

# ENF Environmental Notification Form

*For Office Use Only*  
 Executive Office of Environmental Affairs

EOEA No.: 12770  
 MEPA Analyst: ARTHUR Pugsley  
 Phone: 617-626-1029

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: Shaker Road Water Treatment Facility		
Street: Shaker Road		
Municipality: Westfield	Watershed: Westfield River	
Universal Tranverse Mercator Coordinates: 18 06 88 572 E; 46 62 847 N	Latitude: 042° 05' 49" N	Longitude: 072° 43' 11" W
Estimated commencement date: 1/03	Estimated completion date: 1/04	
Approximate cost: \$4.45 million	Status of project design:	25%complete
Proponent: Westfield Water Department		
Street: 59 Court Street		
Municipality: Westfield	State: MA	Zip Code: 01085
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Christopher C. Bone		
Firm/Agency: Tighe & Bond	Street: 53 Southampton Road	
Municipality: Westfield	State: MA	Zip Code: 01085
Phone: (413) 572-3266	Fax: (413) 562-5317	E-mail: CCBone@TigheBond.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): The project will be funded through the State Revolving Fund administered by the DEP.

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

List Local or Federal Permits and Approvals: Planning Board: Site Plan Approval and Special Permit; Conservation Commission: Order of Conditions; Sewer Department: Sewer Connection Permit; DEP: Pilot Test Waiver, Conceptual Zone II Approval, Approval to Construct a Facility to Treat 1 MGD or Greater(BRP WS 24).

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 type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input checked="" type="checkbox"/> Other Permits (including Legislative Approvals) – Specify: <input checked="" type="checkbox"/> Pilot Test Waiver <input checked="" type="checkbox"/> Safe Yield Approval <input checked="" type="checkbox"/> Approval to Construct (BRP WS 24)
Total site acreage	32 acres			
New acres of land altered		1.9 acres		
Acres of impervious area	0.02 acres	0.75 acres	0.75 acres	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration		0.80 ac. BLSF 0.27 acres RA		
Acres of new non-water dependent use of tidelands or waterways		0		
<b>STRUCTURES</b>				
Gross square footage	800 sf	7,950 sf	8,750 sf	
Number of housing units	0	0	0	
Maximum height (in feet)	10 ft	20 ft	30 ft	
<b>TRANSPORTATION</b>				
Vehicle trips per day	2	8	10	
Parking spaces	0	6	6	
<b>WATER/WASTEWATER</b>				
Gallons/day (GPD) of water use	0	50 gpd	50 gpd	
GPD water withdrawal	3.2 million gpd	0	3.2 million gpd	
GPD wastewater generation/ treatment	0	50 gpd (typical) 40,000 gpd (max – once every 18-24 months)	50 gpd (typical) 40,000 gpd (max – once every 18-24 months)	
Length of water/sewer mains (in miles)	0.11 miles (water)	0.18 miles (water)	0.30 miles (water)	

**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 MHC Site #19-HD-102, associated with Native American settlement)  No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify \_\_\_\_\_ )  No Based on the 3/1/02 letter from MHC, the precise boundaries of the archaeological site are not known. We are providing MHC with additional information in this ENF and will work with MHC to address any issues associated with archaeological resources at the project site.

**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 City of Westfield maintains two wells (Wells No. 3 and 4) off Shaker Road in the southeastern area of the City. These wells have been approved to pump 3.2 million gallons per day (mgd) and were active until 1989, when ethylene dibromide, a soil fumigant, was detected in water quality samples from the wells. Since 1989, the Westfield Water Department has relied on an interconnection with the Springfield Aqueduct, which carries water drawn from Springfield's surface water supply, in order to provide potable water to its customers in the southeast portion of the City. The agreement to purchase water from Springfield was intended to be a temporary solution to replace the lost capacity due to the contamination of these two wells. In order to regain the ability to provide for its own water supply needs, the Westfield Water Department is proposing to construct a water treatment facility for Wells No. 3 and 4. The water facility would replace Westfield's reliance on Springfield's surface water supply with groundwater supplied from existing wells in Westfield.

Alternatives to the Proposed Project include the No Build Alternative, which would result in the existing wells remaining unused due to contamination. This alternative would also result in the City of Westfield remaining dependent on Springfield for water. The New-Source Alternative would require the City to find a new adequate source of water that does not need treatment. This alternative would take several years and have significant costs associated with investigatory work, permitting, and potentially land acquisition. Alternate locations to siting the building on the project site were considered. The Proposed Project was chosen based on reducing its visibility from Shaker Road, reducing impact on adjoining residences, and minimizing land and resource area disturbance.

