



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: WTMA Well #1

SRBC Pending No.: 2018-072

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: Warwick Township Municipal Authority

Mailing Address Line 1: 315 Clay Road

Mailing Address Line 2:

City: Lititz

State: PA

ZIP Code: 17543

Contact Person:

First Name: Daniel

Last Name: Zimmerman

Title: Authority Administrator

Telephone: 717-627-2379

Fax: 717-627-7997

Mobile:

E-mail: DZimmerman@warwicktownship.org

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:

2030

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.225	0.288
Maximum Daily Water Demand :	0.256	0.288
System Capacity :	0.288	0.288

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24

Maximum Instantaneous Withdrawal Rate (gpm): 200

Maximum 24-Hour Day (mgd): 0.288

Maximum 30-Day Average (mgd): 0.288

Warwick Township Municipal Authority
WELL 1 SRBC DOCKET RENEWAL
Groundwater Withdrawal Application

2.1 PROJECT FACILITY DESCRIPTION

The Warwick Township Municipal Authority (WTMA) is pursuing renewal of SRBC Docket No. 19890103 approved on January 12, 1989 for a groundwater withdrawal from WTMA Well 1. The Warwick Township Rothsville System (PA DEP PWS ID No. 7360120) is a community water system served by WTMA Well 1 and Well 2. WTMA owns and operates the water system.

Well 1 is an existing groundwater source located in Lancaster County, Pennsylvania (the Site). The groundwater withdrawal application for Well 1 requests a 30-day average withdrawal rate of 0.288 million gallons per day (MGD) and a maximum instantaneous withdrawal rate of 200 gallons per minute (GPM). The groundwater withdrawal application also requests that the total system limit for the facility's sources remain at 0.288 MGD, as approved under SRBC Docket No. 20150312 on March 5, 2015.

The well water is used for public water supply within the Township, including domestic, commercial and light industrial uses. Wastewater is collected by the WTMA sanitary sewer collection system and treated at the Lititz Borough Wastewater Treatment Plant. A significant portion of the treated water is discharged back to the Susquehanna River basin under a NPDES Permit.

Well 1 and Well 2 provide redundancy for the other well. The wells are alternated on a monthly basis. System water demand is generally consistent. Industrial and domestic growth within the township has resulted in an increasing trend in withdrawals since 2015. Growth within the Township is expected to steadily continue over the next 15+ years. The Well 1 increase from 0.240 MGD to 0.288 MGD is needed to adequately provide redundancy for Well 2, and for the increase in demand related to ongoing growth in the Township.

A constant rate aquifer test was conducted on Well 1 in 1986 when the well was initially permitted, at pumping rates of 900 GPM for 48 hours, followed by pump testing at 800 GPM for 22 hours. A hydrogeologic evaluation has been prepared to summarize the results of this testing. The requested withdrawal rate is based on the aquifer test results, historic pumping record for Well 1, groundwater availability of the Well 1 basin, lack of potential impacts to other users and resources, total system withdrawal limit of 0.288 MGD, and existing PA DEP Public Water Supply Permit withdrawal limit for Well 1 of 0.288 MGD.