

DOCKET NO. D-1998-048 CP-4

DELAWARE RIVER BASIN COMMISSION

**Upper Moreland-Hatboro Joint Sewer Authority
Wastewater Treatment Plant
Upper Moreland Township, Montgomery County, Pennsylvania**

PROCEEDINGS

This docket is issued in response to an application submitted to the Delaware River Basin Commission (DRBC or Commission) on September 21, 2020 (Application), for renewal of the docket holder's existing wastewater treatment plant (WWTP) and its discharge. The discharge is permitted by the Pennsylvania Department of Environmental Protection (PADEP) in National Pollutant Discharge Elimination System (NPDES) Permit No. PA0025976. The application was reviewed for continuation of the project in the Comprehensive Plan and approval under Section 3.8 of the *Delaware River Basin Compact*. The Montgomery County Planning Commission has been notified of pending action. A public hearing on this project was held by the DRBC on May 12, 2021.

A. DESCRIPTION

- 1. Purpose.** The purpose of this docket is to renew approval of the docket holder's existing 7.189 million gallons per day (mgd) WWTP and its discharge.
- 2. Location.** The docket holder's WWTP is located at 2875 Terwood Road in Upper Moreland Township, Montgomery County, Pennsylvania. The WWTP will continue to discharge treated effluent to Pennypack Creek, at River Mile 109.75 – 17.80 (Delaware River – Pennypack Creek) via Outfall No. 001.

Specific location information has been withheld for security reasons.

- 3. Area Served.** The docket holder's WWTP will continue to serve the Borough of Hatboro and portions of Bryn Athyn Borough and portions of Upper Moreland, Upper Dublin and Horsham Townships all in Montgomery County; and a portion of Warminster Township, Bucks County, all in Pennsylvania, as delineated on the Sanitary Sewer System Service Area map that was part of the Application. For the purpose of defining the Area Served, Section B (Type of Discharge) and D (Service Area) of the docket holder's Application are incorporated herein by reference, to the extent consistent with all other conditions contained in the DECISION Section of this docket.

4. **Design Criteria.** The docket holder's 7.189 mgd WWTP utilizes an ultraviolet (UV) disinfection treatment process.

The WWTP is designed for an annual average flow of 7.189 mgd, and a hydraulic design capacity of 11.25 mgd.

5. **Facilities.** The WWTP facilities consist of two (2) screening devices, two (2) grit chamber channels, 15 primary settling tanks, fourteen (14) aeration/activated sludge tanks, 13 secondary settling tanks, and ultraviolet disinfection, with two (2) chlorine contact tanks as a backup to the ultraviolet facility. Sludge handling facilities include two (2) sludge holding tanks, a mechanical sludge dewatering facility, and an incinerator.

Several of the WWTP facilities are located in the 100-year floodplain. The docket holder indicated in the application that the WWTP facilities located in the floodplain are not located in the floodway and are flood proofed up to the flood protection elevation (one foot above the 100-year flood elevation).

Incinerator ash will continue to be handled in accordance with NPDES Permit No. PA0025976.

6. **Water withdrawals.** The potable water supply in the project service area is provided by Aqua Pennsylvania, approved by Docket No. D-1965-110 CP-1 on October 7, 1965; Horsham Water and Sewer Authority approved by Docket No. D-1997-016 CP-4 on June 13, 2018; and Warminster Township Municipal Authority approved by Docket No. D-2000-019 CP-2 on March 7, 2012.

7. **NPDES Permit / DRBC Effluent Requirements.** NPDES Permit No. PA0025976 issued by the PADEP includes final effluent limitations for the project discharge to surface waters classified by the PADEP as supporting Trout Stocking Fishes (TSF) and Migratory Fishes (MF). EFFLUENT TABLES C-1 & C-2 included in Section C. DECISION Condition C.1. of this docket, contain 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 7.189 mgd.

8. **Relationship to the Comprehensive Plan.** The existing WWTP was added to the Comprehensive Plan by Docket No. D-1998-048 CP-1 on January 26, 2000. The WWTP approval was renewed and modified by Docket Nos. D-1998-048 CP-2 and D-1998-048 CP-3, on December 8, 2011 and December 14, 2016, respectively. Issuance of this docket will renew and continue the WWTP and its discharge in the Comprehensive Plan.

