



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: Well 3

SRBC Pending No.: 2024-007

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: Williamsburg Municipal Authority
Mailing Address Line 1: 826 Recreation Drive
Mailing Address Line 2:
City: Williamsburg
State: PA
ZIP Code: 16693

Contact Person:

First Name: Joseph
Last Name: Lansberry
Title: Plant Manager
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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:
2037

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.129	0.164
Maximum Daily Water Demand :	0.343	0.518
System Capacity :	1.78	1.78

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 8
Maximum Instantaneous Withdrawal Rate (gpm): 575
Maximum 24-Hour Day (mgd): 0.199
Maximum 30-Day Average (mgd): 0.18

DETAILED PROJECT DESCRIPTION

The Williamsburg Municipal Authority (WMA) maintains a public water system (PWSID# 4070022) that serves a population of nearly 2000 people. The WMA water system serves residents in Williamsburg Borough, and portions of Woodbury and Catharine Townships in Blair County, Pennsylvania.

The Williamsburg Municipal Authority (WMA) water system:

Sources:

Source water for the WMA water service area is obtained from the MacIntyre Well field located along Briarwood Drive in Woodbury Township. The MacIntyre well field consists of three (3) groundwater wells.

SOURCE	30-Day Avg.	Permitted Max. Withdrawal	SRBC Docket Number
Well #1	0.048 MGD	0.170	GF-201911057
Well #2	0.048 MGD	0.205	GF-201911057
Well #3	0.048 MGD	0.830	19940702, 19940702-1
Total Average Daily Withdrawal	0.143 MGD		

Disinfection Facility:

The WMA water disinfection facility is located at the MacIntyre Tract in Woodbury Township. The existing disinfection facility was reconstructed in 2021-2022. The new facility utilizes liquid sodium hypochlorite to disinfect an average flow of 143,000 gallons per day. The reconstruction project involved the construction of a modern masonry structure to house the chemical feed equipment, flow monitoring equipment; pump controls, online chlorine residual monitoring equipment, a control center with extensive SCADA capabilities, well improvements, and all piping and appurtenances necessary for the operation and control of the disinfection facility. The project also included the installation of three raw water well metering vaults and waterline modifications within the well field.

Storage:

Stored water for the WMA system is contained in one of three above ground steel storage tanks. Total combined water storage is 1,160,000 gallons. Two storage tanks

are located at the WMA disinfection facility. The Cedar Hill tank serves a higher elevation service area.

Storage Tank Name	Capacity	Service Area
Tank 1	502,000	Central Williamsburg
Tank 2	512,000	Central Williamsburg
Cedar Hill Tank	140,000	Cedar Hill (high service)

Pump Stations

To supply the adequate pressure and quantity to WMA customers, three pump stations are utilized. The fourth street pump station pulls water from the central distribution system to the Cedar Hill Tank. The Cedar Hill Tank service area utilizes nearly 32,000 gallons per day. The newly constructed Piney Pump station and the Ridge Road pump stations supply water service to areas recently added to the WMA distribution system.

WMA System Usage Summary (all Sources)

Year	Average Day (million gallons)		Peak Day (million gallons)		Peak/Average Ratio
	Metered	Estimated	Metered	Estimated	
2022	0.129		0.343		2.66
2021	0.118		0.356		3.01
2020	0.132		0.374		2.84
2019	0.141		0.425		3.01
2018	0.167		0.498		2.99
2017	0.152		0.547		3.59
2016	0.142		0.484		3.41
2015	0.136		0.497		3.66
2014	0.136		0.434		3.20
2013	0.137		0.441		3.22

Requested Quantity of water to be withdrawn:

0.199 MGD

Date of Operation: 1997