



Massachusetts Department of Environmental Protection Bureau of Water Resources – Drinking Water Program

Instructions for UIC Class V Well Technical Compliance Form for Public Water Supply Facilities (Attach to your BRP WS 06 UIC Registration application form)

INTRODUCTION

The *UIC Class V Well Technical Compliance Form for Public Water Supply Facilities* should be submitted with all Underground Injection Control (UIC) registration applications for public water supply facilities for which a UIC Class V **well type** technical compliance form does not exist. **Well type** technical compliance documents exist for:

- stormwater,
- open-loop ground source heat pump,
- motor vehicle rinse water, snow/ice melt, or rain drip.

This technical compliance form should be used by the applicant and Massachusetts Department of Environmental Protection (MassDEP) to determine whether a UIC Registration may be approved. Depending upon responses to questions provided on this form, MassDEP may contact you for additional information.

Technical Compliance forms are not required if you are registering UIC wells for the purpose of closing all of them.

For more information, the MassDEP *Standard Design Guidelines for Shallow UIC Class V Injection Wells* and the MassDEP fact sheet titled *Registration of Discharges to the Ground from Pump Houses and Other Public Water System Facilities Including Discharges from In-line Analyzers* are available in the “Guidance” section of the following MassDEP UIC program’s web page: <http://www.mass.gov/eea/agencies/massdep/water/drinking/underground-injection-control.html> All questions regarding the UIC program should be addressed to askUIC@state.ma.us or to Joe Cerutti by phone at 617 292-5859 or by mail at the address shown at the end of this document. You may also contact the MassDEP Drinking Water Program at Program.Director-DWP@state.ma.us Subject: UIC, or by phone at 617-292-5770.

DIRECTIONS FOR FILLING OUT THE UIC CLASS V WELL TECHNICAL COMPLIANCE FORM FOR PUBLIC WATER SUPPLY FACILITIES:

Enter UIC Registration Number (if applicable):

Provide the UIC Registration Number that was issued to you by MassDEP upon approval of your BRP WS06 Registration application form. If this is your first application for this/these well(s) then a UIC Registration Number has not been issued and you should leave this entry blank.

Section A. Facility Information

Facility/Residential Property Name: Enter the common name of this facility if it is different than the legal name and the facilities (or residences’) street address and the town that the facility is located in. You may enter “private residences” under the “Facility/Residential Property Name” category if applicable.

Section B. Preparer Information

Enter the name, mailing address, email address, and phone number of the person who has completed the UIC Class V Well Completion of Construction Notification Form.

Section C. Technical Compliance Questions

1.) Will the discharge contain any sanitary waste or sanitary wastewater?

If yes, you are not eligible for obtaining a UIC Registration approval and you shall either contact your local health department or board of health to seek approval for a Title 5 wastewater disposal system. See UIC Regulations, 310 CMR 27.02, for the definition of sanitary waste.



**Massachusetts Department of Environmental Protection
Bureau of Water Resources – Drinking Water Program**

**Instructions for UIC Class V Well Technical Compliance
Form for Public Water Supply Facilities (Attach to your
BRP WS 06 UIC Registration application form)**

2.) Will any sampling reagents be included in the discharge and/or are there any acidic chemicals stored on site that could potentially enter the UIC well from an accidental spill?

- a. If yes, does the wastewater pass through a neutralization crock (or other pH neutralization system) prior to discharge to the UIC well?

If no to question 2.a., the applicant shall be required to submit a narrative statement explaining why a neutralization crock should not be required for the proposed discharge including any potential discharges to the UIC well that may result from accidental spills of chemicals stored on-site or from equipment malfunction.

3.) Will the UIC well receive discharges from a pump house located at a water supply well and/or is the UIC well located within the Zone I or Zone A of a public water supply source?

If no, skip to Question Number 6

4.) Is the UIC well located within the Zone I of a public water supply well?

- a. If yes, has the MassDEP Drinking Water Program in the applicable regional office approved of the UIC discharge within the Zone I?

If no to question 4.a., MassDEP will not issue a UIC Registration approval until a determination is made by the MassDEP Drinking Water Program that the proposed discharge is acceptable. Whether or not you indicate yes or no to this question you should be aware that MassDEP may require that the UIC well be located outside of the Zone I in the future if you are either replacing the well or if you are adding additional entry points, chemicals, and/or flow volume to your approved UIC discharge.

5.) Are there chemicals stored in the pump house or in the catchment areas to any entry points (e.g. floor drain) to the UIC well that are unrelated to water supply treatment or distribution?

If yes, you may not be eligible for UIC Registration approval.

6.) Are there any water supply treatment chemicals stored in the catchment areas to any entry points (e.g. floor drain) to the UIC well?

- a. If yes to question 6.a., are those chemicals located in a bermed area which can hold at least 110% of the total volume of stored liquid chemicals and chemical solutions?

7.) Do any floor drains discharge to the UIC well?

- a. If yes, do you have a Standard Operating Procedure (SOP) in place to temporarily isolate and secure all floor drains during work that uses potential contaminants within the catchment area to the floor drain?



