

DOCKET NO. D-2016-011-1

DELAWARE RIVER BASIN COMMISSION

Discharge to a Tributary of Special Protection Waters

**Aqua Pennsylvania Wastewater, Inc. - Thornhurst
Wastewater Treatment Plant**

Thornhurst Township, Lackawanna County, Pennsylvania

PROCEEDINGS

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) by Aqua Pennsylvania Wastewater, Inc. (Aqua PA or docket holder) on November 3, 2016 (Application), for review of an existing wastewater treatment plant (WWTP) and its discharge. National Pollutant Discharge Elimination System (NPDES) Permit No. PA0060411 for this facility was issued by the Pennsylvania Department of Environmental Protection (PADEP) on May 14, 2015 effective June 1, 2015.

The Application was reviewed for approval under Section 3.8 of the *Delaware River Basin Compact*. The Lackawanna County Regional Planning Commission has been notified of pending action. A public hearing on this project was held by the DRBC on February 15, 2017.

A. DESCRIPTION

1. **Purpose.** The purpose of this docket is to approve the existing 0.070 million gallons per day (mgd) Thornhurst WWTP and its discharge.

2. **Location.** The existing WWTP will continue to discharge treated effluent to Pond Creek at River Mile 183.7 – 88.8 – 2.5 (Delaware River – Lehigh River – Pond Creek) via Outfall No. 001, within the drainage area to the Lower Delaware Special Protection Waters (SPW), in Thornhurst Township, Lackawanna County, Pennsylvania as follows:

OUTFALL NO.	LATITUDE (N)	LONGITUDE (W)
001	41° 12' 27"	75° 36' 0"

3. **Area Served.** The existing WWTP will continue to serve Thornhurst Country Club Estates Development in Thornhurst Township, Lackawanna County, Pennsylvania, as outlined on a map entitled “Thornhurst Wastewater Collection and Conveyance System”, submitted with 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. Physical Features.

a. Design Criteria. The docket holder will continue to operate its existing 0.070 mgd Thornhurst WWTP.

b. Facilities. The 0.070 mgd existing Thornhurst WWTP consists of a grinder system, equalization tank, splitter box, four (4) parallel aeration tanks, and sodium hypochlorite disinfection.

The docket holder's wastewater treatment facility 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 wastewater treatment facility is not staffed 24 hours per day, and shall have a remote alarm system that continuously monitors plant operations in accordance with the Commission's SPW requirements. The facility has an auto dialer system to notify staff of alarms.

The docket holder's existing wastewater treatment facility has prepared and implemented an emergency management plan (EMP) in accordance with Commission SPW requirements.

The project facilities are not located in the 100-year flood hazard area.

Wasted sludge will continue to be hauled off-site by a licensed hauler for disposal at a state approved facility.

c. Water withdrawals. The potable water supply in the project service area is provided groundwater wells owned by the docket holder. The wells are operated at a withdrawal rate below the DRBC groundwater withdrawal review threshold and are not subject to Commission review and approval.

d. NPDES Permit / DRBC Docket. NPDES Permit No. PA0060411 was issued by the PADEP on May 14, 2015 (effective June 1, 2015) and includes final effluent limitations for the project discharge of 0.070 mgd to surface waters classified by the PADEP as Exceptional Value (EV). The following average monthly effluent limits and monitoring requirements are among those listed in the NPDES Permit and meet or are more stringent than the effluent requirements of the DRBC.

EFFLUENT TABLE A-1: DRBC Parameters Included in NPDES Permit

OUTFALL 001 (Pond 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
Dissolved Oxygen	5.0 mg/l (minimum at all times)	As required by NPDES Permit
CBOD ₅ (at 20° C)	20 mg/l	As required by NPDES Permit

OUTFALL 001 (Pond Creek)		
PARAMETER	LIMIT	MONITORING
BOD ₅ (at 20°C) (Influent)	Monitor & Report	As required by NPDES Permit
Ammonia Nitrogen (5-1 to 10-31) (11-1 to 4-30)	3.0 mg/l 9.0 mg/l	As required by NPDES Permit
Fecal Coliform	200 colonies per 100 ml as a geo. avg.	As required by NPDES Permit
Total Phosphorus	1.0 mg/l	As required by NPDES Permit
Total Nitrogen	Monitor & Report	See Table A-2 Below*
Total Kjeldahl Nitrogen (TKN)	Monitor & Report	See Table A-2 Below*
Nitrate + Nitrite as N	Monitor & Report	See Table A-2 Below*
Total Dissolved Solids**	1,000 mg/l**	As required by NPDES Permit

