

DOCKET NO. D-2003-009 CP-4

DELAWARE RIVER BASIN COMMISSION

Discharge to Special Protection Waters

**Borough of Portland
Wastewater Treatment Plant
Borough of Portland, Northampton County, Pennsylvania**

PROCEEDINGS

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) by R.K.R. Hess Associates on behalf of the Borough of Portland (docket holder) on July 31, 2012 (Application), for renewal of the docket holder's existing wastewater treatment plant (WWTP) and its related discharge. National Pollutant Discharge Elimination System (NPDES) Permit No. PA0064297 for the project discharge was issued by the Pennsylvania Department of Environmental Protection (PADEP) on April 29, 2014.

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 (Compact)*. The Lehigh Valley Planning Commission has been notified of pending action. A public hearing on this project was held by the DRBC on December 9, 2014.

A. DESCRIPTION

- 1. Purpose.** The purpose of this docket is to renew approval of the docket holder's existing 0.105 million gallon per day (mgd) WWTP and its related discharge. There are no modifications to the WWTP proposed.
- 2. Location.** The docket holder's WWTP is located on Demi Road in the Portland Industrial Park in the Borough of Portland, Northampton County, Pennsylvania. The WWTP will continue to discharge to the Delaware River Water Quality Zone 1D at River Mile 206.9, which is located in the Lower Delaware Special Protection Water (SPW) area and has been classified as Significant Resource Waters (SRW).

The project outfall is located in the Delaware River Watershed as follows:

OUTFALL NO.	LATITUDE (N)	LONGITUDE (W)
001	40 ° 55' 04"	75 ° 05' 16"

- 3. Area Served.** The docket holder's WWTP will continue to serve Portland Borough and the Portland Industrial Park (PIP). The PIP is located in Portland Borough and Upper Mount

Bethel Township. Both municipalities are located in Northampton County, Pennsylvania. DRBC Docket Nos. D-2003-009 CP-2 and D-2003-009 CP-3 approved modifications to the service area of the project WWTP to include the PIP. The service area approval is continued via this docket.

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's 0.105 mgd WWTP will continue to utilize a membrane bioreactor (MBR) / ultra-filtration treatment system and ultraviolet light (UV) disinfection.

b. Facilities. The WWTP facilities consist of two (2) fine screens, a grit removal unit, an MBR treatment/ultrafiltration system that features a two-basin aeration zone and a two-basin anoxic zone, the addition of aluminum sulfate for phosphorous removal, and a UV disinfection unit. Sludge handling consists of an aerobic digester and reed dewatering beds.

The docket holder's wastewater treatment facility discharges to waters classified as SPW and is required to have available emergency power. Emergency power is provided at the existing WWTP. (SPW)

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 existing WWTP has a remote alarm system installed that continuously monitors plant operations. (SPW)

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

The docket holder's existing wastewater treatment facility does not discharge to Outstanding Basin Waters (OBW), and is not required to have a nonvisible discharge plume in accordance with the Commission's SPW requirements. (SPW)

The docket holder's existing wastewater treatment facility is a direct discharger to SRW and is required to provide "Best Demonstrable Technology" (BDT) as a minimum level of treatment in accordance with the Commission's SPW requirements. (SPW)

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

Waste sludge is applied to reed drying beds located at the facility. Periodically, the reeds beds are cleaned out and the waste material is 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 by groundwater wells owned and operated by the docket holder. The water withdrawal is described in detail in Docket No. D-1997-029 CP-4, which was approved on May 11, 2011.

d. **NPDES Permit / DRBC Docket.** PADEP issued NPDES Permit No. PA0064297 for the project discharge on April 29, 2014, which includes effluent limits for the project discharge to Delaware River Water Quality Zone 1D. The following average monthly effluent limits and monitoring requirements, based on a flow of 0.105 mgd, are for DRBC parameters listed in the NPDES permit that meet or are more stringent than the effluent requirements of the DRBC, and includes the Commission's BDT requirements for dischargers to SRW, as defined in the DRBC Water Quality Regulations (WQR) Section 3.10.3.A.2.d.5).