**Massachusetts Department of Environmental Protection
Bureau of Water Resources – Drinking Water Program**

**Instructions for UIC Class V Well Technical Compliance
Form for Public Water Supply Facilities (Attach to your
BRP WS 06 UIC Registration application form)**

8.) Are there any pumps or engines that require periodic oil/fluid changes in the vicinity of any floor drains that discharge to the UIC well?

- a. If yes, are those pumps or engines located in bermed areas?
- b. If no to question 8.a., did you answer yes to question 7.a.?

If no to question 8.b., you shall be required to either install a berm around the pump(s) and/or engine(s) or implement an SOP to temporarily isolate and secure all floor drains while performing the periodic oil/fluid changes.

9.) Will the discharge include any brine discharges from the regeneration of cation or anion exchange water treatment filter media?

The discharge of brine solutions to fresh water aquifers is potentially harmful to sources of drinking water and to the environment. MassDEP determines whether or not a proposed discharge of brine solution is eligible for MassDEP UIC Registration approval on a case-by-case basis. In making this determination, MassDEP takes into account the volumetric rates of discharge, the proximity of nearby sources of public and private drinking water, and nearby sensitive receptors in the environment.

- a. If yes, is the treatment media being regenerated removing any contaminants in the pre-treated water that exceed a maximum contaminant level (MCL) concentration per the MassDEP Drinking Water regulations, 310 CMR 22.00 (does not include contaminants with secondary MCL that are listed in 310 CMR 22.07D)?

If yes to question 9.a, you are not eligible for a UIC Registration and your proposed discharge either requires some form of pre-treatment and a MassDEP issued Groundwater Discharge Permit; or, you shall have the spent brine solution containerized and hauled off-site for proper treatment; or, you shall have the spent filter media brought off-site for proper disposal or regeneration.

10.) Are any well additives being used or proposed for use that will be discharged to the UIC well other than water treatment additives present in the finished drinking water?

- a. If yes, have you completed a Proposal for Chemical Use (additive) in a UIC Class V Well form?

For chemical reagents commonly used with analyzers at public water supply facilities you will typically only be required to provide a list of the names of the reagents used and will not be required to submit Material Safety Data Sheets (MSDS) or a list of the decomposition and chemical reaction by-products that are requested on the form. Typically you will not be required to submit a completed chemical use (additive) form for chemicals that are present in the finished drinking water (e.g. finished drinking water discharged from a reagentless analyzer does not require a chemical use form). The chemical use form is also available in the "Guidance" section of the following MassDEP UIC program's web page:

<http://www.mass.gov/eea/agencies/massdep/water/drinking/underground-injection-control.html>

11.) Do all of the UIC well locations meet all applicable minimum setback distances that are listed in the MassDEP Standard Design Guidelines for Shallow UIC Class V Injection Wells?

If no, the applicant shall be required to submit a feasibility argument for why the minimum setback distance(s) can't be met.



**Massachusetts Department of Environmental Protection
Bureau of Water Resources – Drinking Water Program**

**Instructions for UIC Class V Well Technical Compliance
Form for Public Water Supply Facilities (Attach to your
BRP WS 06 UIC Registration application form)**

12.) Is a minimum vertical separation distance of four feet met between the base of each of the Class V UIC wells (measured from base of filter sand or stone placed beneath UIC well (if applicable)) and the seasonal high groundwater (water table) elevation?

If no, the applicant shall be required to submit a feasibility argument for why the minimum vertical separation distance can't be met.

13.) Is a minimum vertical separation distance of five feet met between the base of each of the Class V UIC wells (measured from base of filter sand or stone placed beneath UIC well (if applicable)) and the top of bedrock?

If no, the applicant shall be required to submit a feasibility argument for why the minimum vertical separation distance can't be met.

Section D. Certification Statement

State statutes provide for penalties for submitting false information on this application form. This section must be signed by either the owner or operator of the property/facility. Any person who signs for the operator or owner must have authority to legally bind the business to perform the activities described in the applicable certification statement. The following are the only eligible persons who may sign for the operator or owner:

- In a sole proprietorship, the company's sole proprietor.
- In a partnership, a general partner with authority to bind the partnership.
- In a corporation or a non-profit corporation, a corporate official with authority to bind the corporation, e.g., president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision making functions of the corporation.
- In a municipality or other public agency, a principal executive officer or ranking elected official who is empowered to enter into contracts on behalf of the municipality or public agency.

Upload a copy of the signed original document through eDEP upon submittal of your eDEP UIC registration application or mail the original to:

MassDEP
1 Winter Street – 5th Floor
Boston, MA 02108
Attn: UIC Program



Massachusetts Department of Environmental Protection
 Bureau of Water Resources – Drinking Water Program
UIC Class V Well Technical Compliance Form for
Public Water Supply Facilities
 (attach to your BRP WS 06 UIC Registration application form)

Enter UIC Registration Number (if applicable): _____ UIC Registration Number _____

The *UIC Class V Well Technical Compliance Form for Public Water Supply Facilities* should be submitted with all Underground Injection Control (UIC) registration applications for public water supply facilities for which a UIC Class V **well type** technical compliance form does not exist. **Well type** technical compliance documents exist for:

- stormwater,
- open-loop ground source heat pump,
- motor vehicle rinse water, snow/ice melt, or rain drip.

