



Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 14414
MEPA Analyst: Nick ZAVOLAS
Phone: 617-626-1030

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: Town of Orleans Comprehensive Wastewater Management Plan		
Street: 29 Overland Way (Proposed Wastewater Treatment Facility Site)		
Municipality: Orleans	Watershed: Cape and Islands	
Universal Transverse Mercator Coordinates:	Latitude: 41° 46' 56" Longitude: 70° 0' 20"	
Estimated commencement date: July 2012	Estimated completion date: 2030	
Approximate cost: \$150 million (2008 dollars)	Status of project design: Conceptual %complete	
Proponent: Town of Orleans		
Street: 19 School Street		
Municipality: Orleans	State: MA	Zip Code: 02653
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Heather Merriman		
Firm/Agency: Wright-Pierce	Street: 200 Brickstone Square Suite 505	
Municipality: Andover	State: MA	Zip Code: 01810
Phone: 978-470-0666	Fax: 978-470-3558	E-mail: hbm@wright-pierce.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)) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| a Special Review Procedure? (see 301 CMR 11.09) | <input checked="" type="checkbox"/> Yes* | <input type="checkbox"/> No |
| a Waiver of mandatory EIR? (see 301 CMR 11.11) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| a Phase I Waiver? (see 301 CMR 11.11) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> 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):

SRF loans expected from the Massachusetts Environmental Trust (amount TBD)

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Cape Cod Commission, Development of Regional Impact) No

* (Basis for requested Special Review Procedure)

List Local or Federal Permits and Approvals:

- Compliance with the federal Clean Water Act through nitrogen-based TMDLs as implemented by DEP.
- The project must comply with the Cape Cod Commission's Regional Policy Plan and undergo review as a Development of Regional Impact (DRI).
- Compliance with the regulations of the Old Kings Highway Regional Historic District is required for above-grade structures located in the District (all areas of Orleans north and west of Route 6A).
- The Town must issue building permits for treatment facilities and pumping stations after compliance with the State Building Code is demonstrated.

(See Section 11 of Draft CWMP Report, April 2009)

State Permits and Approvals:

- DEP approval of the CWMP.
- DEP Groundwater Discharge Permitting under 310 CMR 5.0. A groundwater discharge permit is required for the new wastewater facilities planned for the Tri-Town site. Depending on the plan for short-term septage management, the existing permit held by the Tri-Town District may need to be extended for two or more years beyond its current 2012 end date.
- DEP Plan Review is required for the proposed new wastewater treatment facility, once final plans and specifications have been prepared.
- DEP Site Assignment under MGL Chapter 83 Section 6 is required for any publicly-owned wastewater site. The existing site assignment for the Tri-Town site may need to be expanded to account for the proposed wastewater facilities.
- DEP Sewer Extension Permits will be needed for system expansion after completion of the first phase.
- Compliance with the Massachusetts Wetlands Protection Act and local supplemental bylaws is necessary for all impacts on protected resources.
- Review must be conducted under the Massachusetts Natural Heritage and Endangered Species Program, pursuant to the Massachusetts Endangered Species Act.
- Review must be conducted under the program of the Massachusetts Historical Commission.
- All activities must be consistent with the two Areas of Critical Environmental Concern.
- Permits are required from Mass Highway for all construction work in state roads.

(See Section 11 of Draft CWMP Report, April 2009)

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

- | | | |
|---------------------------------|--|---|
| <input type="checkbox"/> Land | <input checked="" type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input checked="" 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 checked="" type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input checked="" type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input checked="" type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i> <u>See list on Page 2.</u>
Total site acreage	27			
New acres of land altered		6.5		
Acres of impervious area	4	2	6	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	43,200	16,000	59,200	
Number of housing units	0	0	0	
Maximum height (in feet)	25	25	25	
TRANSPORTATION				
Vehicle trips per day	30	-4	26	
Parking spaces	7	5	12	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	640,000	640,000	
GPD water withdrawal	0	0	0	
GPD wastewater generation/ treatment	0	504,000	504,000	
Length of water/sewer mains (in miles)	0	74	74	

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

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.

A) Project Description

The Town of Orleans has completed a draft Comprehensive Wastewater Management Plan that identifies and evaluates 3 alternative plans to guide the improvement of coastal estuaries and freshwater ponds to meet state and federal mandates. The Recommended Plan is highly adaptable to accommodate measured progress in water quality improvement, future regional opportunities, effectiveness of lower-cost alternatives, and availability of favorable financing. To meet current mandates, a municipal sewer system is needed to serve one-half of Orleans' developed properties at an estimated capital cost of \$150 million to be spent over 15 to 20 years. That system includes 74 miles of municipal sewers, a single wastewater treatment facility and associated sludge/septage handling facilities.

B) Description of Impacts

The Recommended Plan is one of three alternative plans investigated by the town. These three plans are described in Section 6 of the draft CWMP. Sections 7 and 8 compare and contrast the three plans. Refer to Report Section 8.5 for a detailed list of potential environmental impacts including:

- Surface water quality*
- Groundwater quality*
- Wetlands*
- Floodplains*
- Coastal resources*
- Open space and recreation*
- Rare and endangered species*
- Archaeological and historic resources*
- Traffic*
- Air Quality*
- Noise*
- Energy*
- Generation of solid waste*
- Public health*
- Community growth and land use*

C) Potential Mitigation Measures

There are many mitigation measures that will be employed in the implementation of the Recommended Plan that will lessen its environmental impacts. These include:

- Restricting sewer construction work to the period of October to May to avoid periods of high traffic;*
- Segmenting sewer work on public streets to avoid protracted closures;*
- Designing sewer lines and pump stations to avoid floodplains and to minimize encroachment on the buffers of wetlands and other protected resource areas;*
- Restricting work hours on construction sites near residential areas;*
- Requiring contractors to implement dust control measures;*
- Erosion and siltation controls at all construction sites as part of site-specific stormwater management plans;*
- Compliance with all terms of Orders of Conditions for work in wetland buffers;*
- Installation of odor and noise control systems on operating equipment and facilities;*
- Implementation of policies that restrict potential odor-generating activities to times of the day with the least impact;*
- Compliance with applicable standards for construction activities near historic structures;*
- Facility siting to include appropriate mitigating measures as necessary for habitat of rare and endangered species;*
- Facility site design to include vegetated berms and appropriate plantings to maximize natural buffers; and*
- Selection of wastewater treatment equipment to minimize energy use and maximize nitrogen removal.*

Refer to Report Section 11 of the draft CWMP for more detail.