

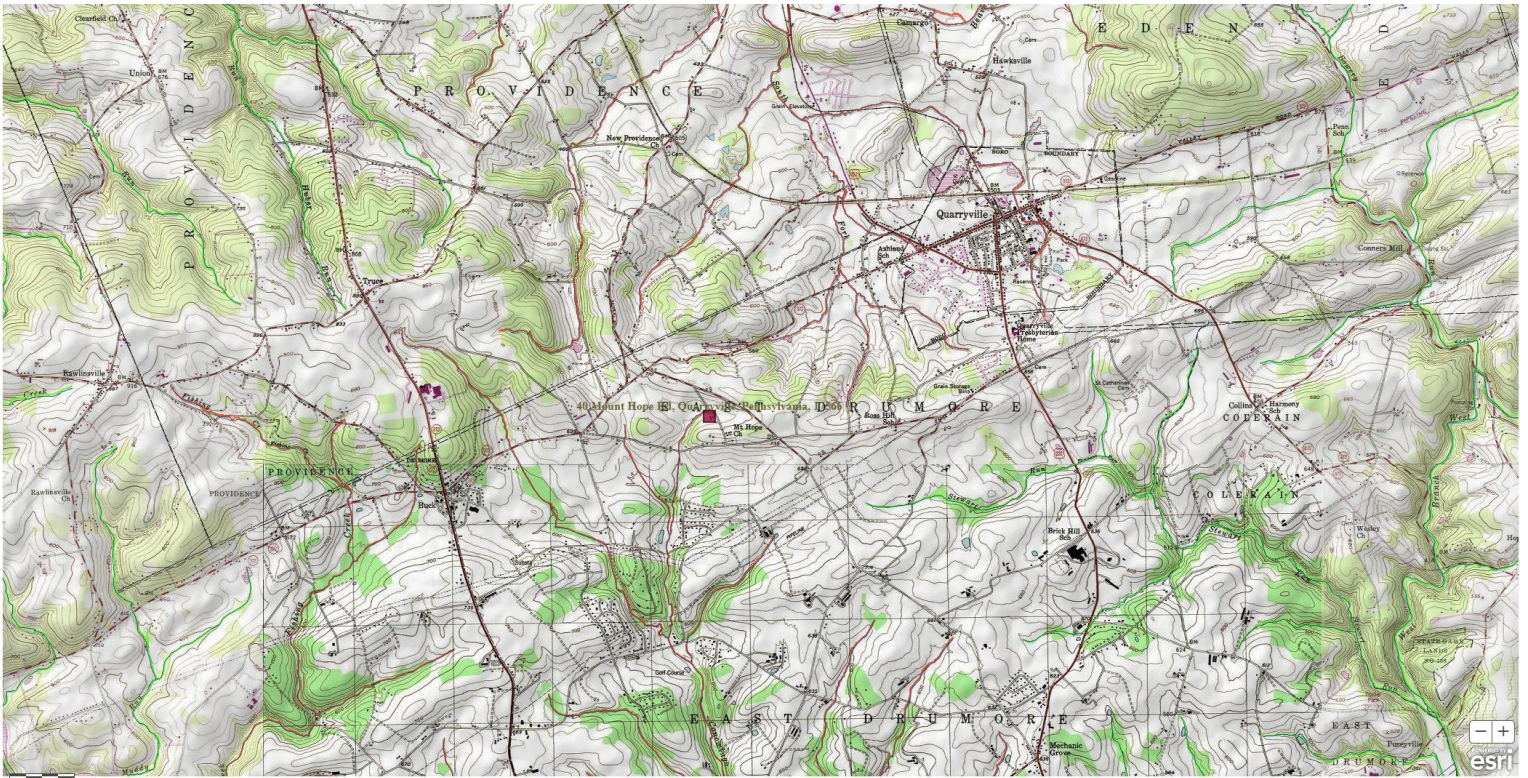
Application Type New  
Facility Type CAFO  
Permit Type Individual

