

**DOCKET NO. D-2018-005-2**

**DELAWARE RIVER BASIN COMMISSION**

**Discharge to a Tributary of Special Protection Waters**

**Camp Morasha  
Wastewater Treatment Plant  
Buckingham and Preston Townships, Wayne County, Pennsylvania**

**PROCEEDINGS**

This docket is issued in response to an application submitted to the Delaware River Basin Commission (DRBC or Commission) on March 14, 2023 (Application), for renewal of the docket holder's existing wastewater treatment plant (WWTP) and its discharge. The Pennsylvania Department of Environmental Protection (PADEP) issued National Pollutant Discharge Elimination System (NPDES) Permit No. PA0036382 for this discharge.

The Application was reviewed for continuation under Section 3.8 of the *Delaware River Basin Compact*. The Wayne County Planning Commission has been notified of pending action. A public hearing on this project was held by the DRBC on August 9, 2023.

**A. DESCRIPTION**

**1. Purpose.** The purpose of this docket is to renew approval of the docket holder's existing 0.045 million gallons per day (mgd) WWTP and its discharge and to upgrade the disinfection system from chlorine disinfection to ultraviolet (UV) disinfection.

**2. Location.** The docket holder's WWTP is located on High Lake Road in Buckingham Township, Wayne County, Pennsylvania. The facility will continue to discharge treated WWTP effluent to an unnamed tributary (UNT) of Equinunk Creek at River Mile 321.9 – 7.6 – 1.9 (Delaware River – Equinunk Creek – UNT of Equinunk Creek) via Outfall No. 001, within the drainage area to the Upper Delaware Special Protection Waters (SPW).

The WWTP outfall is located in the Equinunk Creek Watershed as follows:

<b>OUTFALL NO.</b>	<b>LATITUDE (N)</b>	<b>LONGITUDE (W)</b>
001	41° 50' 20.8"	75° 19' 42.37"

3. **Area Served.** The docket holder's WWTP will continue to serve Camp Morasha, a youth summer camp facility consisting of two separate areas: the Teen Camp side (96 acres) in Preston Township; and the Main Camp side (247 acres) in Buckingham Township, both in Wayne County, Pennsylvania. For the purpose of defining the Area Served, the Type of Discharge and the Service Area sections from the docket holder's Application are incorporated herein by reference, to the extent consistent with all other conditions contained in Section C. DECISION of this docket.

4. **Design Criteria.** The docket holder's 0.045 mgd IWTP utilizes an aeration lagoon treatment process. The existing WWTP includes a chlorination disinfection system, the proposed modification will replace chlorine disinfection with ultraviolet (UV) disinfection.

5. **Facilities.** The WWTP facilities consist of 2 pump houses, 3 aeration lagoons with 14 oxygen aerators. The facility's wastewater is given primary treatment by several on-site septic tanks and then discharged to an existing three stage, aerated lagoon treatment system which is operated in a series. The existing treated lagoon effluent is disinfected with sodium hypochlorite, dechlorinated with sodium bisulfite and then discharged to an UNT to Equinunk Creek. This chlorine disinfection system will be replaced with ultraviolet (UV) disinfection.

The docket holder's WWTP discharges to waters classified as SPW and is required to have available standby power. The existing WWTP has a generator installed capable of providing standby power.

The docket holder's WWTP is staffed 24 hours per day and has a remote alarm system installed that continuously monitors plant operations, which meets Commission SPW requirements.

The docket holder has prepared and implemented an emergency management plan (EMP) for the existing WWTP in accordance with Commission SPW requirements.

The project facilities are not located in the 100-year floodplain.

When wasted sludge is removed from lagoons, it will continue to be hauled off-site by a certified hauler.

6. **Water Withdrawals.** The potable water supply in the project service area is provided by the docket holder with on-site wells. The groundwater withdrawal is operated at a withdrawal rate below the DRBC groundwater withdrawal review threshold and is not subject to Commission review and approval.

