

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0294128  
APS ID 1089475  
Authorization ID 1441515

**Applicant, Facility and Project Information**

Applicant Name	<u>William &amp; Lindsay Cartmell</u>	Facility Name	<u>Cartmell Property</u>
Applicant Address	<u>112 Powder Mill Hollow Road</u> <u>Boyertown, PA 19512-8677</u>	Facility Address	<u>112 Powder Mill Hollow Road</u> <u>Boyertown, PA 19512-8677</u>
Applicant Contact	<u>William &amp; Lindsay Cartmell</u> <u>(610) 787-1386 /</u> <u>QUARRY80@HOTMAIL.COM</u>	Facility Contact	<u>William &amp; Lindsay Cartmell</u>
Applicant Phone	<u>377509</u>	Facility Phone	<u>(610) 787-1386</u>
Client ID	<u>8811</u>	Site ID	<u>858002</u>
SIC Code	<u>Services - Private Households</u>	Municipality	<u>Colebrookdale Township</u>
SIC Description	<u>May 23, 2023</u>	County	<u>Berks</u>
Date Application Received	<u>June 16, 2023</u>	WQM Required	<u>Application submitted</u>
Date Application Accepted	<u>New SRSTP to replace a holding tank.</u>	WQM App. No.	<u>0623403</u>
Project Description			

**Summary of Review**

The NPDES permit application was received on May 23, 2023 along with a WQM permit application using DEP's OnBase electronic document upload system, Reference ID # 109046. The proposed means of disinfection in the WQM permit application is Ultraviolet radiation (UV).

The new Single Residence Sewage Treatment Plant (SRSTP) is designed for 0.0004 MGD and will discharge treated wastewater to an unnamed tributary of Ironstone Creek. DEP Sewage Planning Approval was issued September 27, 2022: A3-06927-180-3S.

The limits in the draft permit are consistent with DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications and with other NPDES permits issued for SRSTPs. (The SOP instructs to not perform modeling and to not require UV monitoring in the limits tables for SRSTP draft permits).

Note:  
DEP's general permit PAG-04 for Small Flow Treatment Facilities expired but was administratively extended until November 11, 2023. No facilities, however, that were not already covered by the existing PAG-04 can receive new coverage under the administratively extended PAG04.

Public Participation

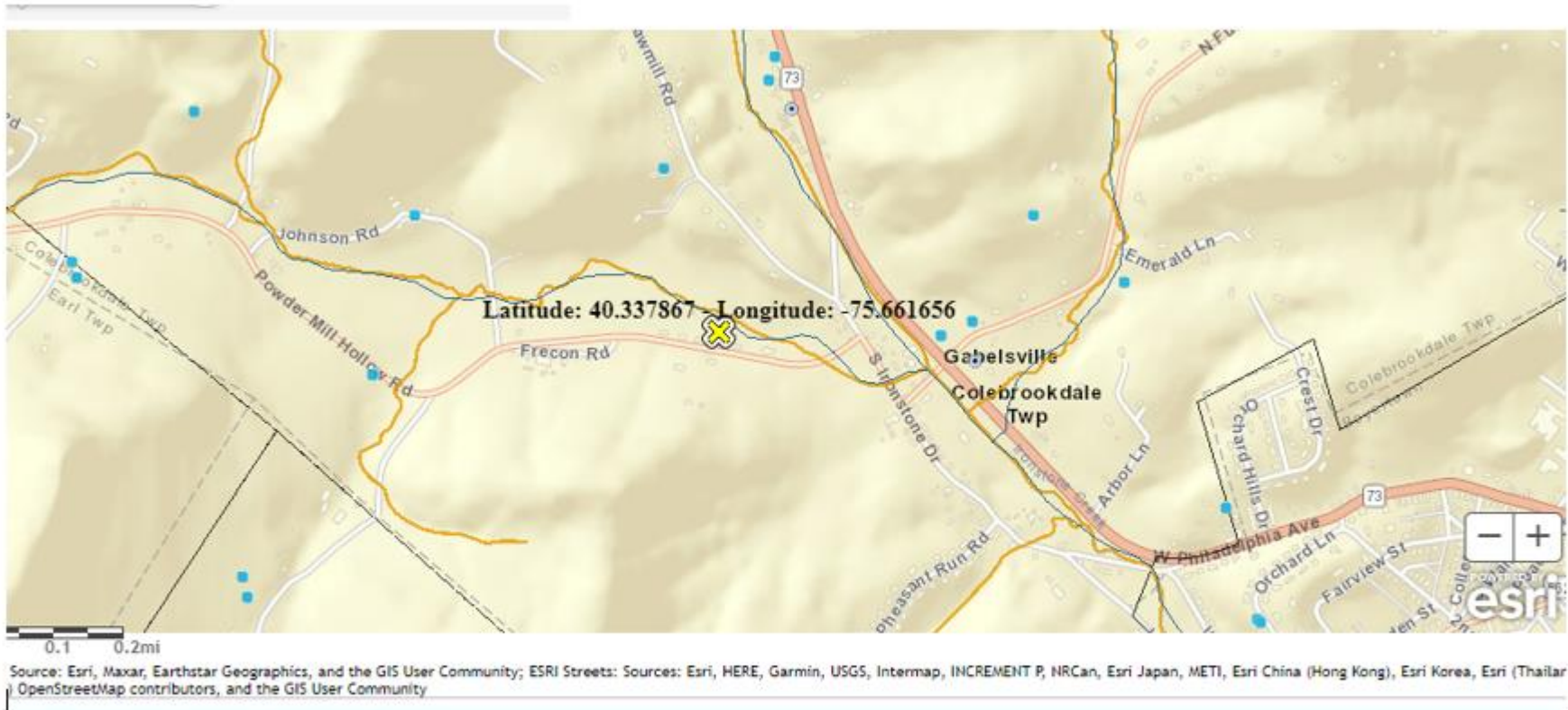
DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested 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		Bonnie Boylan Bonnie Boylan / Environmental Engineering Specialist	July 14, 2023
x		Maria D. Bebenek for Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	July 18, 2023

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° 20' 16" (per application)</u>	Longitude	<u>-75° 39' 42" (per application)</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Ironstone Creek (CWF (existing use))</u>	Stream Code	<u>01664</u>
NHD Com ID	<u>25964958</u>	RMI	<u>0.33</u>
Drainage Area	<u></u>	Yield (cfs/mi <sup>2</sup> )	<u></u>
Q <sub>7-10</sub> Flow (cfs)	<u></u>	Q <sub>7-10</sub> Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-D</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>CWF(COLD WATER FISHES)*</u>	Existing Use Qualifier	<u>Coldwater Community</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Impaired for Recreational Use according to eMapPA online tool</u>		
Cause(s) of Impairment	<u>Pathogens</u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>none</u>	Name	<u></u>
Secondary Water: UNT 01664 enters Ironstone Creek at RMI 5.5			
Background/Ambient Data		Data Source	
pH (SU)	<u></u>		<u></u>
Temperature (°F)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake <u></u>			
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

\*DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use under 25 Pa. Code § 93.9. In developing the draft NPDES permit, DEP is proposing to protect the existing use of the receiving waters. Following DEP's notice of the receipt of the application and the draft permit in the Pennsylvania Bulletin, DEP will accept written comments during the public comment period regarding DEP's tentative determination to protect the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.



Cartmell SRSTP, streams, and wells in vicinity

**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 and Best Professional Judgement. Instantaneous Maximum (IMAX) limits are generally 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
BOD5	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	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: after all treatment