

Marrion, Julianne

From: Cerutti, Joseph (DEP) <Joseph.Cerutti@MassMail.State.MA.US>
Sent: Thursday, September 15, 2016 11:57 AM
To: jkelly@town.orleans.ma.us
Cc: Dombrowski, Paul (Wakefield); Marrion, Julianne; Dudley, Brian (DEP); Rondeau, Richard (DEP); Shurtleff, Charles (DEP); Burns, David (DEP); conradt@nausetschools.org; health@town.orleans.ma.us
Subject: UIC Registration Orleans_70 MA-28_MAS41A224209-5B6

Dear Mr. Kelly,

The Massachusetts Department of Environmental Protection (MassDEP), Drinking Water Program (DWP) received on August 31, 2016, the electronic submittal of a **BRP WS 06** permit application with supporting documentation via email from Julianne Marrion, AECOM, for the registration of Underground Injection Control (UIC) Class V wells. Additional information regarding the proposed UIC discharges was also provided to MassDEP prior to August 31, 2016 in a PDF version of Appendix R – Technical Memo –Preliminary Engineering Work Plan for Permeable Reactive Barriers dated May 19, 2016.

MassDEP/DWP has reviewed the above referenced permit application and supporting documentation and is hereby issuing **UIC Registration ID# MAS41A224209-5B6** in accordance with the UIC program procedures and regulations, 310 CMR 27.00. This approval is for the installation of the temporary UIC wells and for the proposed injection through those wells. In all future correspondence regarding this UIC registration please make reference to the UIC Registration ID.

UIC Class V Well Pre-Closure Application Information:

Facility Name: Eldredge Park PRB Demonstration Test Site
Owner: Nauset Regional Schools
Owner's legal contact: Tom Conrad, Nauset Regional Schools, 78 Eldredge Park Way, Orleans, MA 02653
Operator: Town of Orleans
Operator's legal contact: John Kelly, Town Administrator, 19 School Road, Orleans, MA 02653
Applicant: Town of Orleans
Facility Address: 70 MA-28, Orleans, MA 02653
Applicant: Town of Orleans
Well category: Other
Well type: Aquifer Remediation
EPA Well Code: 5B6
Number of wells included in this registration: 22 (22 temporary direct push UIC wells)
Number of entry points included in this registration: 22 (22 temporary direct push UIC wells)
Allowable Chemical Additives: emulsified vegetable oil and sodium bicarbonate (if needed for pH buffering)
Total volume of emulsified vegetable oil (EVO) product (60% soy bean oil by weight) injected: up to 2,700 gallons
Maximum total injection volume for all UIC wells combined (solution of EVO product and potable water): up to 12,000 gallons
Maximum total rate of injection: 50 gallons per minute
Average rate of injection: 8,650 gallons per day
Designer: Paul M. Dombrowski, P.E., AECOM, 250 Apollo Drive, Chelmsford, MA 01824
MassDEP Certified Well Driller: to be determined
Application prepared by: Paul M. Dombrowski, P.E., AECOM

Prior to the initiation of the aquifer remediation injections you shall notify MassDEP of the name of the MassDEP Certified Well Driller that will install the direct push UIC wells.

This UIC well registration installation and operation authorization is contingent upon satisfying the following requirements:

- You are required to provide the above referenced UIC ID# on all future correspondence with the MassDEP/DWP related to this registered UIC well.
- All correspondence related to the UIC Program shall be sent to: MassDEP/DWP, 1 Winter Street, 5th Floor, Boston MA 02108.
- You are required to maintain a copy of all the documents related to this permit application including but not limited to all the forms, correspondences and their respective noted attachments including site map(s), and detail sheets. These documents shall be available at the site (or in an office nearby) for inspection by any MassDEP or EPA staff for a period of three years following the completion of the three-year-post-UIC-injection monitoring period.
- Copies of the laboratory analytical reports for the proposed baseline (pre-injection) and post-injection ground water sampling events outlined in Table 7-1 of Appendix R shall be submitted to MassDEP UIC program at three months and six months following the date of completion of the UIC injections and every 6 months thereafter for the proposed three year monitoring period unless this schedule is revised by MassDEP at a future date. These reports shall include an indication of the results of visual observations for the presence or absence of EVO in groundwater collected from the monitoring wells.
- Three months following the completion of the proposed UIC injections you shall submit a revised map showing the locations of the UIC well locations and monitoring well locations, a narrative description of the total number of UIC wells installed, the dates during which the UIC injections occurred, the total estimated injection volume and total estimated volume of 60% emulsified vegetable oil (EVO) injected, and a narrative description of how many of the UIC wells remained open at the ground surface following the removal of the injection rods and were backfilled with bentonite chips. This report and the above referenced submittal of copies of laboratory analytical reports shall serve as meeting the MassDEP UIC pre- and post-closure requirements and; therefore, the standard BRP WS 06d form shall not be required by MassDEP due to the temporary nature of these UIC wells.
- Only the type and source of the discharge(s) that are listed on the original permit application and supporting documentation are allowed, and;

There may be other local permits, ordinances, or regulations that apply (e.g. well drilling permit). The issuance of a UIC registration number by MassDEP does not supersede the requirements of any other state or local regulatory entity.

If you have any questions, please contact me at 617-292-5859 or by e-mail at joseph.cerutti@state.ma.us or by fax at 617-292-5696.

This email has been copied to the following:

Tom Conrad, Nauset Regional Schools
Paul M. Dombrowski, P.E., AECOM
Julianne Marrion, AECOM
Brian Dudley, MassDEP Groundwater Discharge Permitting Program, Lakeville office
Richard Rondeau, MassDEP Drinking Water Program Section Chief, Lakeville office
David Burns, MassDEP Lakeville office
Charles Shurtleff, Mass DEP Lakeville office
Orleans Health Department

Joe Cerutti
UIC Program Coordinator
MassDEP
1 Winter Street, 5th Floor
Boston, MA 02108

617 292-5859

fax 617 292-5696 (Note, if faxing, please notify by email or phone)