

## WELL PUMPING STATION NO. 7

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**Owner:** Water Division, Department of Public Works  
Easton, MA  
2005

**Contact:** John Marsh, Water Superintendent  
417 Bay Road  
South Easton, MA 02375

**Telephone:** 508-230-0850

**Key Personnel:** David A. Jacobsen, P.E.  
Patrick Brennan, P.E.

### PROJECT DESCRIPTION

Well and Pumping Station No. 7 is the fifth well supply that Amory Engineers has designed for Easton either as a new source (3) or rehabilitation of an existing source (2). Well 7 is a 24-in. by 36-in. gravel-packed well, approximately 70 feet deep, designed to deliver 325 gpm. The pumping station houses the well pump with VFD controls, UV and hypochlorite disinfection equipment. A separate room houses hydrated lime treatment equipment. The lime room is designed to accommodate pallets of bagged lime sufficient for about 6 months of operation.

Our other supply projects for Easton included one new gravel-packed well and pumping station, one new wellfield and pumping station and two complete pumping station replacements for which the existing gravel-packed wells were reused. All included corrosion control using hydrated lime for pH adjustment.



## FURNACE BROOK NO. 1 REPLACEMENT WELL

**Owner:** Water Division, Department of Public Works  
Marshfield, MA  
2007

**Contact:** Roderic Procaccino, Town Engineer  
870 Moraine Street  
Marshfield, MA 02050

**Telephone:** 781-834-5589

**Key Personnel:** David A. Jacobsen, P.E.  
Patrick G. Brennan, P.E.

### PROJECT DESCRIPTION

Our work for the Marshfield Department of Public Works included design and construction services for the complete replacement of an old well supply. The project included a new 1.0 mgd gravel-packed well and pumping station plus demolition of the old station and abandonment of the original well. The pumping station houses the new 24-in. by 36-in. gravel-packed production well, SCADA control facilities, ultraviolet-light disinfection and corrosion control using hydrated lime. Facilities also include volatile organics removal by granular activated-carbon pressure filters, housed in an adjacent structure. The station was placed in service in 2007.



## FERRY STREET NO. 2 NEW SOURCE APPROVAL AND PUMP STATION

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**Owner:** Water Division, Department of Public Works  
Marshfield, MA

**Contact:** Roderic Procaccino, P.E., Town Engineer  
870 Moraine Street  
Marshfield, MA 02050

**Telephone:** 781-834-5589

**Key Personnel:** David A. Jacobsen, P.E.  
Ryan J. Trahan, P.E.

### PROJECT DESCRIPTION

Our work for the Marshfield Department of Public Works included development of a new wellfield supply (0.7 mgd) from investigating test well work through Massachusetts Department of Environmental Protection's (MADEP) New Source Approval (NSA) process. The NSA included a prolonged pump test and preparation of the Source Final Report. The supply includes a naturally-developed wellfield consisting of eight 8-in. wells, a pump station including pumping and treatment work utilizing ultraviolet light (UV) for disinfection and hydrated lime for corrosion control/pH adjustment.



## WELL NO. 3 REPLACEMENT WELLFIELD

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**Owner:** Water Department  
Avon, MA

**Contact:** John Tetreault, Superintendent  
65 East Main Street  
Avon, MA, 02322

**Telephone:** 508-588-0414

**Key Personnel:** David A. Jacobsen, P.E.  
Ryan J. Trahan, P.E.

### PROJECT DESCRIPTION

The design of Wellfield Pumping Station No. 3 included replacement of an existing well and pumping station with a new facility. The facility included three 10-in. by 16-in. gravel-packed wells manifolded together and controlled from the new pumping station. Equipment includes a vertical-turbine pump and vacuum priming system. Construction of the pump station is complete and the station will initiate service following completion of a new water treatment plant for manganese removal now under construction.

