



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: Beech Mountain Well 3

SRBC Pending No.: 2018-048

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

1.1 Project Sponsor

Company Name: Aqua Pennsylvania, Inc.

Mailing Address Line 1: 762 West Lancaster Avenue

Mailing Address Line 2:

City: Bryn Mawr

State: PA

ZIP Code: 19010

Contact Person:

First Name: Saad

Last Name: Yousif

Title: Sr. Engineer

Telephone: 610-645-1132

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E-mail: SSYousif@aquaamerica.com

1.3 Existing and Projected Facility Water Use

The usage should be entered in million gallons per day (mgd) and rounded off to the nearest one thousand gallons (three decimal places).

Projected Design Year:

2033

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.209	0.209
Maximum Daily Water Demand :	0.304	0.304
System Capacity :	0.208	0.208

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 16

Maximum Instantaneous Withdrawal Rate (gpm): 86

Maximum 24-Hour Day (mgd): 0.124

Maximum 30-Day Average (mgd): 0.124

Project Facility Description - Beech Mountain Well 3

Section 2.1

Well 3 is a new Community Water System groundwater source located in the Beech Mountain Lakes (BML) development. The groundwater withdrawal application for Well 3 requests a 30-day average withdrawal rate of 0.124 mgd (86 gpm) and a maximum instantaneous withdrawal rate of 86 gpm.

Well 3 is needed to increase the Beech Mountain Public Water System (ID#2400114) source capacity. The existing sources are Wells 1 and 2, and these require nearly continuous operation to satisfy the average day system demand. Maximum production from Wells 1 and 2 totals 0.209 mgd, and on occasion bulk water hauling into the system is necessary to meet the water demand. Peak day demand exceeds 0.300 mgd, and requires continuous pumping of Wells 1 and 2, plus most of the system's water storage. The addition of 0.124 mgd from Well 3 should enable the system to meet demand and provide a daily recharge period for each well.

Wastewater from BML is collected and treated by a municipal system. The treated wastewater is discharged to the Butler Township treatment plant in St. Johns approximately 3.2 miles west.

A 72-hour, constant rate aquifer test was conducted on Well 3, pumping at a rate of 86 gpm, in November 2017 pursuant to the SRBC's aquifer test plan approval letter dated July 18, 2017. A hydrogeologic report has been prepared to summarize the results of this testing. The requested withdrawal rate is based on the aquifer test results, groundwater availability of the groundwater basin that contains Well 3, and Wells 1 and 2, lack of significant impacts to other users, and no impacts to any surface water resources.