

# Drinking Water & Groundwater Protection Division - Permit Application

## Wastewater System & Potable Water Supply

**For Office Use Only:**

Application#	PIN#	Date Complete Application Received

**General Information:**

**IMPORTANT:** This application form **IS NOT** intended to be printed and filled out by hand. Because of the dynamic nature of the form, it is required that the information be typed directly into the fields using a computer.

In most cases a licensed designer will be required for your project and to help complete this application form. There are also line-by-line instructions available to assist with completing this form: <http://dec.vermont.gov/sites/dec/files/dwgwp/wastewater/pdf/WWAppInstructionsRules.pdf>.

**NOTE: We strongly suggest referring to the application instructions while completing this application form.**

**A. Prior Permits**

1 Please enter any prior or related WW permit or Act 250 permit number(s) (if applicable)

WW-138-1609

**B. Project Name**

1 Please enter a name that can be used as a reference for the project

Philo Ridge Farm

**C. Landowner Information****Landowner Name**

1 Legal Entity/Organization Name (if the Landowner is a legal entity or organization rather than a person)

Petdia, LLC d/b/a Philo Ridge, LLC

2 Landowner First Name (and Middle Initial if appropriate)

3 Landowner Last Name

**Landowner Contact Information**

4 Mailing Address Line 1

2766 Mount Philo Road

5 Mailing Address Line 2

6 City

Charlotte

7 State/Province

VT

8 Country

United States

9 Zip/Postal Code

05445

10 Email Address

dianamccargo@me.com

11 Telephone

(802) 735-6904

**Landowner Certifying Official Information (if applicable)**

12 First Name (and MI if appropriate)

Diana

13 Last Name

McCargo

14 Title

Manager

15 Email Address

dianamccargo@me.com

16 Telephone

(802) 735-6904

Add Another Landowner

**D. Primary Contact Information (if other than Landowner)**

1 First Name (and Middle Initial if appropriate)

David

2 Last Name

Marshall

3 Company/Organization Name

Civil Engineering Associates, Inc

4 Mailing Address Line 1

10 Mansfield View Lane

5 Mailing Address Line 2

6 City

South Burlington

7 State/Province

VT

8 Country

United States

9 Zip/Postal Code

05403

10 Email Address

dmarshall@cea-vt.com

11 Telephone

(802) 864-2323

**E. Lot(s) Affected by this Project**

1 Please list any and all proposed lots or existing parcels that are directly affected by this project. If this application is an amendment to a previous project, please use consistent lot numbers.

(a) Existing or Proposed Lot	(b) Lot Number	(c) SPAN	(d) Parcel ID	(e) Acres	X
Existing	W	138-043-10487	05-04-23.0	78.2	
(f) Book Number (ref. 1)	(g) Page Number(s) (ref. 1)	(h) Book Number (ref. 2)	(i) Page Number(s) (ref. 2)	(j) Book Number (ref. 3)	(k) Page Number(s) (ref. 3)
190	436				

(l) Comments

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**F. Project Information**

## 1 Project Description

The applicant seeks permit coverage for the construction of an additional wastewater system and new force main installation. There is a proposed increase in design flows. The existing wastewater disposal field to the west will continue to be used for flows from the Brick House and 10% of the Common Barn flows and 90% of the Common Barn flows will flow to a new mound system that is proposed to be installed on the east side of Mt. Philo Road.

2 Total Acreage of Property	3 Town (primary)	4 Town (secondary - if located in more than one town)
78.2	Charlotte	

5 Street Address (911 address if available, otherwise a brief description of the location)

2766 Mount Philo Road

6 Center of property GPS coordinates - Enter the approximate center of the project coordinates using GPS set for NAD83 or as derived from a map (map must be based on NAD83).

(a) Latitude (in decimal degrees to five decimal places, ex. 44.38181°)	(b) Longitude (in decimal degrees to five decimal places, ex. -72.31392°)
44.31642	-73.22398

7 If someone from the Drinking Water &amp; Groundwater Protection Division's Regional Office has been to the property for a site visit, please indicate who visited the property and the date of the visit.

(a) Name of Staff Person	(b) Date of Visit (m/d/yyyy)
Brian Tremback	

**G. Application Fee**Please refer to the [Application Fee Schedule](#) prior to selecting the Application Fee Code for your project below.

