

ENF Environmental Notification Form

For Office Use Only
 Executive Office of Environmental Affairs

EOEA No.: 13108
 MEPA Analyst: Deirdre Buckley
 Phone: 617-626-1044

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: <i>Well Supply Facility 5, Barnstable Fire District Water Department</i>		
Street: <i>Breeds Hill Road</i>		
Municipality: <i>Barnstable</i>	Watershed: <i>Cape Cod</i>	
Universal Transverse Mercator Coordinates: <i>19392702E 4614551N</i>	Latitude:	Longitude:
Estimated commencement date: <i>Fall, 2003</i>	Estimated completion date: <i>Spring, 2007</i>	
Approximate cost: <i>\$900,000</i>	Status of project design:	<u>1</u> %complete
Proponent: <i>Barnstable Fire District Water Department</i>		
Street: <i>1841 Phinney's Lane, P.O. Box 546</i>		
Municipality: <i>Barnstable</i>	State: <i>MA</i>	Zip Code: <i>02630-0546</i>
Name of Contact Person From Whom Copies of this ENF May Be Obtained: <i>Thomas C. Sexton, P.E.</i>		
Firm/Agency: <i>Mainstream Engineering, Inc.</i>	Street: <i>P.O. Box 400</i>	
Municipality: <i>Kingston</i>	State: <i>MA</i>	Zip Code: <i>02364-0400</i>
Phone: <i>781-585-5216</i>	Fax: <i>781-585-9415</i>	E-mail: <i>mainstream1@adelphia.net</i>

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. 12267) 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): N/A

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

List Local or Federal Permits and Approvals: Barnstable Construction Permits, No Federal permit anticipated.

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
LAND				<input 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 <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input type="checkbox"/> Other Permits (including Legislative Approvals) – Specify:
Total site acreage	64			
New acres of land altered		0.3		
Acres of impervious area	1.0	0.05	1.05	
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	800	400	1200	
Number of housing units	0	0	0	
Maximum height (in feet)	20	20	20	
TRANSPORTATION				
Vehicle trips per day	2	0	2	
Parking spaces	2	2	4	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal (mgd)	0.63*	0	0.63*	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	0.2	0.3	0.5	

*Registered Withdrawal Volume 0.34 mgd Plus Water Withdrawal Permit #9P2-4-22-020.01 2000-2005 volume of 0.29 mgd for entire District.

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

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 project would consist of the construction of an 800 sq. ft. concrete well pumping station with 800 ft. of improved gravel access road, and 1500 feet of 8-inch watermain and telecommunications/ electric conduits. The pumping station for Well 5 would be located approximately 825 feet southeasterly of the Barnstable Fire District's Well 2. Well 5 would be located at the site of Test Well 64N, approximately 100 feet north of a power line easement. With the loss of the wellfield area of Wells 3 and 4 due to accidental aquifer contamination or deliberate bioterrorist acts, the water system would be incapable of meeting peak demands or fire demands. The purpose of the project would be to provide additional water supply capacity needed to reliably serve residents of the Barnstable Fire District and emergency interconnections with adjoining water systems.

Water from the well would be pumped through an 8-in. watermain connecting to the existing 12-in. watermain discharging from Station 2. Treatment equipment within the existing chemical treatment building at Station 2 would be expanded to serve both Well 2 and Well 5. The former Well 2 access road from Airport Road (700-ft paved length) would be returned to service. An additional 1100 feet of existing power line access road would be upgraded to a processed gravel surface. Three-phase power is readily available and would be extended by overhead wires to the new well pumping station. The access road and watermain would utilize existing developed areas to minimize loss of existing vegetation. Footprint of the well pumping station would be minimized by remote water treatment using the existing chemical treatment building. Final stormwater recharge and quality would remain unchanged whereas substantial undisturbed area would be conserved for stormwater treatment and aquifer protection. Whereas the facilities would not be occupied and vehicle trips would be limited to one or two per day, insignificant quantities of vehicle pollutants would be generated. Six to eight vehicle trips per day are anticipated during a one-year period of active construction of the water supply infrastructure. Aquifer withdrawal effects would be evaluated in conjunction with the Massachusetts Department of Environmental Protection's New Source Approval process. This would include a prolonged pumping test simultaneous with aquifer and pond level measurements. A small pond, "Fresh Hole", is approximately 360 feet northwest of Well Site 64N. Flintrock Pond is approximately 480 feet northeast of Well Site 64N. The project area is identified as potential habitat for species of special concern. An area of archeological significance exists more than 500 feet northeast of the project site. Investigation into the archeological and habitat significance of the project area would be made during preliminary design phase of the well supply facility.