

Application Type Renewal
Facility Type CAFO
Permit Type Individual

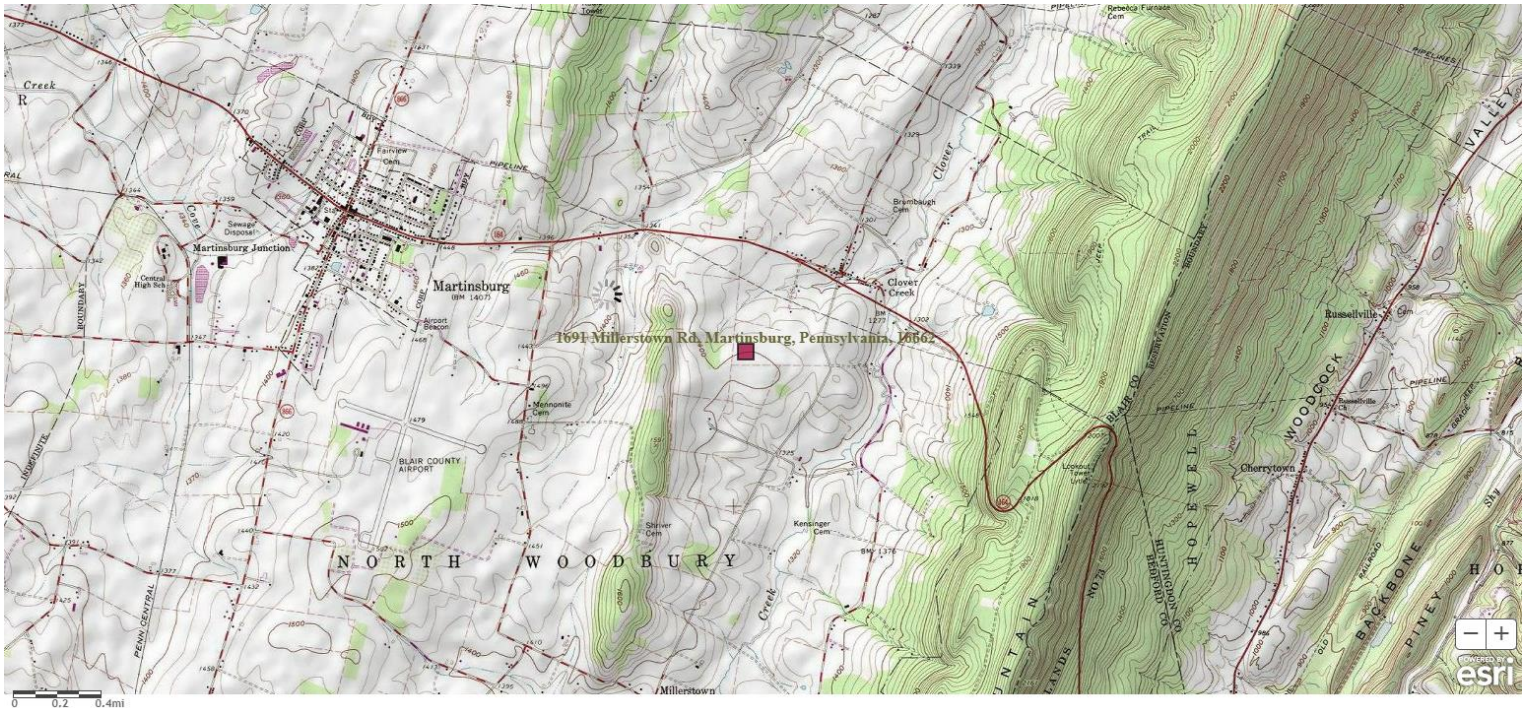
**NPDES PERMIT FACT SHEET
CAFOs**

Application No. PA0088404
APS ID 332466
Authorization ID 1393562

Applicant and Facility Information

Applicant Name	<u>Kulp Family Dairy LLC</u>	Farm Name	<u>Kulp Family Dairy CAFO</u>
Applicant Address	<u>1691 Millerstown Road</u> <u>Martinsburg, PA 16662-8020</u>	Farm Address	<u>1691 Millerstown Road</u> <u>Martinsburg, PA 16662-8020</u>
Applicant Contact	<u>Phil Kulp</u>	Farm Contact	<u>Phil Kulp</u>
Applicant Phone	<u>(814) 935-9797</u>	Farm Phone	<u>(814) 935-9797</u>
Client ID	<u>145838</u>	Site ID	<u>539336</u>
SIC Code	<u>0241</u>	Municipality	<u>North Woodbury Township</u>
SIC Description	<u>Agriculture - Dairy Farms</u>	County	<u>Blair</u>
Date Application Received	<u>April 25, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>April 28, 2022</u>	WQM App. No.	<u>0721201, 0705201</u>

Project Description Kulp Family Dairy LLC submitted a NPDES CAFO Individual permit renewal application for their existing CAFO Dairy operation