7. **NPDES Permit / DRBC Effluent Requirements.** NPDES Permit No. PA0036382 issued by the PADEP includes final effluent limitations for the project discharge to surface waters classified by the PADEP as supporting High Quality – Cold Water Fishes (HQ-CWF) and Migratory Fishes (MF). EFFLUENT TABLE C-1 included in Section C. DECISION Condition C.1. of this docket, contains effluent requirements for DRBC parameters that must be met as a condition of this approval. Effluent requirements for Outfall No. 001 are based on a discharge rate of 0.045mgd.

## **B. FINDINGS**

The docket holder applied to renew the approval of their existing 0.045 mgd WWTP and its discharge and to upgrade the disinfection system from chlorine disinfection to ultraviolet (UV) disinfection.

### **1. Special Protection Waters**

In 1992, the DRBC adopted SPW requirements, as part of the DRBC *Water Quality Regulations (WQR)*, designed to protect existing water quality in applicable areas of the Delaware River Basin. One hundred twenty miles of the Delaware River from Hancock, New York downstream to the Delaware Water Gap has been classified by the DRBC as SPW. This stretch includes the sections of the river federally designated as "Wild and Scenic" in 1978 -- the Upper Delaware Scenic and Recreational River and the Delaware Water Gap National Recreation Area -- as well as an eight-mile reach between Milrift and Milford, Pennsylvania which is not federally designated. The SPW regulations apply to this 120-mile stretch of the river and its drainage area.

On July 16, 2008, the DRBC approved amendments to its *WQR* that provide increased protection for waters that the Commission classifies as SPW. The portion of the Delaware River and its tributaries within the boundary of the Lower Delaware River Management Plan Area was approved for SPW designation and clarity on definitions and terms were updated for the entire program.

Article 3.10.3A.2.e.1). and 2). of the Commission's *WQR* states that projects subject to review under Section 3.8 of the Compact that are located in the drainage area of SPW must submit for approval a Non-Point Source Pollution Control Plan (NPSPCP) that controls the new or increased non-point source loads generated within the portion of the docket holder's service area which is also located within the drainage area of SPW. The service area of the docket holder is located in the drainage area to the SPW. Since this project does not entail additional construction and/or expansion of facilities or service area and does not involve any new or increased non-point source load, the NPSPCP requirement is not applicable at this time. Accordingly, Section C. DECISION condition C.5 has been included in this docket.

## 2. Other

At the docket holder's WWTP discharge location, the unnamed tributary to Equinunk Creek has an estimated seven-day low flow with a recurrence interval of ten years ( $Q_{7-10}$ ) of less than 0.1 cubic feet per second (cfs) and therefore is classified by the Commission as an intermittent stream.

The nearest surface water intake of record for public water supply is located on the Delaware River approximately 146 river miles downstream of the docket holder's WWTP discharge and is operated by the City of Easton.

The project does not conflict with the Comprehensive Plan and is designed to prevent substantial adverse impact on the water resources related environment, while sustaining the current and future water uses and development of the water resources of the Basin.

The effluent limits in the NPDES Permit are in compliance with Commission effluent quality requirements, where applicable.

The project is designed to produce a discharge meeting the effluent requirements as set forth in the Commission's *WQR*.

## C. DECISION

Effective on the approval date for Docket No. D-2018-005-2 below, Docket No. D-2018-005-1 is terminated and replaced by Docket No. D-2018-005-2. The project and appurtenant facilities as described in Section A of this docket are approved pursuant to Section 3.8 of the *Compact*, subject to the following conditions:

### Monitoring and Reporting

1. The docket holder shall comply with the requirements contained in the EFFLUENT TABLES below. The docket holder shall submit the required monitoring results electronically to the DRBC Project Review Section via email [aemr@drbc.gov](mailto:aemr@drbc.gov) on the **Annual Effluent Monitoring Report Form** located at this web address: <https://www.nj.gov/drbc/programs/project/docket-app-info.html#3>. The monitoring results shall be submitted annually, absent any observed limit violations, by January 31. If a DRBC effluent limit is violated, the docket holder shall submit the result(s) to the DRBC within 30 days of the violation(s) and provide a written explanation that states the action(s) the docket holder has taken to correct the violation(s) and protect against any future violations. The following average monthly effluent limits are among those listed in the NPDES Permit and meet or are more stringent than the effluent requirements of the DRBC.