1 Select Application Fee Code	2 Fee Amount Due
(RO2) Greater than 560 gpd and less than or equal to 2,000 gpd	\$870.00

**H. Wastewater System and Water Supply Component Details****Component Information:**

**PLEASE READ:** The purpose of this section is to provide supplementary information for system components when there are proposed changes to existing conditions or previous permits. In the case that the application includes site plans, the component names on this worksheet must match those on the site plans. If there is a prior permit, the component names must be labeled consistent with plans from the prior permit(s). It is **\*required\*** that, at a minimum, the following component types must be included for each application: final disposal; pre-treatment (if applicable); building unit(s); water treatment (if applicable); and water source. To add components after the third entry, click the green button labeled "Add Another Component". You may also insert components between components you've already added by clicking the "Insert Component Between" button. For large projects with many components, you may consider using the "Show/Hide Component Set Separator" button to separate sets (or groups) of connected components by naming each set. For additional instructions, please review the appendix to the application instructions: <http://dec.vermont.gov/sites/dec/files/dwgwp/wastewater/pdf/WWAppInstructionsRules.pdf>.

**Component 1 Information**



Component Group Type	(WW) Final Disposal	Component Type	At Grade
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--Component 1 Details--

Component Name	Existing WW System Brick House Office Disposal Field		
Lot # Physical Location	W	Change Type	Decreased Flow
WW Design Flow	368	Changes	Decreased flows to this wastewater system.
I/A Dispersal Type	General Dispersal	Comments	<p>This field was designed to take flows from the Brick House and from the Common Barn based on the wastewater design flow tables. The system was adequately sized to handle these flows, but real world use is larger than anticipated. With the additional wastewater disposal field being constructed, this wastewater system will contain Brick House flows and 10% of the Common Barn flows.</p> <p>Existing Flows 490 gpd</p> <p>Proposed Flows 100% of 280 gpd from Brick House 10% of 878 gpd from Common Barn Total Proposed Flows 368 gpd</p>
Variance Requested	<input type="checkbox"/>		
Design Approach (select all that apply, press Ctrl and Click to select multiple)	<ul style="list-style-type: none"> <li>Alternative Toilets</li> <li>Constructed Wetlands</li> <li>Existing - Unknown</li> <li>Filtrate</li> <li>Flow equalization</li> <li>No discharge (other than holding tank)</li> <li>Performance based</li> <li>Prescriptive</li> <li>Store and dose</li> <li>Subsurface drip distribution</li> <li>Time dosing</li> <li>Wastewater strength</li> </ul>		
Manufacturer			
Model Name			
Model Number			
As-Built Latitude			
As-Built Longitude			

[Insert Component Between](#)

**Component 2 Information** [Show/Hide Component Set Separator](#) [Remove This Component](#)

Component Group Type	(WW) Final Disposal	Component Type	Mound
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**--Component 2 Details--**

Component Name	Proposed Mound System Common Barn Processing Facility		
Lot # Physical Location	W	Change Type	New System
WW Design Flow	790	Changes	New system to be connected to the existing D-Box and pump station with a proposed force main to be bored under Mt. Philo Road.
I/A Dispersal Type	General Dispersal	Comments	<p>Will receive 90% of the flows from the Common Barn.</p> <p>Proposed Wastewater Flows 90% of 878 gpd from Common Barn Total Proposed Flows = 790 GPD</p>
Variance Requested	<input type="checkbox"/>		
Design Approach (select all that apply, press Ctrl and Click to select multiple)	<ul style="list-style-type: none"> <li>Alternative Toilets</li> <li>Constructed Wetlands</li> <li>Existing - Unknown</li> <li>Filtrate</li> <li>Flow equalization</li> <li>No discharge (other than holding tank)</li> <li>Performance based</li> <li>Prescriptive</li> <li>Store and dose</li> <li>Subsurface drip distribution</li> <li>Time dosing</li> <li>Wastewater strength</li> </ul>		
Manufacturer			
Model Name			
Model Number			
As-Built Latitude			
As-Built Longitude			

[Insert Component Between](#)

