

Scioto County Regional Water District #1 Lucasville Raw Water Well Design Lucasville, Ohio



Client/Location

Scioto County Regional
Water District #1
PO BOX 310
Lucasville, OH 45648

Client Reference

Jonathan King
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Scioto County Regional
Water District #1
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Project Status

Complete

Dates of Service

Design – 2016
Construction – 2019

Special Features

- ODOT Permitting
- EPA Permitting
- Jack & Bore
- Hydraulic Study
- Water Extension
- Telemetry
- Topographic Survey
- Well Housing Design
- AEP Coordination
- Electrical Design
- Raw Water Well Design

Project Description

With the rising water supply demands to the Scioto County Regional Water District #1 area, Howerton Engineering & Surveying was contracted to design and permit the construction of a new raw water well located along the Scioto River adjacent to the existing raw water wells.

The first phase of the design was to perform a topographic survey of the proposed area along with locating existing boundary and Right of Way lines. GPS panel were set and Lidar/Aerial photography was taken of the existing well fields and proposed wet well area.

After a hydraulic study was performed of the existing water system, one existing well was abandoned and underground electric was ran to the existing power control station that controls the existing 3 pumps.

In order to connect the proposed wet well (and the 3 future wet wells), a Jack & Bore was designed to go under State Route 348 to connect into an existing 16" waterline that runs to the Water 1 Water Treatment Plant. The plans were designed with accordance to Ohio Department of Transportation Standards. The plans and specifications were submitted to the ODOT permitting office and was approved for construction.

Coordination with AEP and the Ohio EPA were required in order to obtain permitting and plan approvals.

The project is currently under construction.

**HOWERTON
ENGINEERING &
SURVEYING PLLC**