

Application Type Renewal  
Facility Type Non-Municipal  
Major / Minor Minor

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0062316  
APS ID 789380  
Authorization ID 1478640

### Applicant and Facility Information

Applicant Name <u>Cresson Point Properties LLC</u>	Facility Name <u>Blue Mountain Village Community</u>
Applicant Address <u>1200 Blue Mountain Circle</u> <u>Saylorsburg, PA 18353-7742</u>	Facility Address <u>1249 Blue Mountain Circle</u> <u>Saylorsburg, PA 18353</u>
Applicant Contact <u>Amber Pfeffer</u>	Facility Contact <u>Craig Labarre</u>
Applicant Phone <u>(610) 674-7499</u>	Facility Phone <u>(570) 897-7474</u>
Client ID <u>298023</u>	Site ID <u>49065</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Ross Township</u>
Connection Status <u></u>	County <u>Monroe</u>
Date Application Received <u>March 28, 2024</u>	EPA Waived? <u>Yes</u>
Date Application Accepted <u>April 11, 2024</u>	If No, Reason <u></u>
Purpose of Application <u>Renewal of NPDES permit to discharge treated sewage effluent.</u>	

### Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge 0.0375 MGD of treated sewage to Aquashicola Creek, a High Quality-Cold Water Fishes, Migratory Fishes (HQ-CWF, MF) receiving stream in State Water Plan Basin 2-B (Middle Lehigh River). This discharge is not expected to affect public water supplies.

As per the Department's current existing use list, the receiving stream does have an existing use classification that is more protective than its designated use. The stream has been designated Exceptional Value, Migratory Fishes (EV, MF). There are no planned upgrades or additional discharge from this facility, thus a new Anti-Degradation Module 1 is not required.

Aquashicola Creek is designated by the PA Fish & Boat commission as an adult trout stocking stream. Stockings on this stream occur roughly 6.5 miles downstream of this outfall for this facility. The discharge from this facility is not expected to affect this event.

This facility is not associated with a DRBC docket.

The system for this facility is extended aeration with a final clarifier and post aeration. Chlorine tablets are used for disinfection. There are no other chemical additives listed for this facility.

There are no representative stream gages in the vicinity of the outfall. A standard low flow yield (LFY) of 0.1 cfs/mi<sup>2</sup> was used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

Limitations for pH, CBOD<sub>5</sub>, Total Suspended Solids, Ammonia-Nitrogen, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen are water quality-based and carried over from the previous permit. WQM modeling did not recommend stricter limitations for Ammonia-Nitrogen.

Approve	Deny	Signatures	Date
X		<i>William Hon</i> William Hon / Environmental Engineer Specialist	February 19, 2025
X		<i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager	February 19, 2025

### Summary of Review

Limitations for Total Kjeldahl Nitrogen, Nitrate-Nitrite as N, Total Nitrogen, Total Phosphorus, and Dissolved Oxygen (DO) are existing permit limits supported by water quality modeling and will remain.

Limitation for Total Aluminum is retained in permit due to use of aluminum per NPDES Permit Application form and previous permit fact sheet with discharge to HQ stream. Limitation for Total Dissolved Solids (TDS) is also retained in this permit.

Since the previous permit was issued, TRC technology-based limitation has been updated. The current average monthly limitation is 1.2mg/L and IMAX is 2.8mg/L. The new TBEL for TRC for this size facility is an average monthly of .5mg/L and IMAX of 1.6mg/L. Modeling for TRC did not recommend more stringent limitations. These new TBELs will come into effect three (3) years after permit issuance. Included in Part C of the permit will be a schedule of compliance and TRC minimization.

E. Coli monitoring requirements will be introduced into new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05 MGD discharge is found in the SOP for establishing effluent limitations for individual sewage.

All self-monitoring requirements for limitations have been verified to reflect Table 6-3 of the Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits Manual. eDMR history shows little-to-no history of non-compliance with effluent limitations. All monitoring frequencies will be retained in this permit cycle.

No additional degradation is expected in the absence of any new or increased or additional stream loading. Aluminum monitoring would detect over-usage of alum wastewater treatment chemical. No known stream impairment at discharge location.

All dry sludge from this facility gets hauled by way of an independent contractor to Lehigh County Authority. This facility does not accept hauled-in waste.

The existing permit expired on 9/30/2024 and the application for renewal was received on time. The previous inspection at this facility was an Administrative/File Review performed on 1/27/2025 that resulted in one (1) NOVs. There are currently two (2) open violations for this facility:

- 12/28/2023 - Operator Certification - Failure to submit annual system fee
- 1/9/2025 - Operator Certification - Failure to submit annual system fee

Recommend approval.

Modeling Inputs:

Pt1 @ Outfall 001

Stream: Aquashicola Creek, 3776. RMI: 1

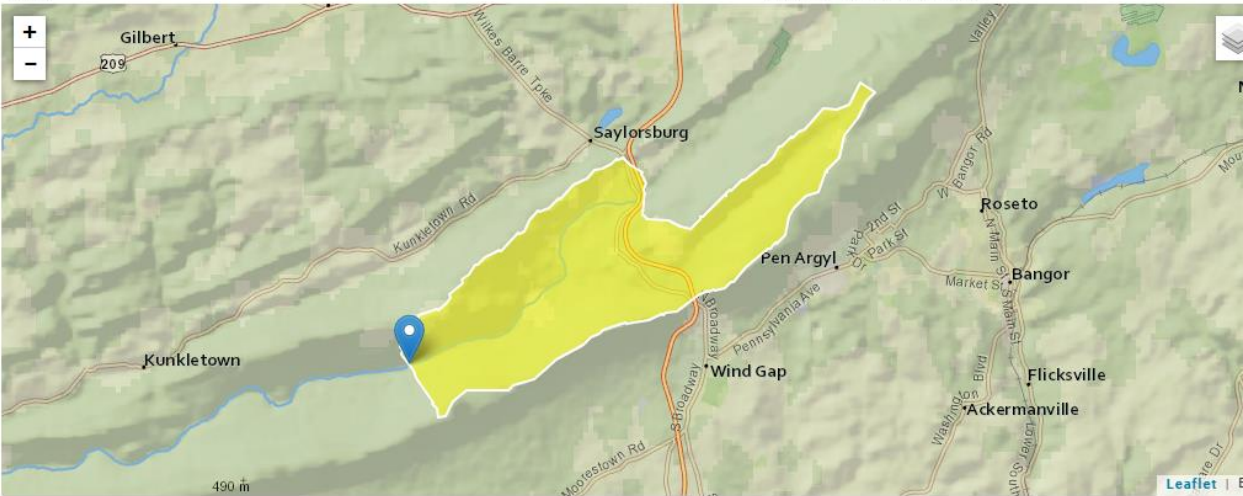
Summary of Review

Clicked Point (Latitude, Longitude):

40.84828, -75.37434

Time:

2025-02-13 11:13:38 -0500



Collapse All

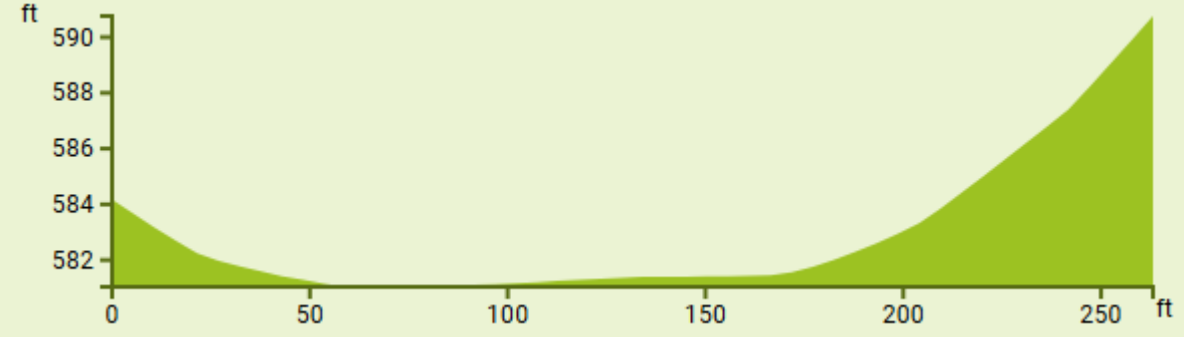
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	9.89	percent
DRNAREA	Area that drains to a point on a stream	10.6	square miles

Low-Flow Statistics Flow Report [Low Flow Region 2]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, P: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	3.7	ft^3/s	38	38
30 Day 2 Year Low Flow	4.54	ft^3/s	33	33
7 Day 10 Year Low Flow	2.08	ft^3/s	51	51



