



SUSQUEHANNA RIVER BASIN COMMISSION

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Groundwater Withdrawal Application Summary

Source Name: NHBA Well No. 5

SRBC Pending No.: 2018-119

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: New Holland Borough Authority
Mailing Address Line 1: 436 East Main Street
Mailing Address Line 2:
City: New Holland
State: PA
ZIP Code: 17557

Contact Person:

First Name: Richard
Last Name: Fulcher
Title: Authority Manager
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Mobile:
E-mail: jrf@newhollandborough.org

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:
2034

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.95	1.5
Maximum Daily Water Demand :	1.585	2.4
System Capacity :	2.5	3

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 10
Maximum Instantaneous Withdrawal Rate (gpm): 600
Maximum 24-Hour Day (mgd): 0.86
Maximum 30-Day Average (mgd): 0.86

SECTION 1 - BACKGROUND INFORMATION

General description of the proposed project.

New Holland Borough Authority (Authority) seeks to develop one additional groundwater supply well (Well No. 5) as an additional groundwater source to supplement and provide supply redundancy within the Authority water system. The Authority currently operates four groundwater wells, wells No. 1, 2, 3, and 4 all located within New Holland Borough. Wells No. 1 and No. 2 are contained within the watershed of an unnamed Tributary to the Conestoga Creek. Wells No. 3 and No. 4 are located within the Mill Creek Water Shed. Currently water from all four wells, after distribution and use, discharges to the Mill Creek watershed. Both watersheds ultimately drain to the Conestoga River. See the attached sanitary sewer map for the well and discharge locations.

Currently the four wells provide an adequate source of supply to the Authority water system. All four wells are constructed within carbonate geology and impacts from point sources of contamination as well as turbidity problems have the potential to rapidly impact a groundwater source. To that end, the Authority would like to add the additional well (Well No.5) to alleviate any future maintenance concerns and /or contamination issues that could render an existing source unusable for any amount of time. If an effort to maintain well head protection integrity, as well as operational flexibility, the Borough Authority wishes to add an additional well, Well No. 5. Well No. 5 is contained within the watershed of an unnamed Tributary to the Conestoga Creek in close proximity to Wells No.1 and No. 2. Well No. 5 would primarily be a redundant source of supply should any of the existing wells be impacted by a contamination or mechanical issue. The intent is also to add as much additional supply to the total system capacity as justifiable by the well performance and area water budget. The four existing wells are permitted as follows:

Well No. 1	0.391 mgd 30 day average withdrawal
Well No. 2	0.400 mgd 30 day average withdrawal
Well No. 3	0.790 mgd 30 day average withdrawal
Well No. 4	0.720 mgd 30 day average withdrawal

Wells No. 1 and No. 2 are in close proximity to each other and are restricted by permit to a 30 day average withdrawal of 0.522 mgd. The entire water system is restricted by permit to 1.65 mgd based on a 30 day average withdrawal.

Specifically, New Holland Borough Authority background information is as follows:

1. Anticipated long-term owner and operator, if different;
Owner: New Holland Borough Authority, 436 East Main Street, New Holland Lancaster County PA.

Operator: New Holland Borough, 436 East Main Street, New Holland Lancaster County PA.

2. Use; Public water supply for the New Holland Borough Authority to provide water for New Holland Borough, Earl Township and East Earl Township.
3. Current water needs (million gallons per day [mgd]); Currently, the average daily water usage for the Authority is approximately 0.9 mgd. Peak daily demands range from 1.5 mgd to 2.1 mgd with flows being partially equalized by the 1.7 million gallons of storage within two elevated storage tanks.
4. Anticipated future water need (mgd); Future water needs are not expected to exceed a daily average of 1.3 mgd during the next 15 years, with peak daily demands being 1.8 times the average water daily demand. The new source will provide a predominately redundant source of water for the Authority. This source would replace supply from the New Holland Reservoir which is currently decommissioned and not owned by New Holland Borough or the New Holland Borough Authority.
5. Planned water storage (million gallons);

Existing 1.2 mgd and 0.5 mgd elevated storage tanks. There are no additional planned, or needed, water storage facilities.
6. Location of return flow outfall. Water from Well No. 5 will be discharged to the Mill Creek Watershed, see attached outfall location on the Water System Map.