Component 3 Information		Show/Hide Component Set Separator	Remove This Component
Component Group Type	Building	Component Type	Building-Unit
<b>--Component 3 Details--</b>			
Component Name	Brick House Office		
Lot # Physical Location	W	Change Type	Increased Flow (No Construction)
WW Permitted Flow	280	Changes	Increased Flows
WS Permitted Flow	280	Comments	<p>Existing Wastewater Flows 6 Employees x 15gpd/employee = 90 gpd</p> <p>Proposed Wastewater Flows 1 commercial sinks x 100 gpd/sink = 100 gpd 12 Employees x 15gpd/employee = 180 gpd Total Flows = 280 GPD</p>
Flow Basis	Rule		
Insert Component Between			
Component 4 Information		Show/Hide Component Set Separator	Remove This Component
Component Group Type	Building	Component Type	Building-Unit
<b>--Component 4 Details--</b>			
Component Name	Commons Barn		
Lot # Physical Location	W	Change Type	New Connection or Increased Flow
WW Permitted Flow	878	Changes	Split flows from the Common Barn
WS Permitted Flow	878	Comments	<p>90% of the flows will go to the new Wastewater Disposal field east of Mt. Philo Road and 10% will continue to the existing Wastewater Disposal field on the west side of Mt. Philo Road.</p> <p>Existing Wastewater Flows 3 commercial sinks x 100 gpd/sink = 100 gpd 9 Employees x 15 gpd/employee = 135 gpd [10% low flow credit = 43.5 gpd] Total Existing Flows = 392 GPD</p> <p>Proposed Wastewater Flows 1 Deli x 150 gpd/deli = 150 gpd 3 Commercial sinks x 100 gpd/sink = 300 gpd 35 Employees x 15 gpd/employee = 525 gpd [10% low flow credit = 98 gpd] Total Proposed Flows = 878 GPD</p>
Flow Basis	Rule		
Insert Component Between			
Component 5 Information		Show/Hide Component Set Separator	Remove This Component
Component Group Type	(WS) Source	Component Type	Potable
<b>--Component 5 Details--</b>			

Component Name	Brick House Well (Private Well #7363)		
Lot # Physical Location	W	Change Type	Increased Flow (No Construction)
Source Type	Drilled/Driven Well	Changes	Increased Flows
WS Design Flow	280	Comments	Existing Wastewater Flows 6 Employees x 15gpd/employee = 90 gpd  Proposed Wastewater Flows 1 commercial sinks x 100 gpd/sink = 100 gpd 12 Employees x 15gpd/employee = 180 gpd Total Flows = 280 GPD
Allocation Approval	<input type="checkbox"/>		
Construction Approval	<input type="checkbox"/>		
Variance Requested	<input type="checkbox"/>		
As-Built Latitude			
As-Built Longitude			

Insert Component Between

**Component 6 Information**

Show/Hide Component Set Separator

Remove This Component

Component Group Type	(WS) Source	Component Type	Potable
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**--Component 6 Details--**

Component Name	Commons Barn Well		
Lot # Physical Location	W	Change Type	Increased Flow (No Construction)
Source Type	Drilled/Driven Well	Changes	Increased flows
WS Design Flow	878	Comments	Existing Wastewater Flows 3 commercial sinks x 100 gpd/sink = 100 gpd 9 Employees x 15 gpd/employee = 135 gpd [10% low flow credit = 43.5 gpd] Total Existing Flows = 392 GPD  Proposed Wastewater Flows 1 Deli x 150 gpd/deli = 150 gpd 3 Commercial sinks x 100 gpd/sink = 300 gpd 35 Employees x 15 gpd/employee = 525 gpd [10% low flow credit = 98 gpd] Total Proposed Flows = 878 GPD
Allocation Approval	<input type="checkbox"/>		
Construction Approval	<input type="checkbox"/>		
Variance Requested	<input type="checkbox"/>		
As-Built Latitude	44.317309		
As-Built Longitude	-73.224086		

Insert Component Between

Add Another Component

**I. Project Plan Reference**

1 Please provide the following information for all water supply and wastewater system plans being submitted.

(a) Sheet#	(b) Title	(c) Plan Date	(d) Last Revision Date	
C1.0	Proposed Overall Site Plan	10/1/2018		X
C1.1	Proposed Conditions Partial Site Plan	10/1/2018		X
C1.2	Proposed Conditions Partial Site Plan	10/1/2018		X
C1.3	Proposed Conditions Partial Site Plan	10/1/2018		X
C1.4	Proposed Conditions Partial Site Plan	10/1/2018		X
C2.0	Wastewater Details and Notes	10/1/2018		X
C2.1	Sewer Details	10/1/2018		X
C4.0	Site Specifications	10/1/2018		X
C4.1	Site Specifications	10/1/2018		X
C4.2	Site Specifications	10/1/2018		X

C4.3	Site Specifications	10/1/2018		X
C4.4	Site Specifications	10/1/2018		X
C4.5	Site Specifications	10/1/2018		X