Approve	Deny	Signatures	Date
X		<i>Hans D. Shollenberger</i> Hans D. Shollenberger / Environmental Engineering Specialist	July 20, 2022
X		<i>Scott M Arwood</i> Scott M. Arwood, P.E. / Environmental Engineer Manager	7/21/2022

Description:

Kulp Family Dairy CAFO is an existing family crop and dairy operation with the home farm located at 1691 Millerstown Road, Martinsburg PA. Kulp Family Dairy CAFO submitted an application for renewal of their individual NPDES CAFO permit. The operation houses the following animal population:

Animal Type	Number	AEUs
Holstein Lactating Cow	2,233	3,237.85
Holstein Dry Cow	705	1,022.25
Holstein Heifer:1 -2 yr.	223	223.00
Holstein Calf: 0–1 yr.	685	287.70
Beef Finishing: 8-24 mo.	5	4.75
Meat Goat Doe	1	0.15
	Total AEUs =	4,775.70

The operation is not considered a CAO due to having an animal density less than 2 AEUs/Acre. The operation is considered a large CAFO for exceeding 1,000 AEUs and for exceeding the EPA large CAFO threshold of 700 mature dairy cows, whether milked or dry.

The receiving water for the Home Farm is Tributary 16173 To Clover Creek, designated as High-Quality Cold-Water fishes and Migratory Fishes (HQ-CWF, MF), located in Watershed 11-A. This stream is not impaired by Department Standards.

Satellite facilities:

- Huntsman Farm: Huntsman Lane North Woodbury Township, PA 16662
 - Tributary 16173 To Clover Creek (HQ-CWF, MF), 11-A, Not Impaired
- Dave Smith Farm: 1404 Millerstown Rd Martinsburg, Pa 16662
 - Clover Creek, (HQ-CWF, MF), 11-A, Not Impaired
- Ken Fry Farm: 163 Nursery Lane Martinsburg, Pa 16662
 - Tributary 16165 Of Clover Creek, (HQ-CWF, MF), 11-A, Not Impaired
- John Keith Farm: 1820 Curryville Rd Martinsburg, Pa 16662
 - Plum Creek (WWF, MF), 11-A, Impaired: Agricultural Nutrients/Siltation

Manure/Nutrient Management:

The current NMP covering this operation was approved on October 19, 2020 and a yearly plan submission for the 2022 crop year was accepted by Blair County Conservation District on July 28, 2021.

The 2023 Crop Year NMP was deemed administratively complete on June 29, 2022. On the administratively complete plan there are 2,645.0 acres available on lands rented by the applicant for manure application, resulting in a density of 1.81 AEUs/acre.

Any changes reflected upon approval of the 2023 crop year NMP will be noted in the factsheet addendum and the permit will be redrafted if necessary.

Manure Group Information:

Manure Group	Manure Generated Annually	Manure Used on the Farm	Manure Exported (gallons or tons)
Dairy Liquid - Fall	7,560,000.0 gal	16,293,700.0 gal	0.0
Dairy Liquid - Winter	9,000,000.0 gal	8,681,000.0 gal	0.0
Dairy Liquid - Spring	9,378,000.0 gal	15,324,300.0 gal	0.0
Dairy Liquid - Summer	2,820,000.0 gal	2,731,500.0 gal	0.0

Dairy Solid - Fall	1,016.0 tons	1,559.7 tons	0.0
Dairy Solid - Winter	1,017.0 tons	932.4 tons	0.0
Dairy Solid - Spring	1,017.0 tons	1,803.6 tons	0.0
Sand Solids	1,400.0 tons	1,402.8 tons	0.0
Sand Solids - uncollected	1,400.0 tons	0.0	0.0
Misc. - uncollected	43.6 tons	43.8 tons	0.0

Exported Manure:

Name/ Address	Amount and Source of Manure Exported per Season (gallons/ tons)			
	Spring	Summer	Fall	Winter
Stern Homestead (Aaron Stern) 6301 Woodbury Pike Roaring Spring, PA 16673	0	200,000 gallons	600,000 gallons & 650 tons	0
Royal B Farms 118 Creps Road, Martinsburg, PA 16662	400,000 gallons	200,000 gallons	500,000 gallons	0
Three Ways Farm 1820 Curryville Rd Martinsburg, Pa 16662	0	0	<i>Fall or Winter: 67,500 gallons</i>	

Some manure produced on this operation is exported to neighboring farms to be utilized for agricultural purposes. 300 tons of composted manure solids is exported in small quantities off the farm.