The Proposed Project involves the construction of a new facility to treat groundwater from the existing municipal wells (No. 3 and 4) to meet drinking water standards. The treatment facility is proposed on City owned property located between Great Brook and Shaker Road adjacent to Wells No. 3 and 4. Existing gravel roads are currently used for City access to the wells. In addition, several trails used by all-terrain-vehicles cross the proposed facility site. The facility design provides for future expansion of the treatment facility should withdrawal from this aquifer be increased. The treatment facility will use Granular Activated Carbon (GAC) technology to remove ethylene dibromide from the groundwater. The Massachusetts Department of Environmental Protection (DEP) considers GAC a Best Available Technology for the treatment of ethylene dibromide. DEP has issued a Conceptual Zone II Approval for the Proposed Project based on the approved

withdrawal of 3.2 mgd for the two wells.

In recognition of the proven performance of GAC filtration for ethylene dibromide removal, the DEP has waived the requirement for pilot testing and approved the Water Department's request for use of GAC filtration at the proposed treatment facility. A similar GAC treatment facility has been in operation since 1992 within the aquifer, successfully treating drinking water for the Town of West Springfield. The treatment facility is anticipated to have a design capacity of 3.2 million mgd with accommodation for future expansion to 5 mgd. The Water Department is considering expanding its water supply; however, the feasibility investigation for additional capacity is still in the early stages. Should the City determine that an additional withdrawal from this aquifer is feasible in accordance with the DEP Water Management Act and Regulations, a new ENF will be submitted prior to the Source Final Report to identify the environmental impacts associated with the withdrawal.

The site and facility design takes into consideration site security and access, required improvements to existing pipelines, visual impact on the adjoining residential neighborhood, and minimization of impact on natural resources. The proposed treatment facility will consist of a pre-engineered metal building with façade enhancements compatible with neighboring residential architecture. The facility will be serviced by sewer, gas, and electric utilities from Shaker Road. A paved driveway will provide access from Shaker Road to the facility and will extend around the entire facility, provide adequate truck and fire access. The treatment facility will be surrounded by chain link fencing and the roadway will be gated for security purposes.

The Proposed Project will tie into the municipal sewer system. Daily impacts will be minimal, as one person is anticipated to visit the site once or twice each day. Every 18 to 24 months, when the carbon systems are recharged, up to 40,000 gallons of backwash water will be released to the municipal sewer system for a period of 4 to 5 days at a maximum rate of 60 gallons per minute (gpm). The backwash water will be stored in an on-site storage tank and released to the sewer system at off-peak times. The backwash water is anticipated to contain no organic loading and only a small volume of powdered activated carbon. Alan Pierce, the Westfield Wastewater Treatment Facility Superintendent, has confirmed that the municipal wastewater collection and treatment system has the capacity to handle the proposed discharge.

In addition to the new treatment facility, the reactivation of Wells No. 3 and 4 will include the upgrade and rehabilitation of the existing wells and pumping stations. This upgrade will include tying the existing floor drains into the municipal sewer system, in accordance with DEP requirements. The existing pump stations will be upgraded, including new roofs, mechanical equipment, pumps and electrical equipment within the existing buildings. Associated utility upgrades are also proposed, including the installation of a new water main within the existing gravel access road from the new facility to the existing main alongside the Springfield Aqueduct.

The Project Proponent has met with neighborhood and community representatives to discuss the project and identify local concerns. The proposed facility has been designed with architectural enhancements to match the aesthetics of the surrounding residential neighborhood. In addition, evergreen trees are proposed along the entrance drive and near residential property lines to screen the facility from the adjacent residences. Visibility from Shaker Road will be maintained for security purposes. A parking area for three vehicles is proposed off of the entrance drive to provide for parking and public access to the City-owned open space at the Project Site.

Some work is proposed with the 100-year flood plain. Compensatory storage will be provided in compliance with the Massachusetts Wetlands Protection Act. Temporary impacts in previously disturbed Riverfront Area are proposed due to the installation of water lines. No work is proposed within any other wetland resource areas. In addition, stormwater management Best Management Practices will be incorporated into the design to meet the requirements of the Massachusetts DEP Stormwater Management Policy.

According to the Massachusetts Historical Commission (MHC), a recorded archaeological site exists in the area of the Project Site. As per MHC's letter, additional details of the project area along with site photographs are provided as part of this ENF. The Project Proponent will work with MHC to address archaeological issues associated with the Proposed Project.