

Commonwealth of Massachusetts
Executive Office of Environmental Affairs ■ MEPA Office

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs
 EOEA No.: 14403
 MEPA Analyst: Holly Johnson
 Phone: 617-626-1023

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: Rag Rock Mountain Water Storage Tank Replacement Project		
Street: Hillside Ave		
Municipality: City of Woburn	Watershed: Charles	
Universal Transverse Mercator Coordinates: 4705667N, 322263E Zone 19T	Latitude: 42° 28' 58.78" Longitude: 71° 9' 45.01"	
Estimated commencement date: June 2009	Estimated completion date: Jan. 2011	
Approximate cost: \$5,800,000	Status of project design: 95	%complete
Proponent: City of Woburn		
Street: 10 Common Street		
Municipality: City of Woburn	State: MA	Zip Code: 01801
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Shawn Syde		
Firm/Agency: CDM	Street: 56 Exchange Terrace	
Municipality: Providence	State: RI	Zip Code: 02903
Phone: (401) 457-0324	Fax: (401) 751-5499	E-mail: sydest@cdm.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. 8811) 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): SRF funding DWSRF 3212 and American Recovery and Reinvestment Act of 2009 funding for \$24,500,000.

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

List Local or Federal Permits and Approvals: NPDES General Permit for construction activities.

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|--|---------------------------------------|--|
| <input checked="" type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input 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 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 <i>(including Legislative Approvals) – Specify:</i> Mass DEP Drinking Water Program BRP WS 32 and Article 97 approval.
Total site acreage	0.57			
New acres of land altered		2.195		
Acres of impervious area	0.318	0.61	0.61	
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	13,839*	11,479	11,479	
Number of housing units	0	0	0	
Maximum height (in feet)	46	47	47	
TRANSPORTATION				
Vehicle trips per day	1	1	1	
Parking spaces	0	1	1	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0			
GPD water withdrawal	0	0	0	
GPD wastewater generation/ treatment	0	0	0	
Length of water/sewer mains (in miles)	0.043/0	0.11/0.22	0.153/0.22	

* Existing tank to be removed. After completion the net gross square footage of structures will be 11,473 sq. ft.

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: 2.195 acres of conservation land to be used, but replaced with 15.007 acres of city owned land – See attached mapping in Appendix E.) 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 (Large-bracted Tick-trefoil) 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) a description of the project site:

The work will commence in Woburn, Massachusetts, at the Rag Rock Mountain water storage tank. The proposed project consists of constructing a replacement 3.9 million gallon concrete water storage tank on an upland parcel of land located adjacent to the current water storage tank. This parcel is approximately 5.6 acres of City designated conservation land and will therefore require Article 97 approval. The existing tank, built in 1959, is no longer structurally sound and will be removed after the replacement tank is constructed.

An ENF for a previous project on the site of the proposed 3.9 million gallon tank was submitted to the EOEa in September 10, 1991 – EOEa File No. 8811. The project was cancelled due to concerns from local residences and never constructed. The new project has public acceptance and is currently at 95 percent design and is scheduled to move forward to provide the City of Woburn with reliable, clean, and safe drinking water for the next 75 years. The project is funded under the American Recovery and Reinvestment Act of 2009 and State Clean Water Financing.

(b) a description of both on-site and off-site alternatives and the impacts associated with each alternative:

Alternative 1 (No Action Alternative): The No Action Alternative does not address the problems with the existing water storage tank therefore the No Action Alternative was eliminated from further consideration.

Alternative 2-Rehabilitation of the Existing Water Storage Tank: An alternative to building a new tank is to rehabilitate the current water tank, but it is less cost effective and is less beneficial than simply building a new tank. If the City were to rehabilitate the tank, including required seismic upgrades and higher distribution system pressures, the cost would be approximately \$4.4 million. This alternative allows them to receive all of the benefits they were looking for in this project, however the life span of the tank, due to age and material, may only be another 25 years versus 75 years for the new tank.

Alternative 3-Construction of New Concrete Tank (Preferred Alternative):

The preferred alternative consists of constructing a replacement 3.9 million gallon concrete water storage tank on the upland parcel of land located adjacent to the current water storage tank. By building a new replacement tank, the City achieves all of the benefits they were hoping for, at a lower price (\$3.7 million). The lifespan of the new concrete tank is approximately 75 years.

Along with the new tank, associated drain lines and water lines will be installed. This includes installation of approximately 600 linear feet of 6-inch through 24-inch diameter water main, and approximately 1,180 linear feet of 6-inch through 15-inch diameter sewer and drain lines. An 870-foot long bituminous concrete access road will be constructed from the end of Hillside Avenue to the new tank structure. A small prefabricated 14 feet 7 inch by 11 feet 7 inch water quality building will also be constructed on site.

To avoid erosion and sedimentation and flooding of downstream properties due to the increase in impervious area, the City has designed a storm water management system which consists of a retention pond and an overflow structure connecting to the existing downstream drainage system (see Sheet C-6 in Appendix D). The storm water management system will allow the storage of peak rates of runoff during rainfall events; resulting in no increase in the rate and volume of runoff. Catch basins equipped with hoods and deep sumps will be provided to remove suspended solids.

The retention pond will also serve to control flow of water from the site during a tank overflow event. Currently, tank overflow is allowed to run overland onto private property and within the public right-of-way of Hillside Avenue causing property damage and disruption to local traffic. Under the proposed alternative, all tank overflows would be directed to the retention pond and city's drainage system mitigating the damage to private property and disruption to local traffic.

Once the new 3.9 million gallon water storage tank is constructed, demolition of the old water tank will begin. Contaminated soils have been discovered in the 0.57 acre parcel holding the existing tank. Additional soil samples will be collected prior to construction to determine the extent of the contamination zone. This contamination has been reported to Massachusetts Department of Environmental Protection by the 120 day requirement deadline of June 4th, 2008. The site has been given Release Tracking Number of 3-27746 for reporting purposes. All work will be done in accordance with MassDEP standards and the Massachusetts Contingency Plan (310 CMR 40.00). The soil cleanup will be completed as a separate project to meet the June 4th 2009 deadline mandated by the MassDEP.

Approximately 2.7 acres of City owned conservation land (Parcel ID Map/Lot No. 50-02-06) will be converted from conservation use to industrial use, and therefore require Article 97 approval. To compensate for the loss of 2.195 acres of conservation land, the City will designate 15.007 acres of City owned land from adjacent parcels, and a parcel located off site, to conservation land (See Appendix E – Land Use Parcel Mapping).

(c) potential on-site and off-site mitigation measures for each alternative:

A Stormwater Pollution Prevention Plan (SWPPP) will be developed as part of the NPDES General Permit for construction activities which will include the installation of fiber rolls around the perimeter of the site during construction, as shown on Sheet C-4 in Appendix D. The Contractor will develop the SWPPP and NPDES permit and submit all required paperwork to MassDEP and EPA prior to the start of construction. Stormwater runoff will be diverted to the proposed retention pond during construction. Once construction is completed, disturbed areas will be seeded with an erosion control seed mixture and slopes steeper than 4(H) to 1(V) (except slopes with exposed ledge or slopes to be covered in riprap), will be covered with biodegradable erosion control blanket. Wood fiber mulch and tackifier will be applied to all seeded areas. Evergreens will be planted around the site to provide screening.