**EFFLUENT TABLE C-1: DRBC Parameters Included in NPDES Permit**

<b>OUTFALL 001 (Discharge to UNT of Equinunk Creek)</b>		
<b>PARAMETER</b>	<b>LIMIT</b>	<b>MONITORING</b>
pH (Standard Units)	6 to 9 at all times	As required by NPDES permit
Dissolved Oxygen	6.0 mg/l (minimum at all times)	As required by NPDES permit
CBOD (5-Day at 20° C)	25 mg/l	As required by NPDES permit
CBOD (5-Day at 20° C) (Influent)	Monitor & Report	As required by NPDES permit
CBOD (5-Day at 20° C) minimum removal	Monitor & Report	As required by NPDES permit
Total Suspended Solids	30 mg/l	As required by NPDES permit
Total Suspended Solids (Influent)	Monitor & Report	As required by NPDES permit
Total Dissolved Solids*	Monitor & Report	As required by NPDES permit
Fecal Coliform (5-1 to 9-30) (10-1 to 4-30)	200 colonies per 100 ml as a geo. avg. 2,000 colonies per 100 ml as a geo. avg.	As required in the NPDES permit
Ammonia-Nitrogen (5-1 to 10-31) (11-01 to 4-30)	4.2 mg/l 6.0 mg/l	As required by NPDES permit
Nitrate+Nitrite as N	Monitor & Report	As required by NPDES permit
Total Phosphorous	Monitor & Report	As required by NPDES permit
Total Kjeldahl Nitrogen (TKN)	Monitor & Report	As required by NPDES permit
Total Nitrogen	Monitor & Report	As required by NPDES permit

\* See Section C. DECISION Condition C.8.

2. Within 10 days of the date that construction of the project has started, the docket holder shall notify the DRBC of the starting date and scheduled completion date. Within 30 days of the date of project completion, the docket holder shall notify the DRBC of the project completion date.

3. Within 30 days of completion of construction of the approved project, the docket holder is to submit to the attention of the Project Review Section of DRBC a Construction Completion Statement (“Statement”) signed by the docket holder’s professional engineer for the project. The Statement must (1) either confirm that construction has been completed in a manner consistent with any and all DRBC-approved plans or explain how the as-built project deviates from such plans; and (2) indicate the date on which the project was (or is to be) placed in operation.

### **Other Conditions**

4. Sound practices of excavation, backfill and reseeding shall be followed to minimize erosion and deposition of sediment in streams.

5. Prior to allowing connections from any new service areas or any new developments, the docket holder shall either submit and have approved by the Executive Director of the DRBC a NPSPCP in accordance with Section 3.10.3.A.2.e or receive written confirmation from the Executive Director of the DRBC that the new service area complies with a DRBC-approved NPSPCP.

