



# SUSQUEHANNA RIVER BASIN COMMISSION

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## Groundwater Withdrawal Application Summary

**Source Name:** Well 2

**SRBC Pending No.:** 2021-002

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: Quarryville Borough  
Mailing Address Line 1: 300 Saint Catherine Street  
Mailing Address Line 2:  
City: Quarryville  
State: PA  
ZIP Code: 17566

#### Contact Person:

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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:  
2034

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.216	0.224
Maximum Daily Water Demand :	0.39	0.466
System Capacity :	0.55	0.55

### 1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 18  
Maximum Instantaneous Withdrawal Rate (gpm): 450  
Maximum 24-Hour Day (mgd): 0.486  
Maximum 30-Day Average (mgd): 0.25



**WELL 2 GROUNDWATER WITHDRAWAL APPLICATION  
(RENEWAL OF DOCKET NO. 19931102)  
QUARRYVILLE BOROUGH AUTHORITY  
ARRCO Project No: 10996.25**

**Project Facility Description**

The project facility is an existing public water supply well (Well 2, or the N Church St. Well) operated by the Quarryville Borough Authority (Authority) that was previously approved under Docket 19931102. During 1993, the SRBC approved a groundwater withdrawal of up to 0.250 million gallons per day (mgd) from two existing groundwater wells (Well 1 and Well 2) under Docket 19931102.

Well 1 (the Legion Well) is not interconnected with the Authority's public water supply system. Treatment facilities for Well 1 were never constructed, and a Pennsylvania Department of Environmental Protection (PADEP) operations permit was never issued. Well 1 is only used to fill the Southern End Community Association (SECA) swimming pool. As such, the Authority is not requesting a renewal of the previously approved quantities for Well 1.

Well 2 is operated in conjunction with an interconnection operated by the Pennsylvania American Water Company (PAWC). An agreement with PAWC requires the Authority to purchase a minimum of 35,000 gallons per day (gpd) from the interconnection. Well 2 is the primary source of supply, providing approximately 85 percent of the water supply for the Authority's public water system. The Authority currently has no planned expansion of the public water supply service area.

The SRBC's Public Water Supply Assistance Program (PWSAP) prepared an Action Plan for Well 2 during 2020, which described the evaluation of existing data. A 48-hour aquifer test was performed in May 1993, which was subsequently reviewed and approved by SRBC. The historical operational data collected since 1995 are consistent with the results of the historical aquifer test. PWSAP also completed a preliminary groundwater availability analysis, which indicated that sufficient groundwater supplies are available at Well 2 to support the previously approved 30-day average withdrawal of 0.250 mgd and a maximum instantaneous withdrawal rate (MIWR) of 450 gpm. PWSAP concluded that continued use of Well 2 at the previously approved quantities of 0.250 mgd and a MIWR of 450 gpm would be unlikely to cause significant adverse impacts to other users or the environment.

During 2014, PAWC recommended a new connection point on the western end of the Authority's service area, and asked the Authority to purchase up to 70,000 gpd. Due to concerns over the capacity of the Authority's existing infrastructure, and historical water quality issues at the interconnection, the Authority rejected the PAWC proposal. For these reasons, the Authority proposes a new groundwater source (Test Well 4) to serve as a backup supply to Well 2, while providing improved quality water to its customers and controlling operational costs. Development of Test Well 4 is ongoing as of the date of this application.