



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: Mine Spring No. 1 Well Source

SRBC Pending No.: 2020-181

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: Hastings Municipal Authority
Mailing Address Line 1: P.O. Box 559
Mailing Address Line 2: 207-1 Fifth Ave.
City: Hastings
State: PA
ZIP Code: 16646

Contact Person:

First Name: Thomas
Last Name: Kinney
Title: Chairman
Telephone: (814) 247-8240
Fax: (814) 247-6307
Mobile:
E-mail: baker_michelle@comcast.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:
2035

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.199	0.26
Maximum Daily Water Demand :	0.243	0.26
System Capacity :	0.3	0.3

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24
Maximum Instantaneous Withdrawal Rate (gpm): 180
Maximum 24-Hour Day (mgd): 0.26
Maximum 30-Day Average (mgd): 0.26

Hastings Municipal Authority
SRBC Groundwater Application
Project Facility Description

a) Site/Facility Name:

Mine Spring Production Well No. 1

b) Long term Owner/Operator:

Owner: Hasting Municipal Authority
Thomas Kinney, Chairman
207-1 Fifth Avenue, P.O. Box 559
Hastings, PA 16646-0559
(814) 247-8240

Operator: Hasting Municipal Authority
Richard Banik, Water Plant/System Operator
207-1 Fifth Avenue, P.O. Box 559
Hastings, PA 16646-0559
(814) 247-8240

c) Type of Facility:

Groundwater Well Source and Raw Water Storage Tank

d) Purpose of Withdrawal:

Improve and upgrade the existing source for the Hastings Water System

e) Description of existing/planned water use at the facility

The Hastings Municipal Authority (HMA) owns and operates a single source of supply. This source is the Mine Spring No. 1 and is classified as a ground water source under the influence of surface water. Water from this source was previously drawn via a 6" gravity water line installed over the floor of an old mine drainage tunnel. The withdrawal line extends from the walled-off mine drift to a spring collection vault and ultimately a water storage tank adjacent to the source. This gravity flow out of the Mine Spring was the primary method of water withdrawal, but due to clogging between the mine drift and drainage tunnel, gravity flow out of the Mine Spring has diminished.

In 2016, the Authority installed a water supply production well into the mine pool source with a pumping capacity of 180 gpm (0.260 MGD). The well pump was installed into a 4.5 foot deep sump in the bottom of the mine pool to maximize the sustained yield during all seasons. Upon SRBC approval, the gravity flow out of the mine pool will be permanently shut off and the well pump will be the sole means of water extraction.

The capacity of the Mine Spring provides a safe yield of 305,000 gpd, a permitted withdrawal limit of 260,000 gpd, and a pumping capacity of 260,000 gpd. This source is utilized on a daily basis to supply potable water to customers from Hastings Borough, Elder Township, and Susquehanna Township. HMA also has the ability to purchase water from the Elder Township Water Authority (ETWA) via the newly constructed (2016) 8" interconnection along S.R. 0036. The Patton Municipal Authority (PMA) provides ETWA with supplemental water which in turn can be provided to HMA at flows up to 300,000 gpd.

The flow data shown below is representative of the Authority's typical, overall yearly water usage, however, the amount of water purchased through the interconnect was greater than what will be anticipated in the coming years. The HMA water treatment facility was inoperable from the beginning of 2017 until 5/13/17 (and again between 11/21/17 – 12/5/17), so the Authority relied solely on water provided through the Elder Twp. Interconnect. It is the intention of HMA to utilize the Mine Spring and the 10,000 gpd minimum purchase through the interconnect for all water requirements and utilize flows greater than 10,000 gpd through the interconnect on an as needed basis.

Available/planned water storage capacity (million gallons)

Mine Spring #1 Raw Water Storage Tank: 0.160 MG

North Finished Water Storage Tank: 0.086 MG

South Finished Water Storage Tank: 0.300 MG

f) Requested quantity of the water to be drawn:

260,000 gpd

g) Date of Operation:

In 2016, the Authority installed a water supply production well into the mine pool source with a pumping capacity of 180 gpm (0.260 MGD). Since that time the source has not been activated except for required water quality testing (LT2).

The Mine Pool #1 source has been developed and constructed and is awaiting SRBC approval prior to daily usage.