



## SUSQUEHANNA RIVER BASIN COMMISSION

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### Surface Water Withdrawal Application Lycoming Creek Project Summary

**SRBC Pending No.:** 2018-126

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:** Keystone Clearwater Solutions, LLC

**Address:** 34 Northeast Drive

**City:** Hershey

**Contact Person:** Daniel Dalton

**Telephone:** 717-298-6902

**Mobile:** 717-982-3294

**State:** PA

**Zip Code:** 17033

**Title:** President and COO

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**Email:** [ddalton@keystoneclear.net](mailto:ddalton@keystoneclear.net)

#### **Requested Surface Water Withdrawal Quantity**

**Projected Design Year:** 2023

**Existing Withdrawal Quantity:** 1.25(mgd)

**Requested Withdrawal Quantity:** 1.25(mgd)

**Maximum Instantaneous Withdrawal Rate:** 869(gpm)

**Estimated Daily Operation:** 24(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:**

**State:** PA

**County:** Lycoming

**Municipality:** Lewis Township

**Zip Code:**

## **Surface Water Withdrawal Source Information**

**Source Name:** Lycoming Creek

**Source Type:** stream

**Subbasin:** West Branch Susquehanna

## Detailed Description of Proposed Project

### Lycoming Creek Intake Keystone Clearwater Solutions, LLC

The Lycoming Creek intake is a docketed surface water intake that is owned and operated by Keystone Clearwater Solutions, LLC (KCS) to withdraw freshwater for use in natural gas exploration and production activities in the surrounding area. During operation of the intake, water is withdrawn from the Lycoming Creek at a rate that shall not exceed the monthly withdrawal rates (instantaneous and total daily volumes) .

Figure 1 shows the location of the Lycoming Creek intake and the corresponding stream bank location adjacent to the point of withdrawal on a 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.

The water withdrawal/conveyance infrastructure and site equipment layout are depicted on Figure 2 of this application. As shown on Figure 2, the site includes the following features:

- A submerged intake screen strainer that is installed at the permitted withdrawal location;
- A 6-inch diameter, flexible PVC suction pipeline;
- Centrifugal withdrawal pump placed to the east of the intake location;
- A 6-inch diameter, rigid HDPE pump discharge pipeline;
- A digital flowmeter that measures the instantaneous and total daily withdrawals from the creek;
- A booster pump pad that pumps water to an existing, buried 6-inch diameter Flexsteel waterline used to convey water directly to nearby properties where operators are conducting natural gas exploration and production activities; and
- An existing buried 8-inch diameter HDPE waterline that conveys water to the on-site frac tank staging/truck filling station.

The water withdrawal and metering appurtenances listed above are described in detail in the Metering Plan submitted with this renewal application. The photograph log following this narrative includes images of the site and intake infrastructure (photograph locations are shown on Figure 2 of the renewal application).

When the Lycoming Creek intake site is being operated, water is withdrawn from the creek and pumped to its destination using the centrifugal pump described above. The Metering Plan provides specifications for the intake screen strainer, pump, and digital flowmeter. An existing wye installed within the single 6-inch diameter discharge pipeline and a series of gate valves allows withdrawn water to be directed to the existing booster pump station, to the existing truck filling station, or to both simultaneously. When all withdrawn water is to be pumped to the truck filling station, the wye remains open and water withdrawn is pumped to the filling station. In this instance, a gate valve seals the discharge line leading to the booster pump station. When



simultaneous pumping to the pump station and truck filling area is desired, the gate valves on each wye line remain open.

Access to the property where the Lycoming Creek intake is located will continue to be achieved via US-15 north and PA-14 north. Access to the Lycoming Creek at the withdrawal location is via an existing gravel driveway owned by the consenting landowner off of PA-14 at 5752 Route 14 Highway, Trout Run, PA 17771. The existing gravel water truck filling and turnaround areas will continue to be used. These features are located on property owned by the consenting landowner, which has provided the letter included as an attachment to this application. Driving directions to the site are provided in the attached Figure 3.