B. FINDINGS

The docket holder submitted an application to renew approval of their existing 7.189 mgd WWTP and its discharge.

In March 2020, the docket holder submitted a Hydraulic Rerate Application to PADEP. On June 25th, 2020, PADEP approved the hydraulic rerate; therefore, increasing the hydraulic design capacity of the treatment plant from 9.08 mgd to 11.25 mgd found in Water Quality Management Permit No. 4610404.

2. Other

At the docket holder's WWTP discharge, the Pennypack Creek has an estimated seven-day low flow with a recurrence interval of ten years (Q_{7-10}) of 1.9 mgd (3.0 cfs). The ratio of this low flow to the hydraulic design wastewater discharge rate from the 7.189 mgd WWTP is 0.3:1 (1.9 mgd/7.189 mgd).

There are no surface water intakes of record for public water supply located downstream of the docket holder's WWTP.

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 conform with Commission effluent quality requirements, where applicable.

The project is designed to produce a discharge that meets the effluent requirements as set forth in the Commission's *Water Quality Regulations (WQR)*.

C. DECISION

Effective on the approval date for Docket No. D-1998-048 CP-4 below, the project described in Docket No. D-1998-048 CP-3 is removed from the Comprehensive Plan to the extent that they are not included in Docket No. D-1998-048 CP-4; Docket No. D-1998-048 CP-3 is terminated and replaced by Docket No. D-1998-048 CP-4; and the project and the appurtenant facilities described in Section A "DESCRIPTION" of this docket shall be continued in the Comprehensive Plan. 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 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

OUTFALL 001 (Discharge to Pennypack Creek)		
PARAMETER	LIMIT	MONITORING
pH (Standard Units)	6 to 9 at all times	As required by NPDES Permit
Total Suspended Solids	30 mg/l	As required by NPDES Permit
CBOD ₅ (at 20° C) (5-1 to 10-31) (11-1 to 4-30)	12 mg/l (85% minimum removal) 24 mg/l (85% minimum removal)	As required by NPDES Permit
Ammonia Nitrogen (5-1 to 10-31) (11-1 to 4-30)	1.4 mg/l 4.2 mg/l	As required by NPDES Permit
Fecal Coliform	200 colonies per 100 ml as a geo. avg.	As required by NPDES Permit

The following monitoring requirements and average monthly effluent limits are for DRBC parameters not listed in the NPDES Permit.

EFFLUENT TABLE C-2: DRBC Parameters Not Included in NPDES Permit

OUTFALL 001 (Discharge to Pennypack Creek)		
PARAMETER	LIMIT	MONITORING
Total Dissolved Solids*	1,000 mg/l *	One Per Quarter *

* See Section C DECISION Condition C.3.

Other Conditions

2. 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*.

- 3.** 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.
- 4.** 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 or not DRBC issues a reminder notice in advance of the deadline or the docket holder receives such notice. In the event that 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 against the docket holder pending the grant or denial of the application for docket approval.
- 5.** 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 Sections B (Type of Discharge) and D (Service Area) of the docket holder's Application to the extent consistent with all other conditions of this DECISION Section.
- 6.** The docket holder is prohibited from treating/pre-treating any hydraulic fracturing wastewater from sources in or out of the Basin at this time. Should the docket holder wish to treat/pre-treat hydraulic fracturing wastewater in the future, the docket holder will need to first apply to the Commission to renew this docket and be issued a revised docket allowing such treatment and an expanded service area. Failure to obtain this approval prior to treatment/pre-treatment will result in action by the Commission.
- 7.** The facility and operational records shall be available at all times for inspection by the DRBC.
- 8.** The facility shall be operated at all times to comply with the requirements of the Commission's WQR.
- 9.** 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.
- 10.** 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.
- 11.** 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.

12. 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).

13. 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.

14. 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).

15. 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).

16. 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).

17. 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.

18. 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: June 9, 2021

EXPIRATION DATE: January 31, 2027