**NPDES PERMIT FACT SHEET  
CAFOs**

Application No. PA0291692  
APS ID 1072589  
Authorization ID 1412429

**Applicant and Facility Information**

|                           |   |              |  |
|---------------------------|---|--------------|--|
| Applicant Name            | <u>Hope Valley Dairy LLC</u>  | Farm Name    | <u>Hope Valley Dairy LLC</u>                                   |
| Applicant Address         | <u>40 Mount Hope Road</u><br><u>Quarryville, PA 17566-9255</u>  | Farm Address | <u>40 Mount Hope Road</u><br><u>Quarryville, PA 17566-9255</u> |
| Applicant Contact         | <u>James Delong</u>   | Farm Contact | <u>James Delong</u>  |
| Applicant Phone           | <u>(717) 786-4186</u>   | Farm Phone   | <u>(717) 786-4186</u>  |
| Client ID                 | <u>372729</u>   | Site ID      | <u>860200</u>  |
| SIC Code                  | <u>0241</u>   | Municipality | <u>East Drumore Township</u>                                   |
| SIC Description           | <u>Agriculture - Dairy Farms</u>  | County       | <u>Lancaster</u>   |
| Date Application Received | <u>October 3, 2022</u>  | WQM Required | <u>No</u>  |
| Date Application Accepted | <u>October 20, 2022</u>   | WQM App. No. | <u>N/A</u>   |
| Project Description       | <u>Hope Valley Dairy LLC submitted an Individual NPDES CAFO permit application for new CAFO coverage.</u> |              |  |



| Approve | Deny | Signatures   | Date             |
|---------|------|--|------------------|
| X       |      | <i>Hans D. Shollenberger</i><br>Hans D. Shollenberger / Environmental Engineering Specialist | October 21, 2022 |
| X       |      | <i>Scott M Arwood</i><br>Scott M. Arwood, P.E. / Environmental Engineer Manager              | 10/21/2022       |

**Description:**

Hope Valley Dairy LLC submitted an Individual NPDES CAFO permit application for new CAFO coverage for their dairy and crop farm in East Drumore Township, Lancaster County. The operation is considered a CAO for exceeding 8 AEUs and for having an animal density exceeding 2 AEUs/Acre. The operation is considered a large CAFO for being a CAO that exceeds 300 AEUs and for being an operation exceeding 1,000 AEUs. The operation will have the following animal population:

| Animal Type              | Number              | AEUs            |
|--------------------------|---------------------|-----------------|
| Holstein Cow             | 615                 | 891.75          |
| Holstein Heifer: 1-2 yr. | 150                 | 150.00          |
| 8-12 Month Calves        | 170                 | 108.80          |
| 2-7 Month Calves         | 80                  | 27.04           |
| 0-1 Month Calves         | 20                  | 2.36            |
|                          | <b>Total AEUs =</b> | <b>1,179.95</b> |

The nearest receiving water is Conowingo Creek, designated as high-quality cold-water fishes and migratory fishes (HQ-CWF, MF), located in Watershed 7-K. This stream is impaired by habitat modification and agriculture nutrients and siltation. The Department’s Individual NPDES CAFO permit is appropriate for this operation.

**Manure/Nutrient Management:**

The current NMP was approved on June 1, 2022 for crop years 2023, 2024, and 2025. There are 557.9 acres available on lands owned and/or rented by the applicant for manure application according to the NMP, resulting in a density of 2.11 AEUs/acre.

*Manure Group Information:*

| Manure Group               | Manure Generated Annually | Manure Used on the Farm | Manure Exported (gallons or tons) |
|----------------------------|---------------------------|-------------------------|-----------------------------------|
| Fall Liquid Dairy Barn     | 1,988,213.5 gal           | 2,324,600.0 gal         | 0.0                               |
| Spring Liquid Dairy Barn   | 2,029,215.0 gal           | 2,644,700.0 gal         | 0.0                               |
| Fall Liquid Heifer Barn    | 558,403.7 gal             | 834,500.0 gal           | 0.0                               |
| Spring Liquid Heifer Barn  | 606,870.7 gal             | 911,000.0 gal           | 0.0                               |
| Fall Solid                 | 473.5 tons                | 715.6 tons              | 0.0                               |
| Fall Solid - uncollected   | 37.9 tons                 | 37.9 tons               | 0.0                               |
| Spring Solid               | 508.9 tons                | 1500.0 tons             | 0.0                               |
| Spring Solid - Uncollected | 0.0                       | 37.9 tons               | 0.0                               |

