



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: Production Well PW-2

SRBC Pending No.: 2022-090

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: Lycoming County Water and Sewer Authority
Mailing Address Line 1: 380 Old Cement Road
Mailing Address Line 2: P. O. Box 186
City: Montoursville
State: PA
ZIP Code: 17754

Contact Person:

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Title: Executive Director
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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 :	0.062	1.146
Maximum Daily Water Demand :	0.216	1.489
System Capacity :	0.634	0.936

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24
Maximum Instantaneous Withdrawal Rate (gpm): 150
Maximum 24-Hour Day (mgd): 0.216
Maximum 30-Day Average (mgd): 0.216

Lycoming County Water and Sewer Authority
Production Well 2 – Groundwater Withdrawal Application

Project Description

The Village Water System is owned and operated by Lycoming County Water and Sewer Authority (LCWSA). The Village Water System was donated to LCWSA in late 2010 and consisted of PW-2 and its treatment facilities together with the water distribution system serving Bella Vista, Tules Run, and River Valley Townhomes/Mountain View Developments. Upon acquisition, LCWSA began to make necessary compliance improvements. These improvements included water storage capacity – for both assurance of adequate potable water and provisions for fire protection, a second source (PW-3), additional distribution main to enhance public water supply in Fairfield Township, and an interconnection with the Halls Station System for redundant supply.

Prior to the donation of the Village Water System, LCWSA owned and operated the Halls Station Water System. The Village Water System and the Halls Station Water System currently operate under two separate PA DEP Public Water Supply permits, but together make up what is referred to as LCWSA Regional Water System serving Fairfield Township to the west, and Muncy Township? and a smaller portion of Muncy Creek Township to the east.

Within the Village Water System, PW-2 and PW-3 generally operate within the higher pressure zone in Fairfield Township; and to the east, the lower pressure zone, the Halls Station side is supplied by PW-1 together with water supplemented from an interconnection with Muncy Borough Water. Based on operating and maintenance needs, water can be transferred between the two operating pressure zones to assure sufficient water quantity and fire protection of the customers under varying circumstances.

The existing water system consists of the following major infrastructure:

- Halls Station
 - PW-1 Well with chlorination and pH adjustment – 158,000 gpd/110 gpm
 - Muncy Borough Interconnection (Halls Station) – minimum 20,000 gpd/maximum 80,000 gpd
 - Halls Station Storage Tank – 316,000 gallon bolted steel ground level tank
- Village Water
 - PW-2 Well (Village Water) originally with chlorination only - now includes pH adjustment with the addition of PW3 at the treatment building
 - PW-2 – Village Water Company original Operating Permit 216,000 gpd/150 gpm
 - Grey Fox Storage Tank – 200,000 gallon elevated spheroid tank
 - PW-3 Well with chlorination and pH adjustment – 180,000 gpd/125 gpm
 - Fairfield Storage Tank – 300,000 pre-stressed partially buried concrete tank

The operation of the system is based on water tank levels monitored in each of the tanks. As the water level in each tank falls to a low set point due (driven by usage in the system), the wells automatically turn on to replenish the water. Once the tank level rises to the high set point

level, its corresponding well(s) and treatment system are automatically turned off. The Muncy Borough Interconnection typically operates daily at 20,000 gallons per day in order to draw the minimum volume to LCWSA (minimum charge amount regardless of usage <20,000 gallons per day). The operation of the water system is monitored and operated remotely by Supervisory Control and Data Acquisition (SCADA) system with daily on site operations.

The Regional Water System serves a growing community with an average daily flow of 130,000 gpd which is seeing an increase again following the downturn which resulted during the COVID-19 pandemic. However, the area is seeing development with significant interest in repurposing properties together with greenfield development.

The system has 263 Residential, 155 Commercial, 16 Industrial, and 8 Institutional service connections with watermains ranging in size from 2" to 12" with a 200,000-gallon elevated water storage tank, 300,000-gallon ground-level water storage tank, and a 200,000-gallon ground level storage tank to assist in providing sufficient potable water and also fire protection to the entire service territory.

The area served by the Regional Water System is and has been designated as a growth corridor in Lycoming County, and the public water system was planned to promote growth and development in connection with available sewer capacity within LCWSA's Montoursville Regional Sewer System. The area also has a growing interest due to major traffic pattern changes resulting from the Central Susquehanna Valley Throughway project which is redirecting traffic to Interstate 180 along the Muncy Montoursville area instead of flowing through South Williamsport.

Permitting PW-2 at 150 GPM and 0.216 MGD maintains the continuity of operation of the well, provides operational flexibility throughout the Regional Water System, and continues to allow for increased water service availability for anticipated future growth within the service territory.