



## SUSQUEHANNA RIVER BASIN COMMISSION

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### Groundwater Withdrawal Application Summary

**Source Name:** Well 16

**SRBC Pending No.:** 2018-121

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: Leola Sewer Authority  
Mailing Address Line 1: 36 Hillcrest Avenue  
Mailing Address Line 2: PO Box 325  
City: Leola  
State: PA  
ZIP Code: 17540-0325

#### Contact Person:

First Name: Mike  
Last Name: Ewing  
Title: Senior Water Operator  
Telephone: (717) 656-9755  
Fax:  
Mobile:  
**E-mail:** [mewing@ultwp.com](mailto:mewing@ultwp.com)

#### 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:  
2033

<b>Total Project Water Usage</b>	<b>Existing Usage (mgd)</b>	<b>Projected Usage For Design Year (mgd):</b>
Maximum 30-day Average Water Demand :	0.577	0.765
Maximum Daily Water Demand :	0.899	1.193
System Capacity :	1.331	1.234

#### 1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5): 12  
Maximum Instantaneous Withdrawal Rate (gpm): 250  
Maximum 24-Hour Day (mgd): 0.36  
Maximum 30-Day Average (mgd): 0.263



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**GROUNDWATER WITHDRAWAL APPLICATION FOR WELL 16  
 (RENEWAL OF DOCKET NO. 19890702)  
 LEOLA SEWER AUTHORITY  
 RETTEW Project No: 057142013**

**2.1 – Project Facility Description**

This groundwater withdrawal renewal application is for Leola Sewer Authority’s (LSA’s) existing Well 16, which is currently approved under SRBC Docket No. 19890702. It was drilled in 1988 and has been a primary water source for LSA since 1990. Well 16 is LSA’s highest capacity water source, and it is essential to maintain adequate supply to the public water system. LSA’s existing Well 14 is also approved under the same Docket No. 19890702 that Well 16 is approved under; however, LSA no longer uses Well 14 and is not renewing Well 14’s SRBC approval.

This application requests to renew approval to withdraw from Well 16 at a 30-day average withdrawal rate of 0.263 million gallons per day (mgd) and a maximum instantaneous rate of 250 gallons per minute (gpm). The application also requests that the total system limit for the facility’s sources be increased from 0.760 mgd to 0.765 mgd, which is an increase of 0.005 mgd to account for projected demand in 15 years.

An aquifer test waiver request for Well 16 was submitted in October 2018 to support this groundwater withdrawal application and the renewal of the SRBC docket. The aquifer test waiver used a combination of historical operational data, historical aquifer test data, groundwater availability analysis, and hydrogeologic evaluation to support the sustainability of the requested withdrawal rate for Well 16.

LSA owns a public water supply system in Upper Leacock Township, Lancaster County, Pennsylvania (Public Water System ID 7360140). LSA maintains a management agreement with Upper Leacock Township to operate the water system. It supplies approximately 8,360 people with public water from five docketed groundwater sources (Well 13, Well 6, Well 9, Well 12, and Well 16; note Well 14 no longer used) and one interconnection with the City of Lancaster public water system, as summarized below.

Source	Permitted Rate (30-day average)	Docket No.	Source Type
Well 16	0.360 mgd	19890702	Groundwater
Well 6	0.251 mgd	20140907	Grandfathered Groundwater
Well 9	0.230 mgd	20140907	Grandfathered Groundwater
Well 12	0.195 mgd	20140907	Grandfathered Groundwater
Well 13	0.075 mgd	20140907	Groundwater
Well 14	0.020 mgd	19890702	Groundwater (not used/to be decommissioned)
Interconnection	0.220 mgd	NA	Interconnection with City of Lancaster (PADEP Permit WA-36-1009)

A total system limit of 0.760 mgd is approved under SRBC Docket No. 20140907. The groundwater sources are operated by LSA as individual wells (Well 16 and Well 6) and as a well field that includes Well 13 and two grandfathered sources (Well 9 and Well 12). LSA has three storage tanks with a total storage capacity

**2.1 - Project Facility Description**  
**Well 16 Groundwater Withdrawal Application**  
**Page 2 of 2**

of 1.55 million gallons. The storage tanks include Quarry Road Tank 1 (300,000-gallon), Hillcrest Avenue Tank 2 (1,000,000-gallon), and Bareville Tank 3 (250,000-gallon).

LSA also operates the public sanitary sewer system, which has a service area that, for the most part, overlays the public water service area. No on-lot septic systems are present within the service areas according to LSA. Wastewater is conveyed to the City of Lancaster Advanced Wastewater Treatment Plant, with the plant discharge to the Conestoga River located approximately six miles southwest of LSA's service area.