

**DOCKET NO. D-1997-034 CP-2**

**DELAWARE RIVER BASIN COMMISSION**

**Special Protection Waters**

**Pennsylvania American Water Company – Saw Creek System  
Groundwater Withdrawal  
Lehman Township, Pike County, Pennsylvania**

**PROCEEDINGS**

This docket is issued in response to an Application submitted by Pennsylvania American Water Company (PAWC) to the Delaware River Basin Commission (DRBC or Commission) on August 29, 2013 (Application), for a renewal and approval of an existing allocation of groundwater and review of a groundwater withdrawal project. This docket was previously approved by the Commission on September 3, 2003. The project wells were reviewed under the Pennsylvania Safe Drinking Water Act for public water supply permits and approved by the Pennsylvania Department of Environmental Protection (PADEP) on April 24, 1998 (PADEP Permit No. 5297502).

The Application was reviewed for continuation in the Comprehensive Plan and for approval under Section 3.8 of the *Delaware River Basin Compact*. The Pike County Planning Commission has been notified of pending action on this docket. A public hearing on this project was held by the DRBC on March 11, 2014.

**A. DESCRIPTION**

**1. Purpose.** The purpose of this docket is to approve the renewal of an existing supply of groundwater to the docket holder's public water supply system from existing Wells Nos. 1, 2, 3, 4, 5, 6, 7, 9, 10, 10A and 12. The total allocation of groundwater will remain 23.56 million gallons per month (mgm). PAWC is not requesting an increase in groundwater withdrawal allocation from that contained in its prior approval.

**2. Location.** The project wells are located in the Saw Creek Watershed, within the drainage area to the Middle Delaware Special Protection Waters, in Lehman Township, Pike County, Pennsylvania. The project wells are completed in the Catskill and Trimmers Rock aquifers stated in the table below (Facilities). Saw Creek near the project site is designated by the Pennsylvania Department of Environmental Protection (PADEP) as High Quality – Cold Water Fishes (HQ-CWF) and Migratory Fishes (MF).

Specific location information has been withheld for security reasons.

3. **Area Served.** The docket holder’s water distribution system serves the Saw Creek and Falls at Saw Creek residential developments and the Outdoor World Campground as shown on a map entitled “Saw Creek Water System”, submitted with the Application.

4. **Physical features.**

a. **Design criteria.** PAWC supplies water to an estimated population of 9,430 via 2,749 connections. The average and maximum groundwater demand for this project are 0.496 million gallons per day (mgd) and 0.736 mgd, respectively. The docket holder estimates an increase in average and maximum demand over the next ten years. The projected average and maximum demand is estimated to be 0.532 mgd and 1.086 mgd, respectively. The allocation of 23.56 mgm should be sufficient to meet the future demands of the PAWC system.

b. **Facilities.** The existing project wells have the following characteristics:

WELL NO.	DEPTH (FEET)	CASED DEPTH/ CASING DIAMETER	PUMP CAPACITY (GPM)	YEAR DRILLED	AQUIFER
1	300	49’/ 8”	190	1976	Delaware River Member, Catskill Formation
2	275	51’/ 8”	190	1978	Delaware River Member, Catskill Formation
3	150	61’/ 8”	155	1979	Delaware River Member, Catskill Formation
4	150	60’/ 8”	75	1980	Towamensing Member, Catskill Formation
5	250	61’/ 8”	45	1980	Towamensing Member, Catskill Formation
6	75	61’/ 8”	No Pump	1984	Sloat Brook Member, Trimmers Rock Formation
7	500	52’/ 8”	No Pump	1986	Sloat Brook Member, Trimmers Rock Formation
9	247	52’/ 8”	70	1987	Millrift Member, Trimmers Rock Formation
10	63	52’/ 8”	No Pump	1989	Millrift Member, Trimmers Rock Formation
10A	89	59’/ 8”	400	1994	Millrift Member
12	605	65’/ 8”	56	1995	Delaware River Member

All wells and water service connections are metered.

Prior to entering the distribution system, all groundwater is treated with liquid sodium-hypochlorite for disinfection. The groundwater is also treated with blended liquid phosphate for iron & manganese control (sequestration) and for general corrosion control.

The project wellheads are located above the 100-year flood elevation.

The water system is presently not interconnected with any other distribution system.

Storage facilities consist of one 1.4 mg storage tank, which is approximately 2.8 days' supply.

**c. Other.** Wastewater is conveyed to the PAWC sewage treatment facility most recently approved by DRBC Docket No. D-1988-089 on March 21, 1989. The PADEP issued its most recent NPDES Permit No. PA0060640 on March 1, 2011 for this treatment facility. The treatment facility has adequate capacity to receive wastewater from this project.

