



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: BBWA Well 1

SRBC Pending No.: 2020-090

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: Bloomfield Borough Water Authority
Mailing Address Line 1: PO Box 293
Mailing Address Line 2:
City: New Bloomfield
State: PA
ZIP Code: 17068

Contact Person:

First Name: Michael
Last Name: Scheffey
Title: Manager / Waterworks Operator
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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:
2031

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.092	0.18
Maximum Daily Water Demand :	0.126	0.3
System Capacity :	0.317	0.605

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 14
Maximum Instantaneous Withdrawal Rate (gpm): 85
Maximum 24-Hour Day (mgd): 0.056
Maximum 30-Day Average (mgd): 0.056

Bloomfield Borough Water Authority Well 1 (BBWA-1)

2.1 *Project Facility Description*

Bloomfield Borough Water Authority Well 1 (BBWA-1) is an existing ground water supply well located in Centre Township, Perry County, Pennsylvania. BBWA-1 has been used for distribution in the public water supply system owned by Bloomfield Borough Water Authority (BBWA) since November 1991. The SRBC docket approval (Docket No. 19901103) to withdraw up to 0.101 million gallons per day (mgd) of ground water will expire on November 8, 2020. An Aquifer Test Plan Waiver request for BBWA-1 was submitted to SRBC on December 31, 2019. The groundwater withdrawal application for BBWA-1 requests a 30-day average withdrawal rate of 0.0564 mgd (39 gpm) and a maximum instantaneous withdrawal rate of 85 gpm.

Evaluation of historic withdrawals, reports and water levels were used to support the requested withdrawal rate. BBWA Well 2 (BBWA-2), which is located near BBWA-1 and withdraws from the same aquifer, was also evaluated as part of the waiver request for BBWA-1. Surface water bodies and wetlands proximal to BBWA-1 and BBWA-2 were evaluated previously by others, and the results of this study were approved by the SRBC in 2005. The proposed withdrawal rate for BBWA-1 of 0.0564 mgd is less the previous docket limit because historic operational 30-day average withdrawals from BBWA-1 were less than 0.101 mgd, and periods of aquifer stress which occurred prior to the implementation of operational changes in 2008. The requested 30-day average withdrawal from BBWA-1 was selected based on monthly peak withdrawals from BBWA-1 since 2008 and consideration of long-term future system demands. The requested maximum instantaneous withdrawal from BBW-1 of 85 gpm matches the pump capacity and the PADEP permitted rate.

BBWA-1 is located inside of a well house which also contains a ground water treatment system that is maintained by BBWA. BBWA-1 is permitted by the PADEP to operate at up to 85 gallon per minute (gpm). The PADEP operation permit (No. 500504) and the SRBC Docket for BBWA-2 (No. 2011001) require alternating withdrawals from BBWA-1 and BBWA-2, so that these two wells may not be operated simultaneously. Wastewater from the BBWA system is treated at the Bloomfield Sewage Treatment Plant and discharged to an unnamed tributary of Trout Run and ultimately returned back to the Susquehanna River basin under a NPDES permit (No. PA0024078).