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

OUTFALL 001 (Water Quality Zone 1D)		
PARAMETER	LIMIT	MONITORING
pH (Standard Units)	6 to 9 at all times	As required by NPDES permit
Total Suspended Solids	10 mg/l; 8.8 lbs/day 85 % minimum removal	As required by NPDES permit
CBOD (5-Day at 20° C)	10 mg/l; 8.8 lbs/day 85% minimum removal	As required by NPDES permit
Ammonia-Nitrogen	1.5 mg/l; 1.3 lbs/day	As required by NPDES permit
Fecal Coliform	50 colonies per 100 ml as a geo. avg.	As required by NPDES permit
Dissolved Oxygen	6.0 mg/l (minimum at all times)	As required by NPDES permit
Total Phosphorous	2.0 mg/l; 1.8 lbs/day	As required by NPDES permit
Total Dissolved Solids*	1,000 mg/l	As required by NPDES permit
Total Nitrogen	10 mg/l; 8.8 lbs/day	As required by NPDES permit
Total Kjeldahl Nitrogen (TKN)	Monitor & Report	As required by NPDES permit
Nitrate+Nitrite as N	Monitor & Report	As required by NPDES permit

* See Condition II.r. in DECISION section

e. **Relationship to the Comprehensive Plan.** The docket holder's WWTP was added to the Comprehensive Plan via Docket No. D-2003-009 CP-1 on January 19, 2005. Docket No. D-2003-0009 CP-2, approved on July 18, 2007, approved a modification to the WWTP approval. Docket No. D-2003-0009 CP-3, approved on July 15, 2009, approved a service area modification to the WWTP.

B. FINDINGS

This docket renews the approval of the docket holder's existing 0.105 mgd WWTP. There are no modifications to the WWTP proposed.

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. (Upper/Middle SPW)

On July 16, 2008, the DRBC approved amendments to its Water Quality Regulations (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. (Lower SPW)

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 within in the drainage area to the SPW. Since this project does not entail additional construction and expansion of (facilities/service area) (i.e., there aren't any new or increased non-point source loads associated with this approval), the NPSPCP requirement is not applicable at this time. Accordingly, DECISION Condition II.n. has been included in this docket.

Downstream of the project WWTP discharge location at the Belvidere Bridge USGS gage station, the Delaware River has an estimated seven-day low flow with a recurrence interval of ten years (Q_{7-10}) of 1,360 cfs (877 mgd). The ratio of this low flow to the average design discharge (0.105 mgd) from the project WWTP is 8,400:1.

The nearest surface water intake of record for public water supply downstream of the project discharge is the Easton City intake, located on the Delaware River approximately 22 miles downstream of the project discharge.

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 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

I. Effective on the approval date for Docket No. D-2003-009 CP-4 below:

a. The project described in Docket No. D-2003-009 CP-3 is removed from the Comprehensive Plan to the extent that it is not included in Docket No. D-2003-009 CP-4; and

b. Docket No. D-2003-009 CP-3 is terminated and replaced by Docket No. D-2003-009 CP-4 and

c. The project and the appurtenant facilities described in Section A “Physical Features” of this docket shall be continued in the Comprehensive Plan.

II. The project and 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* and *FPR*.

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/application/index.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 discharge of wastewater shall not increase the ambient temperatures of the receiving waters by more than 5°F, nor shall such discharge result in stream temperatures exceeding 87°F. (Non-tidal, Non-trout Waters)

i. 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. Any expansion beyond this area is subject to review in accordance with Section 3.8 of the Compact and subject to review as an expanding wastewater treatment project under the SPW regulations, including the non-discharge/load reduction alternatives evaluation.

j. The docket holder shall make wastewater discharge in such a manner as to avoid injury or damage to fish, wildlife, and/or other aquatic life and shall avoid any injury to public or private property.

k. 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).

l. 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.

m. 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.

n. 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.

o. Unless an extension is requested and 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 12 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.

p. 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.

q. 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.

r. 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.

s. Nothing in this docket constitutes a defense to any penalty action for past conduct of the docket holder or ongoing activity not authorized by this approval. In particular, renewal of this docket does not resolve violations – whether in the past or continuing – of provisions of the Delaware River Basin Compact (“Compact”) or any rule, regulation, order or approval duly issued by the Commission or the Executive Director pursuant to the Compact. The Commission reserves its right to take appropriate enforcement action against the docket holder, including but not limited to recovery of financial penalties consistent with Section 14.17 of the Compact, for any and all such prior or continuing violations.

t. 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.

BY THE COMMISSION

DATE APPROVED: December 10, 2014

EXPIRATION DATE: April 30, 2019