

**Commonwealth of Massachusetts**  
**Executive Office of Environmental Affairs ■ MEPA Office**

**ENF Environmental Notification Form**

*For Office Use Only*  
*Executive Office of Environmental Affairs*

EOEA No.: *13949*  
 MEPA Analyst: *Ann6 Canaday*  
 Phone: 617-626-*1035*

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Rexhame Area Stream Restoration and Culvert Improvement Project		
Street: Drainage Channel between Ocean St. and Constitution St.		
Municipality: Marshfield	Watershed: Massachusetts Bay	
Universal Transverse Mercator Coordinates: 521481.7E, 13326449N (NAD83)	Latitude: 42d 06' 33" N	Longitude: 70d 40' 06" W
Estimated commencement date: Spring 2007	Estimated completion date: Fall 2008	
Approximate cost: \$860,000	Status of project design:	100 %complete
Proponent: Marshfield Department of Public Works		
Street: 870 Moraine Street		
Municipality: Marshfield	State: MA	Zip Code: 02050
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Jeffrey W. Oakes		
Firm/Agency: CLE Engineering, Inc.	Street: 15 Creek Road	
Municipality: Marion	State: MA	Zip Code: 02738
Phone: 508-748-0937	Fax: 508-748-1363	E-mail: joakes@cleengineering.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?  
 Yes  No
- Has this project been filed with MEPA before?  
 Yes (EOEA No. \_\_\_\_\_)  No
- Has any project on this site been filed with MEPA before?  
 Yes (EOEA No. \_\_\_\_\_)  No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8))  Yes  No
  - a Special Review Procedure? (see 301 CMR 11.09)  Yes  No
  - a Waiver of mandatory EIR? (see 301 CMR 11.11)  Yes  No
  - a Phase I Waiver? (see 301 CMR 11.11)  Yes  No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): An application to the Hazard Mitigation Grant Program has been submitted; however, funds from the Commonwealth will not be available.

Are you requesting coordinated review with any other federal, state, regional, or local agency?  
 Yes (Specify: )  No

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- |                                 |                                       |  |
|---------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Land   | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water  | <input type="checkbox"/> Wastewater   | <input type="checkbox"/> Transportation                              |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air          | <input type="checkbox"/> Solid & Hazardous Waste                     |
| <input type="checkbox"/> ACEC   | <input type="checkbox"/> Regulations  | <input type="checkbox"/> Historical & Archaeological Resources       |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
<b>LAND</b>				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MHC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input checked="" type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify: ACOE Category 2 permit</i>
Total site acreage	0.60			
New acres of land altered		0.60		
Acres of impervious area	0.33	0	0.33	
Square feet of new bordering vegetated wetlands alteration		1,900		
Square feet of new other wetland alteration		12,600		
Acres of new non-water dependent use of tidelands or waterways		0		
<b>STRUCTURES</b>				
Gross square footage	0	0	0	
Number of housing units	0	0	0	
Maximum height (in feet)	0	0	0	
<b>TRANSPORTATION</b>				
Vehicle trips per day	0	0	0	
Parking spaces	0	0	0	
<b>WATER/WASTEWATER</b>				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	0	0	0	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	0	0	0	

**CONSERVATION LAND:** Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

Yes (Specify \_\_\_\_\_)  No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify \_\_\_\_\_)  No

**RARE SPECIES:** Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify \_\_\_\_\_ )  No

**HISTORICAL /ARCHAEOLOGICAL RESOURCES:** Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify \_\_\_\_\_ )  No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify \_\_\_\_\_ )  No

**AREAS OF CRITICAL ENVIRONMENTAL CONCERN:** Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify \_\_\_\_\_ )  No

**PROJECT DESCRIPTION:** The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

a) The Rexhame area of Marshfield experiences drainage problems and flooding in and along an open drainage channel that runs southerly from Rexhame Road to Ocean Street between Surf Avenue and Country Way. Periodic flooding occurs due to the channel's low elevation, downstream drainage conditions in Bass Creek and lack of culvert capacity at roadways that cross the channel. The channel has an extremely irregular, flat slope and the bottom of the channel is below mean sea level and the groundwater table. Because the channel has such a flat gradient and is constantly full of water, the water becomes stagnant during dry weather. Also the bottom of the channel is unstable such that it presents a safety concern for children in the area. This project has been initiated by the Marshfield Department of Public Works (DPW) to restore the channel to a safe and healthy condition and improve drainage conditions.

