

Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Emergency Certification Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Shutesbury General Wetlands Protection Bylaw

A. Emergency Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor do not use the return key.





Issuance From:	Shutesbury Conservation Commission
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Issuing Authority

1. Site Location: 64 Cushman Road, Shutesbury, DEP File 286-0288

2 Reason for Emergency:

Artesian well is uncontrolled and flooding front yard

3. Applicant to perform work: Dandelion Energy

4. Public agency to perform work or public agency ordering the work to be performed:

Emergency determined by Shutesbury Emergency Management Director

			* no later than 30 days from start date or 60 d
	10/6/23	10/6/23	10/31/2023
5.	Date of Site Visit:	Start Date:	End Date*:

* no later than 30 days from start date or 60 days in the case of an Immediate Response Action approved by DEP to address an oil/hazardous material release.

6. Work to be allowed*:

Addition of dry well to drain excess water from the artesian well; additional silt fences to be installed; shallow trench and 4' x 4'		
drywell; location of drywell is outside of the 50' Buffer Zone but is in inner Riverfront Area.		

^{*} May not include work beyond that necessary to abate the emergency.



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B. Signatures. See attached Certificate of Vote for digital signatures.

Certified to be an Emergency by this Issuing Authority.

Signatures:		
Míríam DeFant	Miriam DeFant	
Signature	Printed Name	

A copy of this form must be provided to the appropriate DEP Regional Office.

Printed Name

C. General Conditions

Signature

- 1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Emergency Certification or subject to enforcement action.
- 2. This Emergency Certification does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of property rights.
- 3. This Emergency Certification does not relieve the applicant or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
- 4. Any work conducted beyond that described above, and any work conducted beyond that necessary to abate the emergency, shall require the filing of a Notice of Intent.
- 5. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Emergency Certification at reasonable hours to evaluate compliance with this Certification, and may require the submittal of any data deemed necessary by the Conservation Commission or the Department for that evaluation.
- 6. This Emergency Certification shall apply to any contractor or any other person performing work authorized under this Certification.
- 7. No work may be authorized beyond 30 days from the date of this certification without written approval of the Department.



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D. Special Conditions		
5	See attached Special Conditions.	
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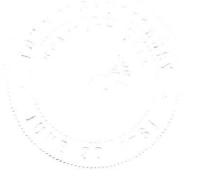
E. Appeals

The Department may, on its own motion or at the request of any person, review: an emergency certification issued by a conservation commission and any work permitted thereunder; a denial by a conservation commission of a request for emergency certification; or the failure by a conservation commission to act within 24 hours of a request for emergency certification. Such review shall not operate to stay the work permitted by the emergency certification unless the Department specifically so orders. The Department's review shall be conducted within seven days of: issuance by a conservation commission of the emergency certification; denial by a conservation commission of the emergency certification; or failure by a conservation commission to act within 24 hours of a request for emergency certification. If certification was improperly granted, or the work allowed thereunder is excessive or not required to protect the health and safety of citizens of the Commonwealth, the Department may revoke the emergency certification, condition the work permitted thereunder, or take such other action as it deems appropriate.

CERTIFICATE OF VOTE AUTHORIZING SIGNATURES PURSUANT TO M.G.L. c.110G

On May 14, 2020, the Shutesbury Conservation Commission met in open session through publicly accessible video-conference software, pursuant to the "Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20," issued by Governor Charles D. Baker on March 12, 2020. At this duly held meeting, the following action was taken:

Motion: Shutesbury Conservation Commission hereby recognizes and accepts the provisions of M.G.L. c.110G regarding electronic signatures and that its members will henceforth execute documents either with electronic signatures or with wet ink signatures and that both will carry the same legal weight and effect. Motion was seconded.



Roll Call vote:



SHUTESBURY CONSERVATION COMMISSION

SPECIAL CONDITIONS FOR EMERGENCY CERTIFICATION 64 CUSHMAN ROAD

Landowner: Nate and Anna Heard

Applicant: Dandelion Energy

Date: October 6, 2023

Findings:

F1. The Applicant proposes to install a trenched drywell to accept drainage from an uncontrolled artesian well that resulted from installation of a geothermal energy system Repeated efforts to grout the well have been unsuccessful. Flooding constitutes a hazard to the home.

F3. The proposed measures are changes to the Amended Order of Conditions, DEP File Number 286-0288, issued 5/26/23.

F4. The Shutesbury Emergency Management Director has determined the current state is an imminent threat to public health and safety due to the uncontrolled flooding in proximity to the home.

Special Conditions

- 1. The proposed additional work shall be subject to all applicable Special Conditions in the Amended Order of Conditions for 64 Cushman Road, DEP File # 286-0288.
- **2.** No tree removals are approved with this Emergency Certification. Existing vegetation shall be preserved to the greatest extent practicable.
- 3. Additional erosion controls shall be installed downgradient of the drywell area.
- **4.** The Applicant shall submit photographs of the erosion controls and receive an email confirmation from the Commission before the commencement of any other work.
- **5.** The area of the drywell shall be mulched with wood chips upon completion of the work to prevent erosion.
- **6.** The Applicant shall contact the Commission to conduct a monitoring site visit upon the completion of the emergency work.

