



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: FSWA Well #7

SRBC Pending No.: 2021-121

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: Fredericksburg Sewer & Water Authority
Mailing Address Line 1: 113 East Main Street
Mailing Address Line 2: PO Box 161
City: Fredericksburg
State: PA
ZIP Code: 17026

Contact Person:

First Name: Brandon
Last Name: Nye
Title: Chief of Water Operations
Telephone: 717-865-0774
Fax:
Mobile:
E-mail: bnye@fswaonline.net

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:
2037

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.924	1.886
Maximum Daily Water Demand :	0.988	1.886
System Capacity :	0.877	1.172

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24
Maximum Instantaneous Withdrawal Rate (gpm): 115
Maximum 24-Hour Day (mgd): 0.158
Maximum 30-Day Average (mgd): 0.158

FSWA PROJECT FACILITY INFORMATION

SITE FACILITY NAME:

FSWA Public Water System – PWSID 7380035
Addition of Wells 7 & 8 – Current SRBC Application
Proposed Filtration Facility – Future

ANTICIPATED LONG-TERM OWNER/OPERATOR:

Fredericksburg Sewer & Water Authority

TYPE OF FACILITY:

The current and proposed facilities are in Fredericksburg, Bethel Township, Lebanon County, Pennsylvania. The current facility operates three production wells that provide water used in the system. The plant is also connected to the City of Lebanon Authority Public Water System (DEP PWS 7380010) for the balance of their potable water needs. A Supervisory Control And Data Acquisition (SCADA) system controls and monitors the entire system and alerts the Operator in the event of any alert or alarm condition. The SCADA system was upgraded in 2021.

All water withdrawn from the existing wells is pumped into a 137,500-gallon underground reservoir. The wells operate intermittently on a schedule that is controlled by the level in the reservoir. All production wells are equipped with properly sized electromagnetic flow meters which monitor instantaneous and total flows. Each well pump is turned off prior to withdrawal of the permitted maximum daily flow for its respective well. After midnight, all three daily flow totals are recorded and reset, the well pumps are turned back on, and the daily withdrawal totals begin accumulating from zero. Water from the reservoir is pumped into the system to fill the East and West Water Towers.

PURPOSE OF THE WITHDRAWAL:

The proposed wells shall provide additional water for the system. A proposed water filtration plant shall treat raw water from the 3 existing and 2 proposed wells and mix it with any water drawn from the CoLA interconnect. The water shall be treated and filtered prior to being pumped into the towers and distribution system. The reservoir shall be taken out of service at that time.

DESCRIPTION OF SITE ACTIVITIES:

The wells shall pump water through an existing raw water pipeline to the proposed filtration plant site on the north side of SR 22 in Fredericksburg.

REQUESTED QUANTITY OF WATER TO BE WITHDRAWN:

Well 7:	110 gpm	158,400 gpd
Well 8:	95 gpm	<u>136,800 gpd</u>
TOTAL:		295,200 gpd

DATE OPERATIONS ARE ANTICIPATED TO BEGIN:

The construction of the filtration plant will be required to use water withdrawn from proposed Wells 7 & 8. The design of the plant is underway. Upon completion of the design, the DEP construction permit application will need to be submitted, with an unknown approval time. Estimated date of filtration plant startup and well withdrawals is late 2024.