**d. Relationship to the Comprehensive Plan.** The PAWC wells were included in the Comprehensive Plan via DRBC Dockets Nos. D-1991-018 CP, D-1993-073 CP and D-1996-015 CP, issued on August 14, 1991, September 28, 1994 and October 23, 1996, respectively. Docket No. D-1996-015 CP was transferred from resorts USA, Inc. to PAWC on April 15, 2003. PAWC Well No. 10A was included in the Comprehensive Plan via DRBC Docket No. D-1997-034 CP-1, issued on September 3, 2003. Issuance of this docket will continue the groundwater withdrawal project in the Comprehensive Plan.

## **B. FINDINGS**

### **Special Protection Waters**

In 1992, the DRBC adopted Special Protection Waters 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 were 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 *Water Quality Regulations* that provide increased protection for waters that the Commission classifies as Special Protection Waters. The portion of the Delaware River and its tributaries within the boundary of the Lower Delaware River Management Plan Area was approved for Special Protection Waters designation and clarity on definitions and terms were updated for the entire program.

Article 3.10.3A.2.e.1). and 2). of the Water Quality Regulations, Administrative Manual - Part III, states that projects subject to review under Section 3.8 of the Compact that are located in the drainage area of Special Protection Waters must submit for approval a Non-Point Source Pollution Control Plan 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 Special Protection Waters. The wells providing water supply to the PAWC are located within in the drainage area to the Special Protection Waters. Since this project does not entail additional construction and expansion of facilities or service areas (i.e., there aren't any new or increased non-point source loads associated with this approval), the non-point source pollution control plan requirement is not applicable at this time. The project is designed to conform to the requirements of the *Water Code* and *Water Quality Regulations* of the DRBC.

The docket holder estimates that the project withdrawals, used for the purpose of public water supply, result in a consumptive use of 10 percent of the total water use. The DRBC definition of consumptive use is defined in Article 5.5.1.D of the *Administrative Manual – Part III – Basin Regulations – Water Supply Charges*.

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.

### **Water Audits for Public Water Supply Systems Serving Greater than 100,000 gpd**

Section 2.1.8 of the Water Code states that it is the policy of the Commission to establish a standardized water audit methodology for owners of water supply systems serving the public to ensure accountability in the management of water resources. Voluntary Water Audits were encouraged for public water supply systems through December 31, 2011 (Section 2.1.8.B.). Effective January 1, 2012, the owners of each public water supply system are required to implement an annual calendar year water audit program conforming to IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding AWWA guidance (Section 2.1.8.C). Water audits shall be submitted annually to the Commission by March 31 every year. PAWC submitted their most recent Water Audit on March 22, 2013.

## **C. DECISION**

- I. Effective on the approval date for Docket No. D-1997-034 CP-2 below:
  - a. The project described in Docket No. D-1997-034 CP-1 is removed from the Comprehensive Plan to the extent that it is not included in Docket No. D-1997-034 CP-2; and
  - b. Docket No. D-1997-034 CP-1 is rescinded and replaced by Docket No. D-1997-034 CP-2.

c. The project and the appurtenant facilities described in the Section entitled “Physical features” above shall be added to the Comprehensive Plan.

II. The project as described in the Section entitled “Physical features” above is approved pursuant to Section 3.8 of the *Compact* and is granted this withdrawal permit pursuant to Section 10.3 of the *Compact*, subject to the following conditions:

a. Docket approval is subject to all conditions, requirements, and limitations imposed by the PADEP, and such conditions, requirements, and limitations are incorporated herein, unless they are less stringent than the Commission’s. Within 60 days (May 12, 2014), the docket holder shall provide written confirmation to the Commission that it has registered and will report with PADEP all surface and groundwater sources described in this docket in accordance with the Pennsylvania Regulations (Title 25 - Environmental Protection, [25 PA. CODE CH. 110], Water Resources Planning).

