



SUSQUEHANNA RIVER BASIN COMMISSION

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

Groundwater Withdrawal Application Summary

Source Name: Chickies Well 2

SRBC Pending No.: 2019-106

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: Columbia Water Company
Mailing Address Line 1: 220 Locust Street
Mailing Address Line 2: P.O. Box 350
City: Columbia
State: PA
ZIP Code: 17512

Contact Person:

First Name: David
Last Name: Lewis
Title: Vice President and General Manager
Telephone: 717-694-2188
Fax:
Mobile:
E-mail: dlewis@columbiawater.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:
2040

Total Project Water Usage	Existing Usage (mgd)	Projected Usage For Design Year (mgd):
Maximum 30-day Average Water Demand :	0.54	1.2
Maximum Daily Water Demand :	1.02	1.2
System Capacity :	0.51	0.51

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 24
Maximum Instantaneous Withdrawal Rate (gpm): 414
Maximum 24-Hour Day (mgd): 0.596
Maximum 30-Day Average (mgd): 0.596

2.2 Facility Location

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

Street Address: Chickies Hill Road
State: PA
County: Lancaster
Municipality: West Hempfield Township
Zip Code: 17552
Subbasin: Lower Susquehanna

**SECTION 2.1
PROJECT FACILITY DESCRIPTION**

Columbia Water Company Marietta Division’s (CWC-MD) alternates pumping Well 2 (Docket No. 2017-007) and Well 3 (Docket No. 2017-008) to provide the potable demand for the service area, and a portion of York County. The service area includes Marietta Borough and portions of East Donegal Township in Lancaster County, and a small area in Hellam Township, York County.

CWC-MD supplies residential, industrial, commercial, and public potable water as a public water system in portions of Marietta Borough and East Donegal Township (Lancaster County) and Hellam Township (York County). The main sources of the CWC-MD water system are Well 2 and Well 3. A water pipe from the Lancaster side supplies the customers in Hellam Township for the majority of the year, supplemented by Well 4 (also known as the Dugan Well). The Dugan Well is located in York County.

Without interrupting operations, in October 2012, the Columbia Water Company (CWC) purchased the Marietta Gravity Water Company’s (MGWC’s) water system. CWC itself was incorporated in 1823. The MGWC system is isolated from the CWC system except for an emergency interconnection which hydraulically can only allow water to flow from the CWC system into the MGWC system. The anticipated long-term owner and operator of the water system is Columbia Water Company, Marietta Division.

The MGWC was founded circa 1892, and was sourced by two reservoirs in Hellam Township, York County. Two pipelines (one 10-inch and one 12-inch diameter) underneath the Susquehanna River fed the water from the reservoirs to Marietta Borough and portions of East Donegal Township. Use of the reservoirs ceased in the mid-1990s due to PADEP regulations requiring filtration of surface waters. MGWC had also drilled three water supply wells in the late 1950s and early 1960s (Wells 1, -2, and -3) on the eastern shore of the Susquehanna River to supplement the reservoirs. Well 1 was abandoned when Pennsylvania State Route 441 was constructed.

In 2002, MGWC drilled emergency wells in Hellam Township due to a break in the pipelines under the Susquehanna River between the Lancaster and York County sides. The Dugan Well 4 (hereafter referred to as the Dugan Well) was drilled in 2002 to a depth of 400 feet. The Dugan Well is a low capacity well, providing emergency service to the connections in Hellam Township, York County. An Aquifer Test Plan Waiver for the Dugan Well was submitted to the SRBC in November 2016, and approved in 2018.

The main source for MGWC are the wells located in Lancaster County. Chickies Wells 2 and 3 have been in operation since the 1960s, subject to the PADEP’s regulations for community water supplies. Well 1 was replaced by Well 2 in 1963 Well 2 was advanced to a depth of 133 feet with 119 feet of total casing. Well 3 was advanced to a total depth of 256 feet with 180 feet of total casing.

CWC-MD is requesting no changes in the water withdrawal.

Based upon the findings of this investigation and published information, the CWC-MD wells support the following pumping rates:

TABLE 1 SUSTAINED PUMPING RATE	
CWC-MD Well	Average Pumping Rate
Well 2	596,000 gpd (0.596 Mgd)
Well 3	474,000 gpd (0.474 Mgd)

gpd = gallons per day; Mgd = Million gallons per day