



SUSQUEHANNA RIVER BASIN COMMISSION

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Web <http://www.srbc.net>

Groundwater Withdrawal Application Summary

Source Name: Well 3

SRBC Pending No.: 2020-172

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: Montgomery Water Authority

Mailing Address Line 1: 35 South Main Street

Mailing Address Line 2:

City: Montgomery

State: PA

ZIP Code: 17752

Contact Person:

First Name: Donna

Last Name: Miller

Title:

Telephone: (570) 547-1671

Fax: (570) 547-1677

Mobile:

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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:

2036

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.321	0.492
Maximum Daily Water Demand :	0.56	0.976
System Capacity :	1.06	1.06

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 20

Maximum Instantaneous Withdrawal Rate (gpm): 300

Maximum 24-Hour Day (mgd): 0.432

Maximum 30-Day Average (mgd): 0.22

2.1 Project Facility Description - Montgomery Water Authority, Well #3 Ground Water Withdrawal Application Renewal

The Montgomery Water Authority (MWA) in Lycoming County, Pennsylvania owns a public water system that supplies water to the Borough of Montgomery and Clinton Township. The water system includes three wells (Wells #1, #3, and #4) that provide water to 706 domestic connections, 48 commercial connections, 16 industrial connections, one institution, and 27 multi-unit connections. Operation of the water supply system is contracted through Pennsylvania Environmental Solutions. Future foreseeable water demands include additional residential, industrial and institutional connections in Clinton and Brady Townships, including water line extensions along US Route 15, a golf course, Penn College, the former West Plant, and the State Correctional Institution at Muncy.

Due to expiration of the current SRBC approval, MWA is requesting a renewal of Montgomery Well #3 (Well #3) for a 30-day average withdrawal of 0.220 million gallons per day (mgd). The current approval issued by SRBC in 1991 allows for withdrawal by Well #3 of a 30-day average of 0.220 mgd. MWA is not requesting an increase for this renewal application. The current Total System Withdrawal Limit (30-day average), which includes all three of the wells, is 0.398 mgd. However, with the anticipated increased water demands that will begin in early 2021, MWA is requesting an increase in the Total System Limit to 0.492 mgd.

Water withdrawn by the wells is pumped directly to distribution if needed or to a 1,000,000-gallon storage tank. Water treatment (4-log treatment) occurs within the contact piping at the individual well sites prior to distribution or storage. Customers of the MWA public water system are connected to the West Branch Sewer Treatment Plant located at Muncy Station. Treated effluent from the plant is discharged to the West Branch Susquehanna River.

Withdrawal from each of the wells is metered individually at the well sites. Operation of the well pumps is controlled by the Supervisory Control and Data Acquisition (SCADA) system which also records the instantaneous and cumulative withdrawals continuously. The wells are programmed to turn on and off based on the water level in the storage tank and will also turn off individual wells if the water level in the wells declines to the pump cutoff switch. The SCADA system can be queried to report the data at any interval specified by the system operator. Water level information for the wells is measured using a compressed air bubbler system at Wells #1 and #3 and by using a pressure transducer in Well #4. Water level information for Wells #3 and #4 is collected and recorded by the SCADA system. Water level measurements at Well #1 are recorded manually by the operator at a set time each day.

Well #3 was drilled in 1989 and was placed into operation in 1991 after it was permitted with SRBC and the Pennsylvania Department of Environmental Protection (DEP). The 10-inch diameter well is screened from a depth of 230 feet to 290 feet below the ground surface and obtains water from the Ridgeley Sandstone aquifer. The instantaneous well yield is 153 gallons per minute; however, the well pump is capable of operating up to 300 gallons per minute.