

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0029416
APS ID 793385
Authorization ID 1479666

Applicant and Facility Information

Applicant Name <u>Newbury LLC</u>	Facility Name <u>Camp Weequahic</u>
Applicant Address <u>1340 Founders Lake Drive</u> <u>Athens, GA 30606-7641</u>	Facility Address <u>210 Woods Road Camp Weequahic</u> <u>Lakewood, PA 18439-3945</u>
Applicant Contact <u>Cole Kelly</u>	Facility Contact <u>Cole Kelly</u>
Applicant Phone <u>(561) 296-1001</u>	Facility Phone <u>(570) 798-2788</u>
Client ID <u>298929</u>	Site ID <u>442198</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Preston Township</u>
Connection Status <u></u>	County <u>Wayne</u>
Date Application Received <u>April 8, 2024</u>	EPA Waived? <u>Yes</u>
Date Application Accepted <u>April 11, 2024</u>	If No, Reason <u></u>

Purpose of Application Renewal of existing NPDES permit to discharge treated sewage effluent.

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.021 MGD of treated sewage into Tributary 6537 to Equinunk Creek, a High Quality, Cold-Water Fishery, Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 1-A (Shehawken – Rattlesnake Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

The system for this facility is primary treatment via settling tanks, followed by a two-stage aerated lagoon system, a phosphorus removal system, and uses UV for disinfection. Chemicals added in this system are Soda Ash (Alk Addition) and Ferric Chloride (Phosphorus Removal). Sodium Hypochlorite and Sodium Sulfite are added in case UV disinfection is not available for disinfection and dechlorination purposes. This facility is a summer camp and only is used in the summer months.

A Point of First Use Survey was conducted on April 17, 2019 on Tributary 6537 to Equinunk Creek to verify the point of first use for Camp Weequahic's Wastewater Treatment Facility. This survey determined that the lagoon treatment system discharges into a small, grassy, ephemeral channel which eventually meets another well-defined stream channel. This stream channel is an upstream continuation of Unnamed Tributary 6537 to Equinunk Creek, which officially originates at the outlet of Sly Lake. It was determined the point of first use should be considered where the discharge channel meets this tributary (approximately 350 ft upstream of Sly Lake). The previous permit considered Sly Lake itself as the receiving water for the effluent discharge.

The state-wide default low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. There are no representative stream gages in the vicinity of the outfall. RMI values were obtained using the Department's eMapPA, drainage areas were

Approve	Deny	Signatures	Date
X		<i>William Hon</i> William Hon / Environmental Engineer Specialist	April 1, 2025
X		<i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager	April 2, 2025

Summary of Review

delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

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

Monitoring requirements for Total Phosphorus are retained in this permit cycle. Requirement is based on a Sly Lake TSI Survey.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. Annual monitoring and reporting for Total Nitrogen, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N have been maintained in this permit. Limitations for Ammonia-Nitrogen and TRC are water-quality based effluent limits and are carried over from the previous permit. Language for monitoring frequency for TRC is updated to say "Daily While Discharging" due to UV disinfection.

Modeling performed recommended more strict limitations for Dissolved Oxygen. The previous permit limitation was based on BPJ. WQM modeling recommended a minimum limitation of 7.0mg/L, up from the BPJ limit of 4.0mg/L. The permittee will be required to meet the new water quality-based limits for DO starting three years after the effective date of the permit (see Part C.III.). DO limitations from the previously issued permit are in effect for the first three years after the permit effective date.

As per emails exchanged with the facility contact, sludge is not currently hauled offsite. The onsite septic tanks are pumped twice yearly.

Special conditions in this permit are as follows: Chlorine Minimization, UV Requirements, Solids Management for Lagoons, New DO WQBEL Requirements.

The previous inspection at this facility was a compliance evaluation and was held on 8/19/2021 and resulted in zero (0) NOVs. There are no open violations in the Clean Water Program that would warrant the withholding of the issuance of this permit. Recommend approval.