Winter Manure Management:

Application of manure during the winter period is approved in the NMP. The Kulp Dairy operation utilizes multiple fields to apply manure to during the winter period. For the 2023 crop year, the primary fields were listed as: HuntsHome 01, HuntsHome 03, Mock 01, Brown 01, Dilling/Querry 01, Dilling/Querry 03, WWidows 01, WWidows 10, Zum 02, Zum 06, Zum E03, Zum E04, Zum M03, Zum M04, Clyde/Phil 01, Clyde/Phil 02, HuntsCroft East, HuntsCroft West, Clapper2, Hunts Airport 01, HamPro 04, Hamm 01, Hamm 02A, Hamm 03, Hamm 04, Hamm 06A, ShelHoover 01, KFry 01, KFry 02, KFry 03, KFry 4, JKeith 01, PGar 02, 03, PGar 06, PGar 07, 08, NMartin 01, NMartin 02, Fry/Rob 13, Detwiler 11 East, JShow 03, JShow 04, JShow 05, BBaker R08, R10, BBaker R12, R14, BBN 02, 04, BBN 05, BBN 06, 07, BBN 09, DSmith03, DSmith05, MikeDt01, 03, MikeDt02, Dil/Smith 08.

Manure storage facilities should have the following freeboard on December 15 to implement the NMP:

Manure Storage	Freeboard on December 15th
Home Farm Stage 1 Earthen Lagoon	13.1'
Home Farm Stage 2 Earthen Lagoon	14.8'
Home Farm Dry Cow Earthen Lagoon	7.7'
Huntsman Farm Concrete Circular Tank	Empty
Huntsman Farm Earthen Lagoon	Empty
Dave Smith Farm Earthen Lagoon	4.5'
Huntsman Farm HDPE-Lined Lagoon	3.1'

Manure Storage Facilities:

Existing Liquid Storage(s):

Storage	Dimensions	Freeboard	Capacity
Home Farm Stage 1 Earthen Lagoon	178' x 220' x 16'	2'	2,480,119 gallons
Home Farm Stage 2 Earthen Lagoon	183' x 192' x 15'	2'	2,076,738 gallons
Home Farm Dry Cow Earthen Lagoon	126' x 171' x 8'	2'	665,166 gallons
Huntsman Farm Earthen Lagoon	100' x 145' x 12'	2'	550,403 gallons
Huntsman Farm Concrete Circular Tank	120' x 12'	2'	845,539 gallons
Dave Smith Farm Earthen Lagoon	195' x 127' x 12'	2'	1,116,639 gallons
Ken Fry Farm Earthen Lagoon	104.5' x 104.5' x 8'	2'	530,943 gallons
John Keith Farm Earthen Lagoon	110' x 130' x 12'	2'	875,000 gallons

Proposed Liquid Storage(s):

Storage	Dimensions	Freeboard	Capacity
Huntsman Farm HDPE-Lined Lagoon	280' x 560' x 16'	2'	12,717,819 gallons

WQM Permit No. 0721201 was issued by the Department on July 19, 2022 for the construction and operation of the Huntsman Farm HDPE-Lined Lagoon and for the operation of all the existing storages listed above along with all associated transfer lines.

Dairy solid manure at the Home Farm is stored on a 140' x 60' concrete pad at the west end of the dairy barns if the manure cannot be land applied when the stalls are cleaned out. The separated solids at the Home Farm are stored in a shed by the manure storages until it is used for bedding. There will be no infield stacking on this operation.

There are 4 shallow groundwater monitoring wells located around the Home Farm impoundment system as follows:

- **MW-1:** located 40° 18' 10"N, 78° 17' 20.1"W, near southeastern end of Stage 2, and near the pump house. Reportedly located 8 feet below the top of berm and is constructed 16 feet deep.
- **MW-2:** located 40° 18' 11.9"N, 78° 17' 20.7"W, near northeastern end of Stage 2. Reportedly located 12 feet below top of berm and is constructed 16 feet deep.
- **MW-3:** located 40° 18' 12.2"N, 78° 17' 25.3"W, north of Stage 1, near the emergency catch basin. Reportedly located 13 feet below top of berm and is constructed 16 feet deep.
- **MW-4:** located 40° 18' 11.1"N, 78° 17' 28"W, west of Stage 1. Reportedly located 12 feet below top of berm and is constructed 10 feet deep. Solid limestone was encountered at 10 feet below ground surface.

The permittee will be required to collect and analyze samples from the above-mentioned groundwater monitoring wells as discussed in the permit's site-specific requirements.

Animal Mortality:

The mortality of the cattle is incinerated. 300 tons of composted separated solids is exported to homeowners for garden/flower beds in small quantities. The separated solids are stored in an empty bunk silo, till exported off farm.

Animal Concentration Areas (Chapter 102.4a):

There is an ACA on the Fry Satellite Farm where the animals can gather behind the barn to exercise as indicated in the NMP. This ACA will provide storage for solid manure if it is not able to be land applied immediately.

Chapter 102 E&S (Conservation Plans):

Agricultural E&S and Conservation Plans have been included or verified to exist for land subjected to plowing and tilling activities.

Downstream Public Water Supplies:

The nearest downstream public water supply intake is the United Water Co. intake on the Susquehanna River, over 50 miles downstream from the CAFO. Due to the distance and dilution, the CAFO is not expected to affect the water quality of the intake.

Compliance History:

There are no open violations for this operation.

Public Participation:

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.