Add Another Plan Reference

### J. Project Scoping Questions

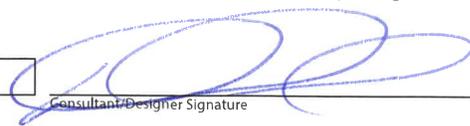
1	Does this project involve the replacement of a failed wastewater system?	<input type="radio"/> Yes <input checked="" type="radio"/> No
2	Does this project involve the replacement of a failed water supply?	<input type="radio"/> Yes <input checked="" type="radio"/> No
3	Does this project involve construction within the buffer for a Class 2 Wetland?	<input type="radio"/> Yes <input checked="" type="radio"/> No
4	Does this project involve construction within a river corridor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
5	Is the property within 250 feet of the mean water level of lakes greater than 10 acres in size?	<input type="radio"/> Yes <input checked="" type="radio"/> No
6	Will the project require a public water supply permit?	<input type="radio"/> Yes <input checked="" type="radio"/> No
7	Is any portion of the proposed wastewater system located in a Water Source Protection Area (SPA) as designated by the Drinking Water & Groundwater Protection Division?	<input type="radio"/> Yes <input checked="" type="radio"/> No
8	Does this project require an Underground Injection Control Permit?	<input type="radio"/> Yes <input checked="" type="radio"/> No
9	Is this project located in a Class A Watershed?	<input type="radio"/> Yes <input checked="" type="radio"/> No
10	If this project is in a Class A Watershed, does the design flow for the project exceed 1,000 gpd or is the project located on the same lot as other buildings, structures, or campgrounds where the total design flow for the lot is greater than 1,000 gpd?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> NA
11	Are any of the proposed water sources located within 1 mile of a hazardous waste site as designated by the Waste Management & Prevention Division and identified on the Agency mapping website (if Yes, please submit additional information on the site)?	<input type="radio"/> Yes <input checked="" type="radio"/> No
12	Does any building(s) on the property or the proposed project include any floor drains?	<input type="radio"/> Yes <input checked="" type="radio"/> No
13	If there are existing floor drains, where do they discharge?	Select One
14	Does this project involve only a single family residence with no in-home business?	<input type="radio"/> Yes <input checked="" type="radio"/> No
15	Does this project include a discharge of wastewater to a soil-based wastewater treatment system?	<input checked="" type="radio"/> Yes <input type="radio"/> No
16	Select any of the following activities that are part of the project, regardless of discharges. If none of the activities listed apply to the project, select "Not Applicable". If more than one item in the list applies to your project, click the "Add Another Activity" button to add another activity.	
	Not Applicable	X
	Add Another Activity	
17	Is there a wastewater discharge from the activities selected in the previous question?	<input type="radio"/> Yes <input checked="" type="radio"/> No

### K. Consultant/Designer Certification

#### Consultant/Designer Certification & Copyright License

"I hereby certify that in the exercise of my reasonable professional judgment, the design-related information submitted with this application is true and correct, and that the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules.

As the individual who prepared this application, including all documents that are marked as copyrighted, I hereby grant a non-exclusive, limited license to the State to allow the documents to be made available for public review and copying in order to properly implement and operate the permitting programs for Wastewater Systems and Potable Water Supplies, and for no other purposes. As a condition to this license, the State agrees that it will not make any changes to such documents, nor will the State delete any copyright notices on such documents."

WW/WS Designer	David S. Marshall, P.E.		10-22-18	X
Consultant/Designer Role	Print Consultant/Designer Name	Consultant/Designer Signature	Signature Date	
Add Second Consultant/Designer				

**L. Signatures & Acknowledgements of Landowner(s)**

*This application must be signed by each Landowner listed on the property deed or by individuals with legal authority to sign on behalf of each Landowner. In order to insure compliance with the requirements of the regulations administered by the Department of Environmental Conservation, Drinking Water and Groundwater Protection Division, it may be necessary to visit the property. As this would involve a Department employee entering private property, we request your approval to do so.*

*If we do visit your property, do you have any special instructions?*

*"By signing this application, I certify that I am a landowner listed on the property deed or that I have the legal authority to sign on behalf of the landowner. I understand that by signing this application I am granting permission for the Department employees to enter the property, during normal business hours, to insure compliance of the property with the applicable rules of the Department.*

*I also understand that I am not allowed to commence any site work or construction on this project without written approval from the Department of Environmental Conservation.*

*If my project utilizes an Innovative/Alternative System or Product, I have received a copy of the Drinking Water & Groundwater Protection Division's approval letter and agree to abide by the conditions of the approval.*

*I also certify that to the best of my knowledge and belief the information submitted above is true, accurate and complete."*

Diana L. McCargo  
Print Landowner Name

*Diana L. McCargo*  
Landowner Signature

Signature Date