

For Office Use Only
 Executive Office of Environmental Affairs

EOEA No.: 13488
 MEPA Analyst: Bill Gage
 Phone: 617-626-1025

ENF Environmental Notification Form

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: New Withdrawal and Extended Pump Test		
Street: Adjacent to Meadow Pond off Ivy Lane		
Municipality: Northbridge	Watershed: Blackstone River Basin	
Universal Transverse Mercator Coordinates:	Latitude: N42° 6.534'	Longitude: W71° 41.157'
Estimated commencement date: 12/15/04	Estimated completion date: 01/15/04	
Approximate cost: \$125,000	Status of project design:	75 %complete
Proponent: Whitinsville Water Company		
Street: 44 Lake Street P.O. Box 188		
Municipality: Whitinsville	State: MA	Zip Code: 01588
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Karen Pighetti		
Firm/Agency: Tata & Howard, Inc.	Street: 125 Turnpike Road	
Municipality: Westborough	State: MA	Zip Code: 01581
Phone: (508) 366-5760	Fax: (508) 366-5785	E-mail: kpighetti@tataandhoward.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): _____

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

List Local or Federal Permits and Approvals: BRPWS17 – Approval to site source 70 gpm or greater & BRPWS18 – Approval to conduct pumping test for source 70 gpm or greater

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 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 <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input checked="" type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i> BRPWS17 & BRPWS18 _____ _____ _____ _____ _____ _____ _____ _____
Total site acreage	6.79			
New acres of land altered		0.006		
Acres of impervious area	0.013	0	0.013	
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	555	0	555	
Number of housing units	0	0	0	
Maximum height (in feet)	10	0	10	
TRANSPORTATION				
Vehicle trips per day	1	0	1	
Parking spaces	0	0	0	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	360,000	360,000	720,000	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	0.13	0.002	0.132	

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.)

Project Site Description

The Whitinsville Water Company (WWC) currently utilizes two supply sources to meet demands under normal conditions, while the third source, the Gravel Packed (GP) Well, is currently used as a supplemental supply during high demand periods. It should be noted that the GP Well was not used regularly for a number of years. The existing 12" x 18" GP Well was constructed in 1949 to a depth of approximately 38 feet. This GP Well has a permitted withdrawal volume of 500 gallons per minute (gpm) however, the total capacity of the source has decreased to approximately 250 gpm due to water quality problems and limitations from well reconstruction. In 2002, the screen was damaged and replaced with an 8-inch diameter screen and casing set within the existing 12-inch diameter well. Although this improvement allows the WWC to continue use of the well, it also restricts the available volume of water. In an effort to regain the available capacity of the site, the WWC proposes to install a replacement well and conduct an extended pump test. Since the GP Well was dormant for over five years, the Department of Environmental Protection (DEP) considers the development of this site as a new source. Therefore, completion of a five-day pump test and preparation of an ENF is required. A copy of the extended pump test report has been submitted to DEP for review. Once the new source has been approved, a pitless adapter and 4-inch diameter water main will be installed from the 12" x 18" replacement well to the existing pump house. Electrical conduits will also be installed as part of this project for power and signaling for the level transmitter in the well. Refer to Figure No. 2 - Proposed Conditions and Figure No. 3 - Locus Plan for site and replacement well locations.

The proposed work will be located within the 100 foot discretionary zone which is governed by the Wetlands Protection Act (310 CMR 10.00). All work will be conducted within the 100-foot buffer zone of the bordering vegetated wetlands and the inland bank of Meadow Pond. No permanent alteration of the buffer zone is proposed. Disturbance to the buffer zone will be short term and negligible.

Alternatives

Three alternatives were considered for this project:

1. No Action - One alternative would be to not construct a new well or conduct a pump test. If no action is taken, the existing well cannot continue to be utilized in meeting district demands and the WWC will lose its permit for the site. Therefore the no action alternative is not a feasible option.
2. Develop a new source - The new source approval process would take several years to complete. Prior to construction, a new location must be determined, as well as the WWC must acquire the land for the new source. In addition, watershed protection laws shall be implemented prior to placing the new source online. Therefore, pursuit of additional supply sources is not a feasible option.

3. Construct an Interconnection with a surrounding District – By constructing an interconnection the WWC would be relying on a neighboring Town to meet the demands of their system in addition to the demands of the borrowing Town. Currently, none of the surrounding Towns have a surplus to distribute. Therefore, this alternative is neither a cost effective or feasible approach.

Mitigation Measures

The proposed mitigating measures within the buffer zone area of an inland bank and bordering vegetated wetlands will consist of haybales and siltation fence and a sedimentation basin. The haybales and siltation fence will be installed along the perimeter of the wetlands and Meadow Pond during the installation of the replacement well and water main and will be maintained for the duration of the project.

Prior to the startup of the extended pump test, a piezometer will be placed at the edge of Meadow Pond and monitored for the duration of the test. Since the total withdrawal from the site will not exceed the DEP approved pumping rate, impacts to Meadow Pond are not anticipated. In addition, a sedimentation basin will be used during the pump test and placed at the end of the manifold discharge pipe to reduce impacts associated with discharge flow.