



SUSQUEHANNA RIVER BASIN COMMISSION

4423 North Front Street • Harrisburg, Pennsylvania 17110-1788

Phone (717) 238-0423 • Fax (717) 238-2436

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

Groundwater Withdrawal Application Summary

Source Name: Well 3

SRBC Pending No.: 2021-120

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: Geisinger Medical Center

Mailing Address Line 1: 100 North Academy Ave

Mailing Address Line 2:

City: Danville

State: PA

ZIP Code: 17821

Contact Person:

First Name: Douglas

Last Name: Grubb

Title: Facilities Ops Sr. Dir.

Telephone: (570) 271-6931

Fax:

Mobile: (570) 849-6167

E-mail: dgrubb1@geisinger.edu

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 :	0.361	0.75
Maximum Daily Water Demand :	0.4	0.85
System Capacity :	1	1

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 21

Maximum Instantaneous Withdrawal Rate (gpm): 100

Maximum 24-Hour Day (mgd): 0.144

Maximum 30-Day Average (mgd): 0.075

2.2 Facility Location

Please enter the address of the parcel where the Project Facility is located.

Street Address: 100 North Academy Ave

State: PA

County: Montour

Municipality: Mahoning Township

Zip Code: 17822

Subbasin: Middle Susquehanna

2.1 PROJECT FACILITY DESCRIPTION

This groundwater withdrawal renewal application is for Geisinger Health System's existing Well 3 that was installed in 1990 as a source of potable water supply for the Geisinger Medical Center in Mahoning Township, Montour County, Pennsylvania. Well 3 is currently approved to withdraw a 30-day average of 140,000 gallons per day (gpd) under Susquehanna River Basin Commission (SRBC) Docket No. 19910103. This renewal application requests to renew approval to withdraw a 30-day average of 75,000 gpd, with a maximum instantaneous withdrawal rate of 100 gallons per minute (gpm) and maximum daily withdrawal of 144,000 gpd. An aquifer test waiver request was submitted to the SRBC in December 2020 to this renewal application.

Geisinger Medical Center was established in 1915 and is currently a 460-acre, 3-million square foot hospital complex and healthcare support facilities campus in Danville, Pennsylvania. The facility is permitted as a nontransient noncommunity public water system with the Pennsylvania Department of Environmental Protection (PA DEP) and is identified as PWSID No. 4470012. PA DEP approved Well 3 to withdraw 144,000 gpd (100 gpm).

Water Sources

The facility purchases potable water from the Danville Municipal Authority public water system, withdraws water from a mine discharge adit (referred to as the Mine Shaft Well; for cooling towers only), and withdraws potable water from Well 3. The capacity of the Danville Municipal Authority to supply the Geisinger Medical Center is estimated at one million gallons per day (mgd). The current SRBC-approved 30-day average withdrawal limit for Well 3 is 140,000 gpd. The SRBC grandfathered 30-day average withdrawal rate from the Mine Shaft Well is 266,000 gpd.

Well 3 is Geisinger's only owned source of potable water supply, and it is essential to supplement the primary source of public water supply from Danville Municipal Authority. Although Well 3 cannot supply the full demand of the Geisinger Medical Center, it is still necessary as a secondary source, which is not only needed to supplement the primary source, but also needed to serve as a backup source in the event the supply with Danville Borough Municipal Authority is interrupted due to unforeseen circumstances. Well 3 can extend the amount of time Geisinger can meet demand from storage during potential emergency interruptions of the Danville supply.

Water Use

Danville Municipal Authority and Well 3 water is used for potable/domestic supply throughout the hospital complex and healthcare campus. These two sources and the Mine Shaft Well also supply water for cooling tower and boiler water makeup (i.e., consumptive use). The Mine Shaft Well supplies most of the cooling tower water. There are three centralized chiller plants with associated cooling towers and three other water-cooled equipment and cooling tower systems across the campus. Heating, sterilization and humidification are provided to the main hospital complex from a central boiler plant housing five boilers.

Water Storage

One 750,000-gallon aboveground domestic storage tank provides all domestic water to all the campus buildings and provides some water for consumptive uses. A 1,000,000-gallon thermal aboveground storage tank is used for cooling and fire suppression water only.

Water Discharge

Wastewater discharges to the Danville Municipal Authority public sewer system, which has a wastewater treatment plant that discharges to the Susquehanna River approximately 0.9 miles southwest of Geisinger Medical Center.