



## SUSQUEHANNA RIVER BASIN COMMISSION

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### Groundwater Withdrawal Application Summary

**Source Name:** Well #1 Aquifer Test Waiver

**SRBC Pending No.:** 2019-107

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: Shippensburg Borough Authority  
Mailing Address Line 1: 111 North Fayette Street  
Mailing Address Line 2: PO Box 129  
City: Shippensburg  
State: PA  
ZIP Code: 17257

#### Contact Person:

First Name: Kevin  
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Title: Authority Secretary  
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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:  
2035

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	2.526	4.38
Maximum Daily Water Demand :	3.45	5.96
System Capacity :	5.83	5.83

#### 1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24  
Maximum Instantaneous Withdrawal Rate (gpm): 900  
Maximum 24-Hour Day (mgd): 1.296  
Maximum 30-Day Average (mgd): 1.28



## 2.1 PROJECT FACILITY DESCRIPTION

This Groundwater Withdrawal Application is for Shippensburg Borough Authority's existing Well 1, which is currently approved to withdraw up to a 30-day average of 1.92 million gallons per day (mgd) under SRBC Docket No. 19900713. This Groundwater Withdrawal Application is submitted to support the renewal of the SRBC docket that expires July 12, 2020. Well 1 was installed in 1989 and brought online as a public water source in 1992. An Aquifer Test Waiver Request for Well 1 was submitted to SRBC in December 2018 as part of this SRBC renewal process.

Well 1 is owned by Shippensburg Borough Authority (the "Authority") and operated by Shippensburg Borough. The Authority is a municipal public water authority with a geographic service area extending outside Shippensburg Borough and across the Cumberland Valley. There are approximately 150 miles of waterline. The Authority serves approximately 6,200 customers with a population of approximately 15,000 people located in Shippensburg Borough, Shippensburg Township, and Southampton Township within Cumberland County, Pennsylvania, and in Orrstown Borough, Letterkenny Township, Lurgan Township, and Southampton Township within Franklin County, Pennsylvania. The public water system is permitted with the Pennsylvania Department of Environmental Protection (PADEP) and is identified as PWSID No. 7210043.

### Water Sources

The water system is supplied by four sources, including one reservoir and three groundwater wells, as summarized below.

Water Sources		
Source	SRBC-Approved Withdrawal Rate (30-day average)	SRBC Docket No.
Well 1	1.92 mgd	19900713
Well 2	1.90 mgd	19940504
Well 3	2.00 mgd	20070305
Letterkenny Reservoir (Franklin County General Authority)	1.00 mgd	19990704

The three wells are owned by the Authority and are located on the southeast side of the service territory, which coincides with the southeast margin of Cumberland Valley near the base of South Mountain. The Authority has a connection with the Letterkenny Reservoir, which is operated by Franklin County General Authority and located on the northwest side of the valley and service territory, and on the west side of Blue Mountain. SRBC Docket No. 20070305 approved a total system withdrawal limit of 4.280 mgd for the Authority.

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Water Storage

The Authority has seven existing water storage facilities consisting of aboveground tanks with a total storage capacity of 5,909,000 gallons, as summarized below.

Storage Facilities		
Storage Facility	Capacity (gallons)	Location
Orrstown Storage Tank	149,000	Orrstown Borough
Roxbury Reservoir	500,000	Gunter Valley Water Treatment Plant
Shippensburg (In-Town) Reservoir	1,400,000	Southern Shippensburg Borough
Cleversburg Reservoir	500,000	South of the Village of Cleversburg
Mainsville Reservoir	250,000	South of the Village of Mainsville
Huckleberry Reservoir	110,000	Strohms Hollow Road in Southampton Township, Cumberland County
Timberhill Storage Tank	3,000,000	Possum Hollow Road in Southampton Township, Franklin County

Water Discharge

Shippensburg Borough owns and operates the Shippensburg Wastewater Treatment Plant (WWTP) located north of Avon Drive, just northwest of Shippensburg Borough. The WWTP discharges to Middle Spring Creek, which is a tributary to Conodoguinet Creek. The WWTP service area includes Shippensburg Borough and several adjacent municipalities that are members of the Cumberland-Franklin Joint Municipal Authority, which has an agreement to discharge to the WWTP. The adjacent municipalities include Orrstown Borough and portions of Southampton Township in Franklin County, and Southampton Township and Shippensburg Township in Cumberland County. The WWTP serves an estimated population of 21,000 people with an average daily flow of 2.24 mgd and a design flow of 4.3 mgd.

Requested Quantity of Water Withdrawal

This groundwater withdrawal renewal application requests 1.28 mgd as the new 30-day average SRBC limit. It should be noted that the 1.28-mgd 30-day average limit is less than the current SRBC limit of 1.92 mgd. The 1.28 mgd limit aligns with the Pennsylvania Department of Environmental Protection (PA DEP) Well 1 limit and with the capability of the current pumping system installed in Well 1. The sustainability of this requested reduced limit was demonstrated in the Well 1 Aquifer Test Waiver Request submitted to SRBC in December 2018.

This groundwater withdrawal renewal application also requests a total system 30-day average withdrawal limit of 4.38 mgd. This is based on a 15-year projection, including population growth and projected nonresidential projects within the service territory.