

**Commonwealth of Massachusetts**

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

**ENF**

**Environmental Notification Form**

<i>For Office Use Only</i> <i>Executive Office of Environmental Affairs</i>	
EOEA No.:	12760
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: Test Well Site 6-00, Dennis Water District		
Street: Chestnut Street (2,000 feet north of Route 6, 1,200 east of Route 134)		
Municipality: Dennis	Watershed: Cape Cod	
Universal Transverse Mercator Coordinates: 19T 40 428 Met. East/46 17 407 Met. North	Latitude: 41°42'18"	Longitude: 70°09'00"
Estimated commencement date: Summer '02	Estimated completion date: Fall '02	
Approximate cost: \$600,000	Status of project design:	15 %complete
Proponent: Dennis Water District		
Street: 80 Old Bass River Road, P.O. Box 2000		
Municipality: Dennis	State: MA	Zip Code: 02660
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Maura E. Callahan		
Firm/Agency: Earth Tech	Street: 196 Baker Avenue	
Municipality: Concord	State: MA	Zip Code: 02742
Phone: 978-371-4008	Fax: 978-371-2468	E-mail: Mcallahan@earthtech.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 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): Approximately 14.6 acres were transferred from Town ownership to the Water District to meet Zone I radius requirements of the proposed public supply well.

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

List Local or Federal Permits and Approvals: BRP WS 19 Approval of Pumping Test Report, BRP WS 20 Approval to Construct and BRP WM 02 Amendment to Existing Withdrawal Permits

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 type="checkbox"/> Order of Conditions <input type="checkbox"/> Superceding 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 <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	13-acre	0	13-acre	
New acres of land altered	0	0.2	0.2	
Acres of impervious area	0	0.04	0.04	
Square feet of new bordering vegetated wetlands alteration	0	0	0	
Square feet of new other wetland alteration	0	0	0	
Acres of new non-water dependent use of tidelands or waterways	0	0	0	
<b>STRUCTURES</b>				
Gross square footage	0	1,500 sq. ft	1,500 sq. ft	
Number of housing units	0	0	0	
Maximum height (in feet)	0	30 ft	30 ft	
<b>TRANSPORTATION</b>				
Vehicle trips per day	0	2	2	
Parking spaces	0	2	2	
<b>WATER/WASTEWATER</b>				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	0	1.0 MGD	1.0 MGD	
GPD wastewater generation/ treatment	0	0	0	
Length of water/sewer mains (in miles)	0	0.25	0.25	

**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.)

The proposed project involves construction of a municipal drinking water supply well, a pumping station, a 12-inch diameter water main and access road to be constructed at Test Well Site 6-00 in Dennis, Massachusetts. The purpose of the proposed well is three-fold: 1) to alleviate existing water supply deficiencies, 2) to create redundancy and reliability in the distribution system and 3) to meet peak demands during summer months when the population increases dramatically.

Although the Dennis Water District (DWD) annual demands have remained relatively stable over the last few years, summer demands continue to rise, placing increased stress on their existing sources. To address the problem, the DWD conducted a Source Alternative Investigation and test well program to identify potential water supply sites. The Source Alternative Investigation identified test well site 6-00 and two other sites for test well exploration.

Test Well 6-00 is situated on a 13-acre parcel on Chestnut Street owned by the Dennis Water District approximately 2,000 feet north of the Mid-Cape Highway (Route 6), 1,200 feet east of East-West Dennis Road (Route 134) and 500 feet north of Hemlock Lane. The locus map and site plan are included in Appendix A. The site was purchased by the DWD and set aside for the purpose of groundwater protection and supply.

A prolonged pumping test was conducted on December 12 through 17, 2001 and a report entitled, "Zone II Delineation and New Source Final Report, Test Well Location 6-

00, Dennis, Massachusetts" was submitted to the DEP in April of 2002. It is anticipated that the finished gravel-packed well will be approximately 90 feet in depth and yield 700 gallons per minute. The well and pumping equipment will be housed in a brick and block structure, which will occupy roughly 1,500 square feet. An access road will extend in a westerly direction from the station to Route 134. The proposed access road will be 12 feet wide and approximately 1,200 feet long. It will be constructed of dense-graded, crushed stone, which is a permeable surface. A water main will extend from the proposed pumping station along the access road and tie in to the existing distribution system along Route 134.