*NPDES Permit requires annual monitoring for Total Nitrogen, TKN, and Nitrate + Nitrite; however, but the Commission requires monthly monitoring. See Table A-2 below

**See DECISION Condition C.I.q.

The requirements in **EFFLUENT TABLE A-2** are not listed in the NPDES Permit, but are Commission SPW effluent monitoring requirements that are required to be met as a condition of this docket approval.

EFFLUENT TABLE A-2: DRBC Effluent Monitoring Requirements Not Included in NPDES Permit

OUTFALL 001 (Pond Creek)		
PARAMETER	LIMIT	MONITORING
Total Nitrogen	Monitor & Report	Monthly
Total Kjeldahl Nitrogen (TKN)	Monitor & Report	Monthly
Nitrate + Nitrite as N	Monitor & Report	Monthly

B. FINDINGS

The purpose of this docket is to approve the existing discharge from the 0.070 mgd Thornhurst WWTP.

In 1992, the DRBC adopted SPW requirements, as part of the DRBC *Water Quality Regulations (WQR)*, designed to protect existing high 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 applicant's service area which is also located within the drainage area of SPW. The service area of the applicant is located within in the drainage area to the SPW. Since this project does not entail additional construction and expansion of facilities/service area and there are no new or increased non-point source loads associated with this approval, the NPSPCP requirement is not applicable at this time. Accordingly, DECISION Condition C.I.m. has been included in this docket.

At the applicant's WWTP discharge, Pond Creek has an estimated seven-day low flow with a recurrence interval of ten years (Q_{7-10}) of 0.168 mgd (0.26 cfs). The ratio of this low flow to the hydraulic design wastewater discharge from the 0.070 mgd WWTP is 2.4 to 1.

The nearest surface water intake of record for public water supply is located on the Lehigh River approximately 31 River Miles downstream of the applicant's WWTP, and is operated by the Hazleton City Authority.

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 *Water Quality Regulations (WQR)*.

C. DECISION

I. Effective on the approval date for Docket No. D-2016-011-1 below, the project and the appurtenant facilities as described in Section A "Physical Features" of this docket are approved pursuant to Section 3.8 of the *Compact*, subject to the following conditions:

a. Docket approval is subject to all conditions, requirements, and limitations imposed by the PADEP in its NPDES Permit, and such conditions, requirements, and limitations are incorporated herein, unless they are less stringent than the Commission's.

b. The facility and operational records shall be available at all times for inspection by the DRBC.

c. The facility shall be operated at all times to comply with the requirements of the Commission's *WQR*.

d. The docket holder shall comply with the requirements contained in the EFFLUENT TABLES in Section A.4.d. of this docket. The docket holder shall submit the required monitoring results electronically to the DRBC Project Review Section via email aemr@drbc.state.nj.us on the **Annual Effluent Monitoring Report Form** located at this web address: <http://www.state.nj.us/drbc/programs/project/pr/info.html>. 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.

e. 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*.

f. 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.

g. 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.

h. The docket holder is permitted to treat and discharge wastewaters 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.

i. 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.

j. 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).

k. Nothing in this docket approval shall be construed as limiting the authority of DRBC to adopt and apply charges or other fees to this discharge or project.

l. 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.

m. 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 is in compliance with a DRBC approved NPSPCP.

n. Unless the docket holder requests an application submittal extension, and the extension is approved by the Commission in advance, in accordance with paragraph 11 of the Commission's Project Review Fee schedule (Resolution No. 2009-2), the docket holder is responsible for timely submittal of a docket renewal application on the appropriate DRBC application form at least six (6) months in advance of the docket expiration date set forth below. The docket holder will be subject to late charges 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 (or the later date established by an extension that has been timely requested and approved), 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.

o. 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.

p. 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.

q. 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.

r. 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.

s. 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.

BY THE COMMISSION

DATE APPROVED: March 15, 2017

**EXPIRATION DATE: May 31, 2020
Expected NPDES
Permit Date**