*Exported Manure:*

| Name/ Address                            | Amount and Source of Manure Exported per Season (gallons/ tons) |        |      |        |
|--|---|--------|------|--------|
|  | Spring  | Summer | Fall | Winter |
| No manure is exported off this operation |   |        |      |        |

**Winter Manure Management:**

Application of manure during the winter period is approved in the NMP for crop year 2023 on fields B25, B26, B27, H8, H9A, H10, I11, P1-3, P5B, P8B, P11, T1, T2, T3, T4. Winter manure application is approved for crop year 2024 on fields B25, B26, B27, H6B, H8, H9A, H10, H11A, H12, P1-3, T1, T2, T3, T4. Winter manure application is approved for crop year 2025 on fields B17, B19-20, B25, B26, B27, H6B, H8, H9A, H10, H12, I2B, I4, I6, I8, P1-3, T1, T2, T3, T4.

Manure storage facilities should have adequate freeboard on December 15 to implement the NMP. Below are the minimum freeboards that should be available on December 15<sup>th</sup>:

| Storage       | Minimum Freeboard on December 15 <sup>th</sup> |
|---------------|--|
| Dairy Cow Pit | 12.5 ft  |
| Heifer Pit    | 5.5 ft   |

The concrete stacking pad should have a minimum of 64% available storage capacity on December 15th.

**Manure Storage Facilities:**

| Storage Name                            | Type                   | Dimensions                | Freeboard                 | Usable Capacity              |
|---|------------------------|---------------------------|---------------------------|------------------------------|
|   | <i>Liquid or solid</i> | <i>Feet x feet x feet</i> | <i>Minimum regulatory</i> | <i>Gallons or cubic feet</i> |
| Dairy Cow Pit                           | Liquid                 | 120' x 12'                | 2 ft                      | 846,026 gal                  |
| Heifer Pit                              | Liquid                 | 120' x 12'                | 2 ft                      | 846,026 gal                  |
| Concrete Stacking Pad (@ Ken Farmstead) | Solid                  | 50' x 50' x 4'            | N/A                       | 10,000 ft <sup>3</sup>       |

There are no proposed manure storage facilities for this operation and no planned alternative manure technology practices. There are no plans to field stack manure on this operation.

**BMPs Applicable to the Chesapeake Bay TMDL**

DEP has evaluated the information included in the application materials; as well as the effluent limitations, BMPs, and other requirements included in the draft permit. This would include the approved Act 38 compliant Nutrient Management Plan, which includes Best Management Practices to meet Pennsylvania nutrient and manure management regulations, as well as Nutrient Balance Sheets for manure importers, applicable manure storage and manure spreading setback requirements, and Emergency Response Plan. Required Conservation Plans and/or Agricultural Erosion & Sediment Control Plans were also evaluated, which includes Best Management Practices to meet Pennsylvania erosion and sediment control regulations.

The applicant is implementing the following BMPs within the production area:

- Manure Storage Facilities
- Mortality Management

The approved Nutrient Management Plan lists best management practice Critical Area Planting Code 342 for pasture 4 with an implementation season and year of Spring 2022.

Based upon this evaluation, DEP believes no additional BMPs will be required at this time to meet the goals and requirements of the Chesapeake Bay TMDL and to protect water quality criteria. This determination will be reevaluated through review of quarterly self-inspection reporting, annual reporting, and regular compliance inspections.

**Animal Mortality:**

Animal mortalities are removed from barns and placed in a compost pile located adjacent to the Northwest corner of farm field (P15). This pile is periodically turned, and the finished compost is land applied.

**Animal Concentration Areas (Chapter 102.4a):**

Animal Heavy Use Areas (AHUAs) are designated in the NMP and will be managed according the provisions of the NMP. An animal concentration area is located in the 8-acre Sam plot just south of pasture 4.

**Chapter 102 E&S (Conservation Plans):**

Agricultural E&S Plans have been included and verified to exist for land subjected to plowing and tilling activities. Some of the PA Tech Guide Practice Codes referenced in the E&S plans included forage and biomass planting (512), forage harvest management (511), prescribed grazing (528), heavy use area protection (561), and waste storage facility – concrete circular (313).

**Downstream Public Water Supplies:**

The nearest public water supply intake is located over 16 miles downstream across the Pennsylvania Maryland state line. This operation is not expected to impact any public water supplies.

**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.