b) Previous attempts have been made by the Town to clean the channel in order to make it drain. However, the underlying soils within the channel are unstable in some locations such that working in the channel is not safe or practical. In addition, the unstable channel bottom presents a safety issue for young children in the area. Previous recommendations presented by Coler & Colantonio, Inc. to sheet, dredge and replace the existing channel bottom (and culverts) were deemed to be unviable by the Town from a cost and permitting standpoint.

The no-build alternative will disallow the proposed stream restoration project's goals to:

- Provide a uniform and stable channel bottom
- Reinforce banks to prevent settling, erosion and loss of vegetation
- Improve aerobic condition of channel by creating better drainage
- Improve function and values of existing stream
- Reduce flooding impacts in Rexhame Area neighborhood

c) The re-constructed channel will promote the flow of stormwater, thereby reducing the extent of stagnant water of low habitat value. The stabilization and planting of the Bank and Bordering Vegetated Wetland will also restore wetland functions and values to the drainage system. In addition to specific permit requirements developed by the Marshfield Conservation Commission the following restrictions are proposed:

1. Absolutely no release of any petroleum products or hydraulic fluid is allowed in the work area. The contractor will have sufficient sorbent pads on-site to contain any accidental spill. No refueling of the construction equipment will be allowed within the limits excavation and re-grading.
2. Excavated material and slash from the trimming of vegetation and removal from the channel will be properly disposed of away from the site.

3. Soil stabilization with hay mulch and soil roughening shall be performed immediately after soils are disturbed. Soil stabilization measures will be maintained until the vegetation is established.
4. Siltation fence and/or staked hay bales will be properly installed at the downstream end of each channel to capture sediment in the event of a rainfall event occurring while re-grading is underway and soils are susceptible to erosion.
5. Discharge from the de-watering pumps shall be directed into energy dissipating devices in order to allow for settling of suspended particles and to reduce scouring of the receiving channel.

**LAND SECTION – all proponents must fill out this section**

**I. Thresholds / Permits**

A. Does the project meet or exceed any review thresholds related to land (see 301 CMR 11.03(1))  
 Yes  No; if yes, specify each threshold:

**II. Impacts and Permits**

A. Describe, in acres, the current and proposed character of the project site, as follows:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Footprint of buildings	<u>0</u>	<u>0</u>	<u>0</u>
Roadways, parking, and other paved areas	<u>0.33</u>	<u>0</u>	<u>0.33</u>
Other altered areas (describe) Excavated channel	<u>0.38</u>	<u>0</u>	<u>0.38</u>
Undeveloped areas	<u>0</u>	<u>0</u>	<u>0</u>

B. Has any part of the project site been in active agricultural use in the last three years?  
 Yes  No; if yes, how many acres of land in agricultural use (with agricultural soils) will be converted to nonagricultural use?

C. Is any part of the project site currently or proposed to be in active forestry use?  
 Yes  No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a DEM-approved forest management plan:

D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97?  Yes  No; if yes, describe:

E. Is any part of the project site currently subject to a conservation restriction, preservation restriction, agricultural preservation restriction or watershed preservation restriction?  Yes  No; if yes, does the project involve the release or modification of such restriction?  Yes  No; if yes, describe:

F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A?  Yes  No; if yes, describe:

G. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B? Yes  No  ; if yes, describe:

H. Describe the project's stormwater impacts and, if applicable, measures that the project will take to comply with the standards found in DEP's Stormwater Management Policy:

I. Is the project site currently being regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes  No  ; if yes, what is the Release Tracking Number (RTN)?

J. If the project is site is within the Chicopee or Nashua watershed, is it within the Quabbin, Ware, or Wachusett subwatershed?  Yes  No; if yes, is the project site subject to regulation under the Watershed Protection Act?  Yes  No

K. Describe the project's other impacts on land: