

Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
Massachusetts Environmental Policy Act (MEPA) Office

Environmental Notification Form

For Office Use Only

EEA#: _____

MEPA Analyst: _____

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Old Pine Drive Well Development		
Street Address: 0 State Street – Off Old Pine Drive		
Municipality: Hanson	Watershed: South Coastal Basin	
Universal Transverse Mercator Coordinates: 19T 347044mE 4661022mN	Latitude: 42° 5'10.99"N	Longitude: 70°50'57.71"W
Estimated commencement date: Sp. 2021	Estimated completion date: Fall 2025	
Project Type: Drinking Water/Utilities	Status of project design: <5% %complete	
Proponent: Town of Hanson, Water Department		
Street Address: 1073 West Washington Street		
Municipality: Hanson	State: MA	Zip Code: 02341
Name of Contact Person: Danielle Gallant		
Firm/Agency: CDM Smith Inc.	Street Address: 260 West Exchange St, Suite 300	
Municipality: Providence	State: RI	Zip Code: 02903
Phone: 401-457-0321	Fax: 401-274-2173	E-mail: gallantdj@cdmsmith.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No

If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you 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

(Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)

Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)? 301 CMR 11.03(1)(b)(3) – Conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97. 301 CMR 11.03(4)(b)(1) – New withdrawal or Expansion in withdrawal of 100,000 or more gpd from a water source that requires New construction for the withdrawal

Which State Agency Permits will the project require? Massachusetts Department of Environmental Protection (MassDEP) Water Withdrawal Permit (BRP-WM-03), MassDEP Source Approval (BRP-

WS-19), MassDEP Approval of Pilot Treatment Study (BRP-WS-22C), Massachusetts Environmental Policy Act Office (MEPA) Environmental Notification Form, Article 97 Conversion.

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: Town owned conservation land will be transferred to waterworks facility use (approximately 8.5 acres). The Town may elect to apply to MassDEP for funding assistance during construction. The preliminary construction cost estimate is \$10 million dollars.

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	8.5		
New acres of land altered		1.2	
Acres of impervious area	0	1.2	1.2
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	0	3,750	3,750
Number of housing units	N/A	N/A	N/A
Maximum height (feet)	N/A	16	16
TRANSPORTATION			
Vehicle trips per day	0	1	1
Parking spaces	0	3	3
WASTEWATER			
Water Use (Gallons per day)	N/A	N/A	N/A
Water withdrawal (GPD)	0	0.432 mgd	0.432 mgd
Wastewater generation/treatment (GPD)	N/A	N/A	N/A
Length of water mains (miles)	0	1,250	1,250
Length of sewer mains (miles)	N/A	N/A	N/A
<p>Has this project been filed with MEPA before? <input type="checkbox"/> Yes (EEA # _____) <input checked="" type="checkbox"/> No</p>			
<p>Has any project on this site been filed with MEPA before? <input type="checkbox"/> Yes (EEA # _____) <input checked="" type="checkbox"/> No</p>			

GENERAL PROJECT INFORMATION – all proponents must fill out this section

PROJECT DESCRIPTION:

The Town of Hanson proposes to construct a new water supply source for its residents and businesses. The Town's existing four wells have a Massachusetts Department of Environmental Protection (MassDEP)-approved yield of 1.364 million gallons per day (MGD), but normally cannot produce that much, especially in drier seasons. During times when additional water supply is needed, the Town purchases water from the City of Brockton's water system; Brockton's finished water transmission mains extend east/west across Hanson in Route 27. Use of Brockton water is problematic for Hanson's customers due to the very different taste and odor from the well water; the chlorine residual approaches the MassDEP Maximum Residual Disinfectant Level of 4 mg/L because Hanson is the first customer on the Brockton system. Construction of a new in-town water supply source will allow Hanson to be independent of Brockton for its water demands, will provide consistent water quality to the Hanson customers, and will allow Hanson to better balance its withdrawals with respect to the two basins in which Hanson lies (Taunton River Basin and South Coastal Basin). The project includes a new groundwater supply, and a filtration plant to remove excessive levels of iron and manganese.

Previous project work at this location included in-depth studies to determine potential locations of the new source well. This included geophysical studies completed in 1993-94 which determined potential bedrock well sites in Hanson (including the Old Pine Drive site). Additional geophysical studies were completed in 2016-17 to confirm the presence of a bedrock aquifer at the Old Pine Drive site (See Figure 1). Over the last three years, the Town has constructed two bedrock test production wells on this parcel (TW-1 and TW-2), performed short-duration pumping tests on the better of the two sites (TW-2), developed conceptual facility plans for waterworks facilities at two locations on the town-owned parcel, and conducted an extended-duration pumping test on TW-2 in compliance with MassDEP Source Approval requirements. The Town is applying for approval of a new public water supply source to withdraw up to 0.432 MGD of groundwater from this site. Hanson does not have a sewer system, thus most of the withdrawn water will be returned to the environment through septic systems.

The Town already has a Water Withdrawal Permit for its existing wells in the Taunton River Basin. The sum of the registered and permitted average annual withdrawals is 0.78 MGD. Hanson is not applying for an increase in its total authorized withdrawal.

State Permits and Approvals

Massachusetts Department of Environmental Protection

Environmental documentation efforts include drafting a Source Final Report and completing a Water Withdrawal Permit application.

Massachusetts Environmental Policy Act

The entire 400-foot Zone I radius around TW-2 is owned by the Town of Hanson Conservation Commission. This Environmental Notification Form is required as a part of the Source Final Report Approval and is triggered by the new source water withdrawal and the proposed Article 97 Conversion of land from conservation designation to water resource protection land designation.

Massachusetts Historical Commission (MHC)

A Project Notification Form (PNF) has been submitted to Massachusetts Historical Commission as a part of this project.

Local Permits and Approvals

Town of Hanson Conservation Commission

CDM Smith has received an Amended Order of Conditions for the TW-2 installation and associated pump test. Future work for the pilot testing facility and the WTP construction will require additional coordination with the Conservation Commission.

Future Construction

Following receipt of MassDEP Source Approval and MassDEP Pilot Treatment Testing Approval, facility design would begin. The facilities were described in the 2019 Conceptual Facilities Plan, and slightly modified in the 2020 Source Final Report. The basic facilities are: a redundant backup well within ten feet of TW-2, installation