99. A drainage area upstream of the proposed discharge point is determined to be 370 sq.mi. based on USGS PA StreamStats (<http://water.usgs.gov/osw/streamstats/pennsylvania.html>).

Streamflow

Q7-10 of is determined at the proposed discharge point. This Q7-10 was directly taken from the USGS PA StreamStats.

Public Water Supply

Although the nearest downstream intake, Carlisle Borough Municipal Authority, is located about 4.0 miles from the proposed discharge point, the discharge is not expected to significantly impact the intake considering its quantity and dilution with Conodoguinet Creek.

Approve	Deny	Signatures	Date
X		<i>Jared Lescavage</i> Jared Lescavage / Project Manager	January 11, 2022
x		<i>Scott M Arwood</i> Scott M. Arwood, P.E. / Environmental Engineer Manager	01/12/2022

**Summary of Review**

303(d) List

The discharge will be located in a stream segment listed as attaining uses.

Compliance History

No Compliance History is available as the facility has not been built yet.

Treatment Facility Summary

The development of single family residence was proposed at Kendor Summit lots 15i & 16i that are owned by Mr. Albert Kuhn. There is one pin number associated with these lots (29-17-1576-169). Within these lots, a treatment system will be constructed to serve a 4-bedroom single residence. This system will consist of a 1,500-gallon two-compartment septic tank with an effluent filter (Orenco FT5044-36V), 500-gallon Orenco Advantex filter AX-20RTUV including UV disinfection, and an outfall structure. This Orenco model is designed for flows up to 500 GPD. The Orenco AdvanTex system was approved and classified by the Department as an alternate on-lot sewage treatment system which demonstrated the ability of the system to achieve secondary treatment. According to the manufacturer's design specifications, the proposed Orenco AdvanTex Treatment System will be able to achieve effluent BOD5 and TSS concentration levels of 10 mg/L or less. UV radiation at a level of 254 nanometers will be applied at a minimum dosage of 30,000 microwatt-seconds per square centimeter.

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.

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>.0005</u>
Latitude	<u>40° 13' 19.06"</u>	Longitude	<u>-77° 12' 54.67"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Conodoguinet Creek (WWF, MF)</u>	Stream Code	<u>10194</u>
NHD Com ID	<u>56406381</u>	RMI	<u>39.99</u>
Drainage Area	<u>370 sq.mi.</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.125</u>
Q <sub>7-10</sub> Flow (cfs)	<u>46.1</u>	Q <sub>7-10</sub> Basis	<u>USGS PA StreamStats</u>
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>7-B</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>N/A</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)	_____		_____
Temperature (°F)	_____		_____
Hardness (mg/L)	_____		_____
Other:	_____		_____
Nearest Downstream Public Water Supply Intake	<u>Carlisle Borough Municipal Authority</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>4.0</u>

Changes Since Last Permit Issuance: The addition of pH into the permit limits, as it was not required at time of issuance of the new permit, but has been made a requirement of the SFTF/SRSTP permits.

Other Comments: None

<b>Compliance History</b>	
<b>Summary of DMRs:</b>	None since the house has yet to be constructed as of August 2021.
<b>Summary of Inspections:</b>	None

Other Comments: **N/A**

**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	Daily Maximum	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	XXX	5.0 Annl Avg	9.0 Annl Avg	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	10.0 Annl Avg	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Annl Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: N/A