Modeling Inputs:

Outfall 001: Tributary 6537 to Equinuck Creek, 1-A (Shehawken - Rattlesnake Creeks), HQ-CWF
RMI: 1.15 (Modeling Purposes)

Summary of Review

Clicked Point (Latitude, Longitude): 41.81978, -75.33630
Time: 2025-04-01 11:58:03 -0400

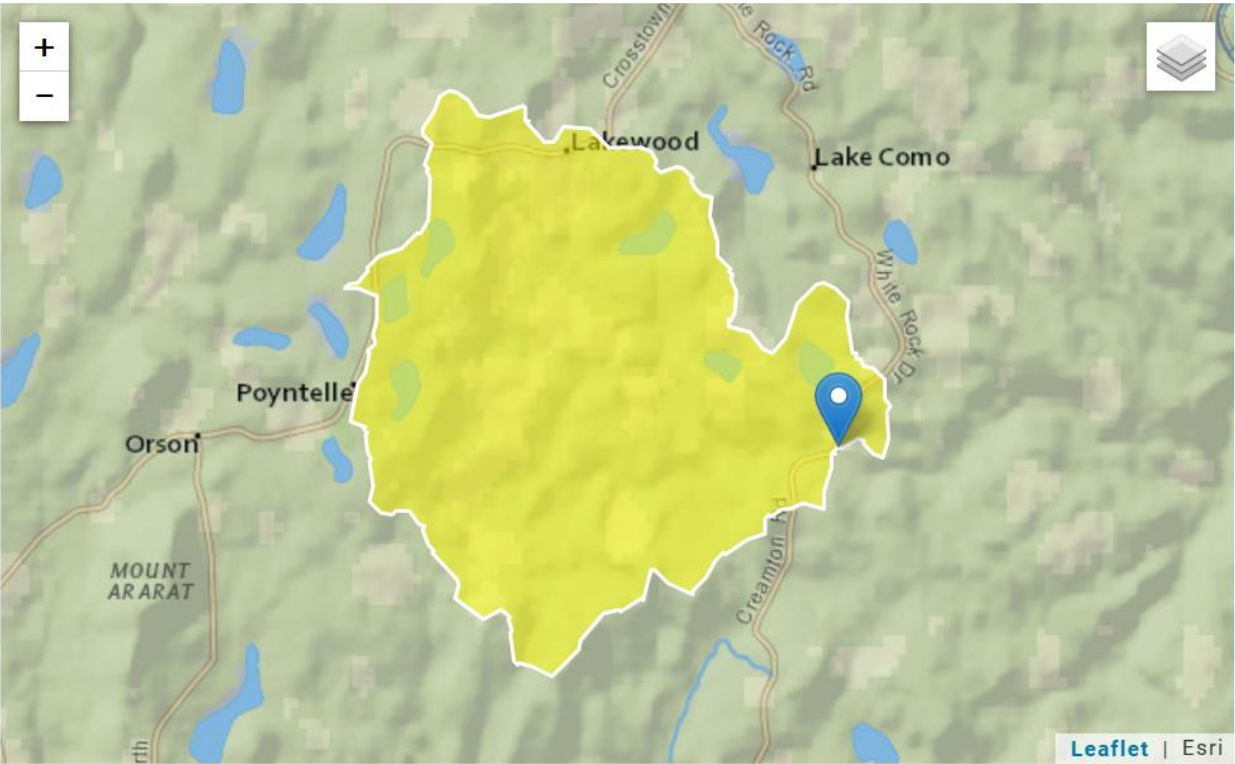


DRNAREA	Area that drains to a point on a stream	0.56	square miles
7 Day 10 Year Low Flow		0.00942	ft^3/s
41.81997	-75.33643	1507.32	133.03

PT 2: @ conflux with Equinock Creek approx. 1.15 miles downstream
RMI: .01 (Modeling Purposes)

Summary of Review

Clicked Point (Latitude, Longitude): 41.81203, -75.33267
Time: 2025-04-01 10:46:18 -0400



DRNAREA	Area that drains to a point on a stream	15.9	square miles
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7 Day 10 Year Low Flow	0.747	ft^3/s
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41.81213	-75.33270	1349.96	112.32
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USGS Gauge [01427200](#) located miles downstream was not used for modeling due to major increase in drainage area.

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
1.15	Camp Weeq	PA0029416	0.0210
Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	2.52	5.04	
Dissolved Oxygen			7

Record: 1 of 1

Summary of Review

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.011	= Q stream (cfs)	0.5	= CV Daily
0.021	= 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 = 0.127	1.3.2.iii	WLA cfc = 0.116
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.047	5.1d	LTA_cfc = 0.068

Source	Effluent Limit Calculations
PENTOXSD TRG 5.1f	AML MULT = 1.231
PENTOXSD TRG 5.1g	AVG MON LIMIT (mg/l) = 0.058 AFC
	INST MAX LIMIT (mg/l) = 0.191

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.



Pennsylvania
**Department of
Environmental Protection**