

# The Commonwealth of Massachusetts

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December 8, 2006

## CERTIFICATE OF THE SECRETARY OF ENVIRONMENTAL AFFAIRS ON THE THE NOTICE OF PROJECT CHANGE

PROJECT NAME : Canton Comprehensive Water Resources  
Management/363 Chapman Street  
PROJECT MUNICIPALITY : Canton  
PROJECT WATERSHED : Boston Harbor  
EOEA NUMBER : 12172  
PROJECT PROPONENT : Paul Feldman & Associates  
DATE NOTICED IN MONITOR : November 8, 2006

Pursuant to the Massachusetts Environmental Policy Act (G. L., c. 30, ss. 61-62H) and Section 11.06 of the MEPA regulations (301 CMR 11.00), I determine that this project **does not require** the preparation of an Environmental Impact Report (EIR). The proponent has requested a Phase I Waiver to allow the first phase of the project to proceed, pending the preparation of a Comprehensive Wastewater Management Plan (CWMP)/Environmental Impact Report (EIR) for the project. The Phase I Waiver Request was presented within the Notice of Project Change submittal (NPC). In a Draft Record of Decision (DROD), also issued today, I have proposed to **grant** a Phase I Waiver with conditions allowing the proposed 3-lot residential subdivision at 363 Chapman Street to proceed while the CWMP/DEIR is being prepared.

### Project History

The Town of Canton is preparing a Comprehensive Water Resources Management Plan (CWRMP) to determine the most effective disposal methods for existing and future wastewater disposal flows within the town. Approximately 60% of Canton is connected to the existing sewage collection system, which discharges to the Massachusetts Water Resources Authority (MWRA) system. The remainder of the Town uses individually owned on-site Title 5 septic systems. The Town plans to extend sewer service to unsewered areas and to increase potable water supplies through construction of a new well, Well #9, to meet anticipated future demand.

In May 2004, the Town of Canton submitted a Phase I report as required by a Special Review Procedure for MEPA review created in accordance with 301 CMR 11.09. The Phase I document defined the wastewater disposal needs of the community and included a proposed scope for the Phase II report. The Phase I report included a needs analysis that identified high needs areas and neighborhoods where on-site wastewater disposal may not be a realistic long-term option. The Phase I report also indicated that Infiltration/Inflow (I/I) is a significant wastewater problem. In addition, as a condition for approval of an increase in the interbasin transfer rate, the WRC required that the Town of Canton offset withdrawals from Well #9 that are discharged out of the Neponset River Basin on a 2:1 basis. The Secretary's Certificate (June 14, 2004) on the Phase I Report, required the proponent to submit a Phase I Waiver Request to the MEPA Office for any future proposals for sewerage in the Town prior to the completion of an approved CWRMP/Final EIR under the Waiver provisions at 301 CMR 11.11.

#### Phase I Waiver Request - 363 Chapman Street

According to the information contained in the Notice of Project Change (NPC), the proponent is requesting a Phase I Waiver to construct approximately 40 linear feet (lf) of 8" gravity sewer from the project site to the Town of Canton's existing 8" sewer main located within the Chapman Street right-of-way to serve a proposed 3-lot residential subdivision on a previously developed 2.9-acre site located off Chapman Street in Canton. The wastewater flow from each of the three new houses will be conveyed to the new gravity sewer via individual grinder pump lift stations and force mains. The project also involves the demolition of an existing single family house (#363 Chapman Street), and the construction of approximately 400 lf of roadway, utilities and stormwater management infrastructure. According to the information provided in the NPC, the project site is located within the sewer service limits of the Town's existing sewer system. As a result, the project will be served by the Town of Canton's municipal water supply system and municipal sewer collection by the Town of Canton for treatment by the Massachusetts Water Resources Authority's (MWRA) Deer Island Wastewater Treatment Facility (WWTF). The project must comply with the National Pollutant Discharge Elimination System (NPDES) General Permit for stormwater discharges from a construction site of over one acre.

In their comments, MassDEP has indicated that the proponent's financial commitment (approximately \$3,500) to the Town of Canton to support the reduction of approximately 3,500 (4:1) gallons per day (gpd) of infiltration/inflow (I/I) removal will likely provide adequate mitigation for the proposed 363 Chapman Street project. I note that according to MassDEP, adequate capacity to accommodate future sewerage in the project area will also depend on the Town of Canton's completion of the Phase III Rehabilitation Project and the Green Lodge Interceptor Sewer Replacement Project.

The proponent will need to satisfactorily demonstrate to MassDEP the Town of Canton's support for the proposed sewer extension project. Specifically, the proponent will need to provide MassDEP with documentation from the Town of Canton to demonstrate the following:

1. the Town of Canton's sewer system has sufficient design capacity to accommodate the project's additional wastewater flows;
2. the proponent has secured permission from the Town of Canton to direct the project's wastewater flows to Canton's sewer collection and conveyance system and the MWRA Deer Island WWTF, and
3. the Town of Canton's commitment to complete the Phase III Rehabilitation Project and the Green Lodge Interceptor Sewer Replacement Project.

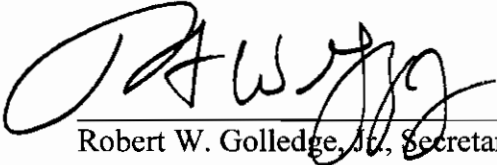
#### Water Conservation

The proponent will need to demonstrate to MassDEP that the final project design meets the Commonwealth's water conservation standards. I strongly encourage the proponent to incorporate water conservation and water use efficiency in the project design to comply with the March 1989 state plumbing code.

Specifically, the proponent should commit to employing efficient residential water conservation technologies for the project including water saving devices, low flow toilets, and low flow appliances (dishwashers, washing machines). The proponent should also consider implementing an Irrigation Management Plan (IMP) to further reduce the project's irrigation water demand. An IMP could involve the use of amended soils and compost, the planting of native and drought-tolerant species of trees, shrubs, and turf grasses, an automated water efficient irrigation system, and a water management protocol for drought conditions. I ask that the proponent consult with DEP, and refer to the Massachusetts Water Resources Commission's *Lawn and Landscape Water Conservation, An Addendum to the Water Conservation Standards for the Commonwealth of Massachusetts, October 2002*, during the final design of the proponent's IMP.

I have reviewed the Phase I Waiver request and supporting information and I find that the amount of total wastewater flow generated from the proposed 3-lot subdivision project (880 gallons per day (gpd)), will not result in a significant increase in wastewater flow to the Massachusetts Water Resources Authority's (MWRA) Deer Island Wastewater Treatment Facility (WWTF). Based on these facts, I hereby propose to grant the request for a Phase I Waiver for the 363 Chapman Street residential subdivision project in Canton.

December 8, 2006  
DATE

  
Robert W. Golledge, Jr., Secretary

Comments received:

11/28/06      Massachusetts Department of Environmental Protection – SERO

NPC/Phase I Waiver #12172 – Canton Comprehensive Water Resources Management/  
363 Chapman Street, Canton

RWG/NCZ/ncz