



SUSQUEHANNA RIVER BASIN COMMISSION

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Surface Water Withdrawal Application West Branch Susquehanna River Project Summary

SRBC Pending No.: 2020-106

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

Project Sponsor

Company Name: S.T.L. Resources, LLC

Address: 12300 Perry Highway

Suite 308

State: PA

City: Wexford

Zip Code: 15090

Contact Person: Seth Rodriguez

Title: Asset Manager

Telephone: 4125592400

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Email: srodriguez@stlresources.com

Requested Surface Water Withdrawal Quantity

Projected Design Year: 2020

Existing Withdrawal Quantity: 0(mgd)

Requested Withdrawal Quantity: 3.45(mgd)

Maximum Instantaneous Withdrawal Rate: 2875(gpm)

Estimated Daily Operation: 20(hours/day)

Requested Consumptive Use Quantity - No

Existing Consumptive Use: 0(mgd)

Requested Consumptive Use: 0(gpm)

Pre-Compact/Grandfathered CU: 0

Facility Location

Street Address: Hyner River Road

State: PA

County: Clinton

Municipality: Grugan Township

Zip Code: 17751

Surface Water Withdrawal Source Information

Source Name: West Branch Susquehanna River

Source Type: stream

Subbasin: West Branch Susquehanna

Detailed Description of Proposed Project

West Branch Susquehanna River Withdrawal S.T.L. Resources, LLC Grugan Township, Clinton County, PA

Project Overview

The West Branch Susquehanna River Withdrawal is a proposed surface water withdrawal facility that will be owned and operated by S.T.L. Resources, LLC (STL). This withdrawal will be an integral component of STL's gas development program in northcentral Pennsylvania. During operation of the intake, water will be withdrawn from the West Branch Susquehanna River at a rate that shall not exceed the permitted monthly instantaneous and daily maximum withdrawal rates.

Figure 1 shows the location of the West Branch Susquehanna River Withdrawal and the corresponding bank location adjacent to the point of withdrawal on a United States Geological Survey (USGS) 7½ minute quadrangle map and an aerial photograph. Location coordinates (latitude and longitude) are provided in the NAD 83 Datum in decimal degrees to six figures.

Project Infrastructure and Site Layout Description

The water withdrawal / conveyance infrastructure and general equipment layout are depicted on Figure 2 of this application. The attached Metering Plan describes the site layout in greater detail. As described within the Metering Plan and as shown on Figure 2, the West Branch Susquehanna River Withdrawal facility includes the following proposed features:

- A custom fabricated intake screen (30" x 30" x 42") will be equipped with a maximum 0.1-inch opening to prevent impingement and entrainment of aquatic species. The flow rate of water through the screen will not exceed 0.5 feet per second. Periodic maintenance will ensure adequate flow and species protection;
- A prefabricated pump float system will allow the intake pumps to float in the river at the selected withdrawal location. This will allow for efficient water withdrawal operations by locating the intake in the deepest part of the waterway. The pontoon system consists of a steel structure to support the pumps and will act as the intake screening device. Pumps can be accessed by a floating maintenance dock;
- A single withdrawal pump with a redundant back-up will be utilized with a pump float system to withdrawal water from the river;
- Dual, floating, raw water intake pipelines (diameter up to 12-inches) from the floating pumps to the frac tanks. Water will be conveyed to the bank location and stored in two (2) 500 bbl (21,000 gallons each) buffer tanks;
- Self-contained valve and meter trailer which will enclose the electronics used for the system; and



- A single 12” HPDE temporary overland freshwater pipeline, with booster pumps, for transfer of water to freshwater impoundment.

The Metering Plan provides detailed specifications for the intake screen strainer, withdrawal pump, and flowmeter.

Property Access

Access to the properties where the West Branch Susquehanna River Withdrawal and supporting infrastructure are proposed will be achieved directly from Hyner River Road (T-449) (Refer to attached Figure 2). The withdrawal location can be accessed by vehicle.

Site Photograph Log

Upon approval of this application, the West Branch Susquehanna River Withdrawal will be developed as shown on the attached Figure 2. Photographs showing the locations at the property where proposed infrastructure will be installed following approval are included on the following pages.

