

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0245275  
APS ID 1031740  
Authorization ID 1342088

**Applicant, Facility and Project Information**

Applicant Name	<u>Patricia A McVey &amp; Alan S McVey</u>	Facility Name	<u>226 Valley Green Dr STP</u>
Applicant Address	<u>226 Valley Green Drive</u> <u>Coatesville, PA 19320</u>	Facility Address	<u>226 Valley Green Drive</u> <u>Coatesville, PA 19320</u>
Applicant Contact	<u>Patricia McVey</u>	Facility Contact	<u>Patricia McVey</u>
Applicant Phone	<u>(484) 356-5860</u>	Facility Phone	<u>(484) 356-5860</u>
Client ID	<u>360874</u>	Site ID	<u>847476</u>
SIC Code	<u>4952</u>	Municipality	<u>West Caln Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Chester</u>
Date Application Received	<u>January 29, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>Not Applicable</u>	WQM App. No.	<u>1521401</u>
Project Description	<u>New permit application for SRSTP.</u>		

**Summary of Review**

The applicant requests a new, individual National Pollutant Discharge Elimination System (NPDES) permit for a single residence. The existing dwelling has a malfunctioning on-lot septic system thus a new treatment facility and discharge are proposed to replace the failing system. The discharge will be to an Un-Named Tributary to Rock Run, which then flows to the West Branch Brandywine Creek. The applicant submitted a permit application for a Water Quality Management (WQM) construction and operation permit at the same time as this NPDES application. The proposed facility will consist of a dual chambered septic tank with effluent filter followed by an Orenco Advantex® Treatment System treatment pod, followed by a UV disinfection unit then gravity discharge to the outfall.

The permit limits in this permit are consistent with the Standard Operating Procedures New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications, SOP No. BCW-PMT-003, Revised May 17, 2019, Version 1.8. The monitoring frequency are 1/year for all parameters except for monitoring of the UV system which is 1/month. The sample type is grab samples for all parameters except for flow which is "estimate". pH and ammonia are added to the permit limits as these are standard parameters in individual permits. Total Nitrogen and Total Phosphorous monitoring were added due to the facility being located in the Christina River Basin which has a Total Maximum Daily Load (TMDL) for those parameters. This facility is not directly listed in the TMDL, but the TMDL was evaluated for parameters and limits for permitted facilities which were similar to this facility (i.e. SRSTP).

A Plan 537 revision was approved by the DEP on November 6, 2020 (DEP Code No. 1-15961-738-3s). The revision was for this small flow facility with a discharge of 500 gallons per day (gpd) to an un-named tributary to Rock Run.

Act 14 Notification:  
Chester County December 29, 2020  
West Caln Township December 29, 2020

Approve	Deny	Signatures	Date
X		Harmonie Hawley, PhD, PE / Environmental Engineering Specialist /s/	February 17, 2021
X		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	02/18/2021

### Summary of Review

#### 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.

#### Proposed Part C Conditions:

- A. AMR to DEP
- B. DMR to DEP if Attached
- C. 1/year Measure Depth of Septage and Scum
- D. Septic Tanks Pumped Once Every Three Years
- E. Total Residual Chlorine Requirement<sup>63</sup>
- F. No Stormwater
- G. Necessary Property Rights
- H. Proper Sludge Disposal
- I. Abandon STP when Municipal Sewers Available

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>39° 59' 25"</u>	Longitude	<u>-75° 53' 31"</u>
Quad Name	<u>Parquesburg</u>	Quad Code	<u>1938</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of West Branch Brandywine Creek (TSF, MF)</u>	Stream Code	<u>00206 (Rock Run)</u>
NHD Com ID	<u>26098324</u>	RMI	<u>0.7000</u>
Watershed No.	<u>3-H</u>	Chapter 93 Class.	<u>TSF, MF</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>Not Applicable</u>		
Source(s) of Impairment	<u>Not Applicable</u>		
TMDL Status	<u>Final</u>	Name	<u>Christina River Basin</u>
Nearest Downstream Public Water Supply Intake		<u>None on the UNT</u>	

Changes Since Last Permit Issuance: None, new permit.

Other Comments: The discharge is to an Un-named Tributary to Rock Run, to Rock Run, to West Branch Brandywine Creek.

<b>Compliance History</b>	
<b>Summary of DMRs:</b>	Not Applicable
<b>Summary of Inspections:</b>	Not Applicable

Other Comments: New NPDES permit and new treatment facility so no inspections or sample results.

**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	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
CBOD5	XXX	XXX	XXX	10.0	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	XXX	XXX	1/year	Grab
UV Intensity (mW/cm <sup>2</sup> )	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	10.0	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None