Pt. 2 @ start of small lake on Aquashicola Creek approx. 1 mile away  
RMI: .01

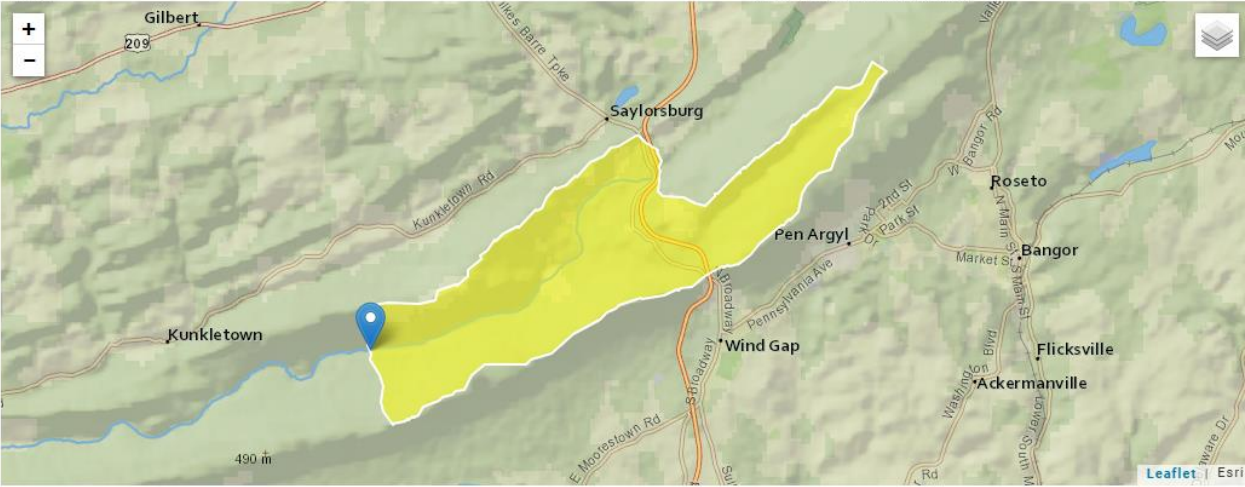
Summary of Review

Clicked Point (Latitude, Longitude):

40.84571, -75.39089

Time:

2025-02-13 11:29:58 -0500



+ Collapse All

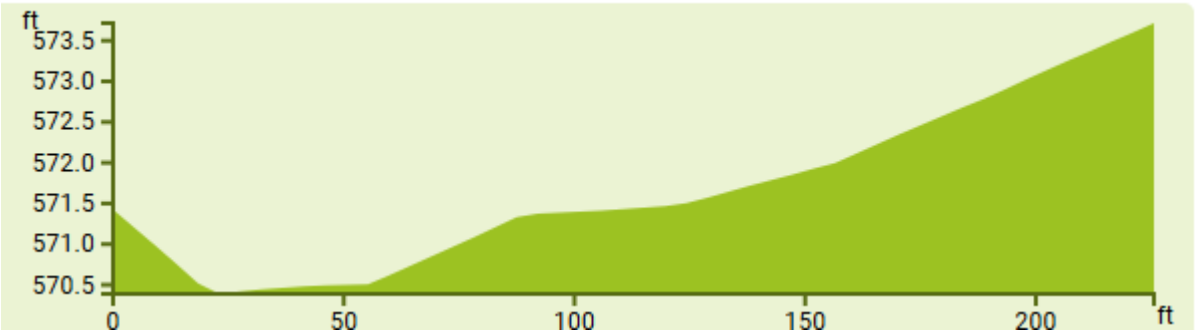
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	10.22	percent
DRNAREA	Area that drains to a point on a stream	12.1	square miles

Low-Flow Statistics Flow Report [Low Flow Region 2]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	3.95	ft^3/s	38	38
30 Day 2 Year Low Flow	4.85	ft^3/s	33	33
7 Day 10 Year Low Flow	2.22	ft^3/s	51	51



Summary of Review

Analysis Results WQM 7.0

Hydrodynamics

NH3-N Allocations

D.O. Allocations

D.O. Simulation

Effluent Limitations

RMI

Discharge Name

Permit Number

Disc Flow (mgd)

1.00

Blue Mount Vill

PA0062316

0.0375

Parameter

Effluent Limit 30 Day Average (mg/L)

Effluent Limit Maximum (mg/L)

Effluent Limit Minimum (mg/L)

CBOD5

25

NH3-N

25

50

Dissolved Oxygen

3

Record: 14

1 of 1

No Filter

Search

L7/10 used for TRC based on Streamstats statistic @ outfall 001

TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
2.08	= Q stream (cfs)	0.5	= CV Daily		
0.0375	= Q discharge (MGD)	0.5	= CV Hourly		
30	= no. samples	1	= AFC_Partial Mix Factor		
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor		
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)		
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)		
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)		
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 11.457		1.3.2.iii	WLA cfc = 11.162
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 4.269		5.1d	LTA_cfc = 6.489
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.635			

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

Summary of Review

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		<i>William Hon</i> William Hon / Environmental Engineer Specialist	February 19, 2025
X		<i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager	February 19, 2025