Permission for Site Visit given by:	Anna Heard				
Date permission given: 11/6/23	(Owner, applicant, other) Permission received by: M. DeFanmt				
Shutesbury Conservation Commission Site Visit Summary					
Observation Date: 11/6/23	Time: 11:00 am				
Project Address/Location: 64 Cush	man Road				
Applicant(s): Nate and Anna Hear	rd; Dandelion Energy				
DEP/Permit File#: 286-0288					
Type of Project: geothermal energy	system				
Attended:					
Commissioners: M. DeFan t					
Applicant(s)/Owner/Represen					
Abutters/Others (require land	owner's permission):				
Purpose of Visit: (check all apply)					
☐ Building Permit Application ☐ To assess whether RDA or NOI is req ☐ As part of RDA meeting ☐ As part of NOI hearing ☐ Verify staked boundaries ☐ Pre-construction site visit	☐ Monitor Order of Conditions ☐ Request to amend Order of Conditions ☐ Request for Certificate of Compliance ☐ Work done without permit				
Other (describe):					
reports that grouting has been unsu Landowner showed area for propos	Artesion well conditions; area around well is saturated; contractor uccessful; well is under pressure and leak is not under control; sed drywell which is more than 50' upgradient from then nearest ner suitable location; ground disturbance will be temporary and				
Recommendations:					
Issue EC. Advise contractor abo	out silt fences.				
Prepared by: Miriam DeFant, Commissionerer					
Name	Title				

Note: Consider relevant aspects or features such as natural or piped drainage or obvious pollution, topography, alternative locations, existing vegetation, signs of wildlife, vernal pools, rare species habitat, proximity to water bodies or drainage areas, landmarks, recent or historical disturbances, adjacent land use. Very information presented, identify problems and potential solutions.

Site visit Preamble: Pursuant to the MA Open Meeting Law, the Commission performs site visits only for the purposes of observing conditions, collecting information, and providing guidance to applicants. Decisions, approvals, and denials can be made only by the Commission at a properly advertised public meeting or hearing. Site visit discussions with Commissioners should be kept to a minimum and should in no way be construed to result in final decisions of any kind.



Shutesbury Fire Department P.O. Box 295 42 Leverett Road Shutesbury, MA 01072

(413) 259-1211

E-mail firedpt@shutesbury.org



Fire Chief Leonard T. Czerwonka

October 5, 2023

To Whom it may concern:

October 4th I received a phone call from Dandelion Energy stating they are installing a Geothermal well at 64 Cushman Rd, and encountered a problem that requires an emergency permit. The emergency permit is needed to fix the flooding water problem that they had encountered. After visiting the job sight that Wednesday, the foreman showed me that an Artesian well has formed at the drill hole resulting in unstoppable water. If left unchecked will flood the driveway and possibly the house. In order to minimize damage to the area the best course of action suggested by the site engineer is, to install a dry well around the closed loop geothermal well to prevent flooding to the existing area.

Leonard Czerwonka Shutesbury Fire Chief, Emergency Management Director.

DANDELION

To whom it may concern,

Enclosed is the proposed site plan for the installation of a dry well at 64 Cushman Rd, Amherst, MA 01002, USA.

This dry well installation is being requested to resolve on site issues that arose when an artesian well was created during the installation of the second closed loop geothermal well. We are also proposing additional silt fences around the new excavation area.

Dry Well Construction

During the installation of the close loop geothermal well the crew made several attempts to cap and grout the existing bore location. An artesian well was created due to high hydraulic pressure in the well and our field crews were unable to cap or grout the bore hole using standard methods. This resulted in excess ground water coming out of the well and flooding the work area and surrounding yard. To prevent flooding to the existing home, and to reduce erosion from the front yard into the wetlands we would like to install a dry well.

Our current plan consists of excavating a shallow trench from the geothermal well to the dry well location. We will install a 3" pipe from the geothermal well casing to the dry well location to direct the flow of water away from the home.

When both the drain and dry well have been constructed the trench will be backfilled with the original soil.

Erosion Control Changes

We are proposing the installation of a silt fence around the 4'x4' dry well pit, along with installation along the trench for the drywall piping. This will be installed before work is started on the dry well installation and will be removed when the work is completed to allow for the installation of the geothermal trench later this month.

The existing silt fence will be maintained during this process and any silt fence damaged during this process will be repaired once the dry well specific silt fence is removed.

Please let me know if the new site plan is acceptable. You can reach me at my cell phone number or email address below.

Hannah Kowalski

Permit and Inspection Coordinator HKowalski@DandelionEnergy.com (860) 301-7100

64 Cushman Road, Shutesbury, MA: Ground-source Heat Pump Site Plan

Prepared by: Nate Heard, Updated by Bob Braunlich October 6th 2023