6. Prior to the docket holder initiating any substantial alterations or additions to the existing WWTP as defined in Section 3.10.3A2.a.16) of the Commission's *WQR*, an application must be submitted and approved by the Commission. Such an application shall be submitted prior to final design to ensure that the Commission can provide the docket holder with draft effluent limitations for SPW specific parameters as guidance for design as to not require duplication of work or cause a substantial expenditure of public funds without Commission approval. The docket holder is encouraged to contact the Commission staff during the planning stages to identify the potential effluent limitations required to meet the no measurable change parameters under SPW.
7. Except as otherwise authorized by this docket, if the docket holder seeks relief from any limitation based upon a DRBC water quality standard or minimum treatment requirement, the docket holder shall apply for approval from the Executive Director or for a docket revision in accordance with Section 3.8 of the *Compact* and the *Rules of Practice and Procedure*.
8. The docket holder may request of the Executive Director in writing the substitution of specific conductance for TDS. The request should include information that supports the effluent specific correlation between TDS and specific conductance. Upon review, the Executive Director may modify the docket to allow the substitution of specific conductance for TDS monitoring.
9. Section 2.3.10 of the Commission's *Rules of Practice and Procedure* (18 C.F.R. 401.41), limiting the Commission's approval to three years in the absence of an expenditure of substantial funds by the project sponsor in reliance on the approval, is hereby waived for good cause shown in accordance with Section 2.9.3 (18 C.F.R. 401.123) of the same regulations. This approval shall expire on the expiration date set forth below unless prior thereto the docket holder has applied to the Commission to renew or extend this approval.
10. The docket holder is responsible for timely submittal to the DRBC of a docket renewal application on the appropriate application form including the appropriate docket application filing fee (see 18 CFR 401.43) at least 6 months in advance of the docket expiration date set forth below. The docket holder will be subject to late filed renewal surcharges in the event of untimely submittal of its renewal application, whether DRBC issues a reminder notice in advance of the deadline or the docket holder receives such notice. If a timely and complete application for renewal has been submitted and the DRBC is unable, through no fault of the docket holder, to reissue the docket before the expiration date below, the terms and conditions of the current docket will remain fully effective and enforceable pending the grant or denial of the application for docket approval.
11. The docket holder is permitted to treat and discharge wastewater as set forth in the Area Served Section of this docket, which incorporates by reference the Type of Discharge and Service Area sections of the docket holder's Application to the extent consistent with all other conditions of this section.

12. In accordance with the Commission's regulations at 18 C.F.R. Part 440, the docket holder is prohibited from discharging wastewater from high volume hydraulic fracturing ("HVHF") or HVHF-related activities to waters or land within the Basin. The docket holder is further prohibited from discharging hydraulic fracturing wastewater, whether treated or untreated, from sources within or outside the Basin, without obtaining the Commission's prior review and express approval in the form of a revised docket. Violation of this or any condition of this docket approval may result in enforcement, including the risk of financial penalties, pursuant to Section 14.17 of the Delaware River Basin *Compact* and Section 2.7.8 (18 CFR 401.98) of the Commission's *Rules of Practice and Procedure*.
13. The facility and operational records shall be available at all times for inspection by the DRBC.
14. The facility shall be operated at all times to comply with the requirements of the Commission's *WQR*.
15. If at any time the receiving treatment plant proves unable to produce an effluent that is consistent with the requirements of this docket approval, no further connections shall be permitted until the deficiency is remedied.
16. Nothing herein shall be construed to exempt the docket holder from obtaining all necessary permits and/or approvals from other State, Federal or local government agencies having jurisdiction over this project.
17. The docket holder shall discharge wastewater in such a manner as to avoid injury or damage to fish or wildlife and shall avoid any injury to public or private property.
18. No sewer service connections shall be made to newly constructed premises with plumbing fixtures and fittings that do not comply with water conservation performance standards contained in Resolution No. 88-2 (Revision 2).
19. The issuance of this docket approval shall not create any private or proprietary rights in the waters of the Basin, and the Commission reserves the right to amend, suspend or rescind the docket for cause, in order to ensure proper control, use and management of the water resources of the Basin.
20. The docket holder shall be subject to applicable DRBC regulatory program fees, in accordance with duly adopted DRBC resolutions and/or regulations (see 18 CFR 401.43).
21. This approval is transferable by request to the DRBC Executive Director provided that the project purpose and area served approved by the Commission in this docket will not be materially altered because of the change in project ownership. The request shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.43).
22. The docket holder shall request a name change of the entity to which this approval is issued if the name of the entity to which this approval is issued changes its name. The request for

name change shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.43).

**23.** The Executive Director may modify or suspend this approval or any condition thereof, or require mitigating measures pending additional review, if in the Executive Director's judgment such modification or suspension is required to protect the water resources of the Basin.

**24.** Any person who objects to a docket decision by the Commission may request a hearing in accordance with Article 6 of the Rules of Practice and Procedure. In accordance with Section 15.1(p) of the *Delaware River Basin Compact*, cases and controversies arising under the *Compact* are reviewable in the United States district courts.

**BY THE COMMISSION**

**APPROVAL DATE: September 7, 2023**

**EXPIRATION DATE: February 28, 2027**