SUSQUEHANNA RIVER BASIN COMMISSION
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Surface Water Withdrawal Application
Roaring Creek
Project Summary

SRBC Pending No.: 2022-078

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:	Scattered Acres Farms		
Address:	190 Tyson School Road		
		State:	PA
City:	Catawissa	**Zip Code:**	17820
Contact Person:	Todd Rush	**Title:**	Resource Management Specialist
Telephone:	(570) 809-1174	**Fax:**	
Mobile:		**Email:**	toddr@scatteredacresfarms.com

Requested Surface Water Withdrawal Quantity

Projected Design Year:	2038
Existing Withdrawal Quantity:	0(mgd)
Requested Withdrawal Quantity:	1.195(mgd)
Maximum Instantaneous Withdrawal Rate:	830(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: 279 Wagner Bridge Road, Catawissa
State: PA
County: Columbia
Municipality: Locust Township
Zip Code: 17820

Surface Water Withdrawal Source Information

Source Name: Roaring Creek
Source Type: stream
Subbasin: Middle Susquehanna

Project Facility Description: Scattered Acres Farms – Zubowicz Farm

The water withdrawal facility consists of an electric motor with a controller, water pump, water intake hose, two center pivot irrigation towers and associated buried water pipe at the property commonly known as the "Zubowicz Farm" by the operator. This is an existing facility which began operation on March 31, 2016 and withdrawals water directly from Roaring Creek which is located on the property. The property where the facility is located is owned by RFF Partners LP and operated by Scattered Acres Farms. The purpose of the withdrawal facility is to provide water for the irrigation of cropland at the property. The current maximum water withdrawal amount at this site is 0.936 million gallons per day; however, a withdrawal amount of 1.195 million gallons per day is being requested to account for the maximum output capabilities of the system pump.

The property consists of two adjoining parcels which total 176.72 acres. There are currently 135.51 acres of cropland at the property with the remaining 41.21 acres consisting of woodland and associated farmstead areas. The property is used for raising crops, hunting, fishing and recreation. The water withdrawal at this property is only utilized for the production of crops on the cropland acres. The current crop rotation implemented at the property is one year of potatoes, followed by one year of corn grain, one year of snap beans, one year of corn grain and one year of potatoes. Fields are chisel plowed prior to planting potatoes and turbo-tilled prior to planting beans. Corn is established using no-till planting methods. Multispecies cover crops are planted after potato and bean harvest.

The two center pivot irrigation towers are referred to as Zubes Upper 5T and Zubes Lower 3T by the operator. Zubes Upper 5T can irrigate approximately 72.1 acres using the five pivot towers with an additional 13.6 acres of irrigation achieved with having the pivot end gun on at 100%. Per the irrigation system manufacturer, this pivot is supplied at a flow rate of 650 gallons per minute. Zubes Lower 3T can irrigate approximately 24.7 acres using the three pivot towers with an additional 9.0 acres of irrigation achieved with having the pivot end gun on at 100%. Per the irrigation system manufacturer, this pivot is supplied at a flow rate of approximately 350 gallons per minute. Both pivots utilize the same withdrawal point and pump system. Only one pivot can operate at a time.

The volume of each irrigation event is adjusted based on the crop's growth stage, natural rain events and current soil moisture levels in the crop fields. A weather station and soil moisture probes have been installed at the site and are integrated into the irrigation system to provide real time site specific information for use in planning irrigation events. The volume of an irrigation event is adjusted by increasing or decreasing the speed that the pivot is traveling. Increasing the pivot travel speed will reduce the amount of water applied resulting in a shorter pump run time and a lower total water withdrawal volume. Decreasing the pivot travel speed will increase the amount of water applied resulting in a longer pump run time and a higher total water withdrawal volume. The irrigation system is typically operated from June through September each year and does not continuously run during this time period. During a year of normal precipitation, the system will run and withdraw water for an average of 14 days during the months of June through September. During a year of below normal precipitation, the system will run and withdraw water for an average of 42 days during the months of June through September. During periods when irrigation events are not occurring the system is not withdrawing water. An Irrigation Water Management Plan has been developed for this site and is included in Section 5.7 of the water withdrawal application.