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

c. The wells shall be operated at all times to comply with the requirements of the *Water Code* and *Water Quality Regulations* of the DRBC.

d. During any month, the combined withdrawal from all well sources shall not exceed 23.56 million gallons. No well shall be pumped above the maximum instantaneous rate and monthly allocation as indicated below:

<b>WELL NO.</b>	<b>MAXIMUM INSTANTANEOUS RATE (GPM)</b>	<b>MONTHLY ALLOCATION (MGM)</b>
1	190	8.482
2	190	8.482
3	155	6.919
4	75	3.125
5	45	2.009
6	110	4.91
7	205	9.151
9	70	3.125
10	240	10.714

WELL NO.	MAXIMUM INSTANTANEOUS RATE (GPM)	MONTHLY ALLOCATION (MGM)
10A	400	17.856
12	56	2.5

e. The wells shall be equipped with a readily accessible capped port and drop pipe so that water levels may be measured under all conditions.

f. The project withdrawals shall be metered with an automatic continuous recording device that measures to within 5 percent of actual flow. An exception to the 5 percent performance standard, but no greater than 10 percent, may be granted if maintenance of the 5 percent performance is not technically feasible or economically practicable. A record of daily withdrawals shall be maintained, and monthly totals shall be reported to the PADEP annually and shall be available at any time to the Commission if requested by the Executive Director.

g. Each new water service connection shall include a water meter in accordance with the DRBC’s Resolution No. 87-7 (Revised).

h. In accordance with DRBC Resolutions No. 87-6 (Revised) and No. 2009-1, the docket holder shall continue to implement to the satisfaction of the PADEP, the systematic program to monitor and control leakage within the water supply system. The program shall at a minimum include: periodic surveys to monitor leakage, enumerate non-revenue water and determine the current status of system infrastructure; recommendations to monitor and control leakage; and a schedule for the implementation of such recommendations. The docket holder shall proceed expeditiously to correct leakages and unnecessary usage identified by the program.

i. In accordance with DRBC Resolution No. 2009-1 and Section 2.1.8 of the Water Code, the docket holder shall implement an annual calendar year water audit program conforming to IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding guidance. Water audits shall be submitted annually to the Commission by March 31 every year.

j. The docket holder shall implement to the satisfaction of the PADEP, the continuous program to encourage water conservation in all types of use within the facilities served by this docket approval. The docket holder will report to the PADEP on the actions taken pursuant to this program and the impact of those actions as requested by the PADEP.

k. No water 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. The docket holder shall implement its Water Conservation Plan as approved by PADEP, and shall report to the PADEP on actions taken pursuant to this program and the impact of those actions as requested by the PADEP.

m. The docket holder shall implement to the satisfaction of the PADEP, a drought or other water supply emergency plan.

n. No new water service connections shall be made to premises connected to sewerage systems which are not in compliance with all applicable effluent limits contained in State permits and the *Water Quality Regulations* of the Commission.

o. 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.

p. The docket holder is permitted to provide the water approved in this docket to the areas included in Section A.3. Area Served of this docket. Any expansion beyond those included in Section A.3. Area Served is subject to DRBC review and approval in accordance with Section 3.8 of the *Compact*.

q. 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.

r. The issuance of this docket approval shall not create any private or proprietary rights in the water of the Basin, and the Commission reserves the rights to amend, alter or rescind any actions taken hereunder in order to insure the proper control, use and management of the water resources of the Basin.

s. If the monitoring required herein, or any other data or information demonstrates that the operation of this project significantly affects or interferes with any domestic or other existing uses of ground or surface water, or if the docket holder receives a complaint by any existing ground or surface water users within the zone of influence of the withdrawal, the docket holder shall immediately notify the Executive Director of any complaints by any ground or surface users within the zone of influence of the withdrawal, and unless excused by the Executive Director, shall investigate such complaints. The docket holder should direct phone call notifications of potential well or surface water interference or complaints of interference to the DRBC Project Review Section at 609-883-9500, extension 216. Oral

notification must always be followed up in writing directed to the Executive Director. In addition, the docket holder shall provide written notification to all potentially impacted users of wells or surface water supplies of the docket holder's responsibilities under this condition. Any ground or surface water user which is substantially adversely affected, rendered dry or otherwise diminished as a result of the docket holder's project withdrawal, shall be repaired, replaced or otherwise mitigated at the expense of the docket holder. A report of investigation and/or mitigation plan prepared by a hydrologist shall be submitted to the Executive Director as soon as practicable. The Executive Director shall make the final determination regarding the validity of such complaints, the scope or sufficiency of such investigations, and the extent of appropriate mitigation measures, if required.

t. 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.

u. For the duration of any drought emergency declared by either Pennsylvania or the Commission, water service or use by the docket holder pursuant to this approval shall be subject to the prohibition of those nonessential uses specified by the Governor of Pennsylvania, the Pennsylvania Emergency Management Council, PADEP, or the Commonwealth Drought Coordinator to the extent that they may be applicable, and to any other emergency resolutions or orders adopted hereafter by the Commission.

v. 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: March 12, 2014**

**EXPIRATION DATE: March 12, 2024**