

# ENF Environmental Notification Form

<i>For Office Use Only</i> <i>Executive Office of Environmental Affairs</i>	
EOEA No.:	<u>14393</u>
MEPA Analyst:	<u>Holly Johnson</u>
Phone:	617-626- <u>1023</u>

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: Onset Fire District Well and Pump Station #7		
Street: Off Sand Pond Road		
Municipality: Wareham (Onset)	Watershed: Buzzards Bay	
Universal Transverse Mercator Coordinates: 19 363218E 4624834N	Latitude: N 41° 45' 49.1"	Longitude: W 70° 38' 42.2"
Estimated commencement date: 2009	Estimated completion date: 2010	
Approximate cost: \$1.5 Million	Status of project design:	20 %complete
Proponent: Onset Fire District Water Department		
Street: 15 Sand Pond Road		
Municipality: Wareham (Onset)	State: MA	Zip Code: 02558
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Robert Pickering, P.E.		
Firm/Agency: Haley and Ward, Inc.	Street: 25 Fox Road	
Municipality: Waltham	State: MA	Zip Code: 02451
Phone: (781) 890-3980	Fax: (781) 890-1491	E-mail: rpickering@haleyward.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. 9287)  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 301CMR 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): None

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

List Local or Federal Permits and Approvals: New source approval, Water Management Act amendment, and Order of Conditions.

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 type="checkbox"/> Wetlands, Waterways, & Tidelands      |
| <input checked="" 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 type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input checked="" type="checkbox"/> Water Management Act Permit <input checked="" type="checkbox"/> New Source Approval
Total site acreage	±360			
New acres of land altered		± 1.7		
Acres of impervious area	0.6	0.1	0.7	
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		<input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input checked="" type="checkbox"/> Other Permits (including Legislative Approvals) – Specify: _____ _____ _____ _____ _____
<b>STRUCTURES</b>				
Gross square footage	10,600	900	11,500	
Number of housing units	0	0	0	
Maximum height (in feet)	± 40	0	± 40	
<b>TRANSPORTATION</b>				
Vehicle trips per day	± 20	0	± 20	
Parking spaces	20	2	22	
<b>WASTEWATER</b>				
Gallons/day (GPD) of water use	± 300	0	± 300	
GPD water withdrawal	2.24 MGD Max Capacity	756,000 GPD Max Capacity	3.0 MGD Max Capacity	
GPD wastewater generation/treatment	± 250	0	± 250	
Length of water/sewer mains (in miles)	1.02	0.39	1.41	

**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 See attached NHESP letter of 1/8/2008 )  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.*)

The proposed well site is located on an undeveloped portion of the Onset Fire District's (OFD) ±360 acre property located off Sand Pond Rd. The OFD property consists primarily of densely forested woodland, a ±13 acre pond (Sand Pond), and several former cranberry bogs that have not been in use for over 20 years. The eastern boundary of the property also abuts Red Brook. Developed portions of the site include the OFD's existing four water supply wells, and their office/fire station at the southern most portion of the property, at the end of Sand Pond Rd. The topography of the site is undulating, with upland elevations generally between 20 and 50 ft. In the areas bordering Sand Pond and Red Brook elevations are generally between 10 and 20 ft.

The project consists of the development and construction of one gravel-pack well and associated ±700 sf pump station with chemical feed (sodium hydroxide) for corrosion control, and system controls. The pump station proposed would be similar to those already existing on the property. Approximately 2,000 linear feet of new water main and underground electric will be installed along an existing unpaved roadway to connect the well to the system. Please refer to the enclosed site plan for the locations of existing site features and the proposed locations of the pump station and water main/electric service.

The OFD is proposing the development of this site as a means of supplementing its current supply wells primarily to meet the system's peak summer demands. During periods of peak summer demand all four of the OFD's existing wells are generally required to keep up with the demand, not allowing sufficient periods of rest for each well. The OFD would like to be able to provide the necessary rest to the pumping systems in an effort to extend their useful life and minimize O&M needs and costs of well rehabilitations and pump replacements. An ongoing concern remains that, at the present time, with the largest supply (Well 6) off-line the system would not be able to meet their peak day demand. An additional supply well will supplement the OFD's existing sources, increase the reliability of the system, allow for increased flexibility in water management and aid in meeting present and future peak water demands.

It is not the intent of the OFD to increase their overall permitted withdrawal volume authorized by the Water Management Act. The amendment to their current Water Management Act Permit would be for the addition of a new withdrawal location only.

The majority of the OFD property is located within areas identified by the Natural Heritage and Endangered Species Program (NHESP) as both Priority Habitat of Rare Species and Estimated Habitat for state-listed animal species, necessitating filings with the NHESP and the local Conservation Commission. The required filing with NHESP under the Massachusetts Endangered Species Act is scheduled to be made very shortly. Approximately 700 linear feet of the proposed water main/electric service installation will occur within the 100-ft. buffer zone to Sand Pond and will thus be under the jurisdiction of the local Conservation Commission.

No long term impacts associated with the construction of the project or operation of the well are anticipated. Alterations to the property will be limited to slightly less than 2 acres, located primarily within or along existing clearings and/or unpaved roadways. A pump test was performed at the site in February 2008 and the Pump Test Report for the site is currently being prepared and will be submitted to MassDEP for review and approval shortly.

## PROJECT DESCRIPTION (continued)

### Alternatives Analysis

Alternatives to the proposed project were considered during the preparation of the Site Exam Request/Pump Test Proposal, in accordance with the MassDEP Water Management Program's requirements for New Source Approvals. Alternatives considered included interconnections with neighboring water systems, desalination, surface water supply, leak detection and conservation/demand management, other groundwater withdrawal points, and a no action alternative.

The ability to construct a groundwater supply in this area has been demonstrated several times, as the OFD has four other wells in this area. The underlying geologic formations are capable of yielding large quantities of fresh water with high water quality. Treatment requirements on these groundwater sources have generally been limited to pH adjustment for corrosion control purposes. The capital cost and operation and maintenance costs for a groundwater well and pump station compared favorably to the other options considered, making the development of a new groundwater source the most viable of the options considered.