This technical compliance form should be used by the applicant and Massachusetts Department of Environmental Protection (MassDEP) to determine whether a UIC Registration may be approved. Depending upon responses to questions provided on this form, MassDEP may contact you for additional information.

Technical Compliance forms are not required if you are registering UIC wells for the purpose of closing all of them.

For more information, the MassDEP *Standard Design Guidelines for Shallow UIC Class V Injection Wells* and the MassDEP fact sheet titled *Registration of Discharges to the Ground from Pump Houses and Other Public Water System Facilities Including Discharges from In-line Analyzers* are available in the "Guidance" section of the following MassDEP UIC program's web page:

<http://www.mass.gov/eea/agencies/massdep/water/drinking/underground-injection-control.html> All questions regarding the UIC program should be addressed to askUIC@state.ma.us or to Joe Cerutti by phone at 617 292-5859 or by mail at the address shown at the end of this document. You may also contact the MassDEP Drinking Water Program at Program.Director-DWP@state.ma.us Subject: UIC, or by phone at 617-292-5770.

A. Residential/Facility Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Facility/Residential Property Name _____
 Facility/Residential Property Street Address _____
 City/Town _____ State _____ Zip Code _____

B. Preparer Information

Preparer Name _____ Preparer Address (if different from facility) _____
 City/Town _____ State _____ Zip Code _____
 Zip _____ Telephone Number _____
 Preparer's Email _____ Preparer's Phone # _____



UIC Class V Well Technical Compliance Form for Public Water Supply Facilities

(attach to your BRP WS 06 UIC Registration application form)

C. Technical Compliance Questions

1. Will the discharge contain any sanitary waste or sanitary wastewater? Yes No
2. Will any sampling reagents be included in the discharge and/or are there any acidic chemicals stored on site that could potentially enter the UIC well from an accidental spill? Yes No
 - a. If yes, does the wastewater pass through a neutralization crock (or other pH neutralization system) prior to discharge to the UIC well? Yes No
3. Will the UIC well receive discharges from a pump house located at a water supply well and/or is the UIC well located within the Zone I or Zone A of a public water supply source? Yes No

If no, skip to Question Number 6.
4. Is the UIC well located within the Zone I of a public water supply well? Yes No
 - a. If yes, has the MassDEP Drinking Water Program in the applicable regional office approved of the UIC discharge within the Zone I? Yes No
5. Are there chemicals stored in the pump house or in the catchment areas to any entry points (e.g. floor drain) to the UIC well that are unrelated to water supply treatment or distribution? Yes No
6. Are there any water supply treatment chemicals stored in the catchment areas to any entry points (e.g. floor drain) to the UIC well? Yes No
 - a. If yes, are those chemicals located in a bermed area which can hold at least 110% of the total volume of stored liquid chemicals and chemical solutions? Yes No
7. Do any floor drains discharge to the UIC well? Yes No
 - a. If yes, do you have a Standard Operating Procedure (SOP) in place to temporarily isolate and secure all floor drains during work that uses potential contaminants within the catchment area to the floor drain? Yes No
8. Are there any pumps or engines that require periodic oil/fluid changes in the vicinity of any floor drains that discharge to the UIC well? Yes No
 - a. If yes, are those pumps or engines located in bermed areas? Yes No
 - b. If you answered No to 8.a., did you answer Yes to 7.a.? Yes No
9. Will the discharge include any brine discharges from the regeneration of cation or anion exchange water treatment filter media? Yes No
 - a. If yes, is the treatment media being regenerated removing any contaminants in the pre-treated water that exceed a maximum contaminant level (MCL) concentration per the MassDEP Drinking Water regulations, 310 CMR 22.00 (does not include contaminants with secondary MCL that are listed in 310 CMR 22.07D)? Yes No



Massachusetts Department of Environmental Protection
Bureau of Water Resources – Drinking Water Program
**UIC Class V Well Technical Compliance Form for
Public Water Supply Facilities**
(attach to your BRP WS 06 UIC Registration application form)

C. Technical Compliance Questions (cont.)

10. Are any well additives being used or proposed for use that will be discharged to the UIC well other than water treatment additives present in the finished drinking water? Yes No
- a. If yes, have you completed a Proposal for Chemical Use (additive) in a UIC Class V Well form? Yes No
11. Do all of the UIC well locations meet all applicable minimum setback distances that are listed in the MassDEP Standard Design Guidelines for Shallow UIC Class V Injection Wells? Yes No
12. Is a minimum vertical separation distance of four feet met between the base of each of the Class V UIC wells (measured from base of filter sand or stone placed beneath UIC well (if applicable)) and the seasonal high groundwater (water table) elevation? Yes No
13. Is a minimum vertical separation distance of five feet met between the base of each of the Class V UIC wells (measured from base of filter sand or stone placed beneath UIC well (if applicable)) and the top of bedrock? Yes No
-

D. Certification Statement

I certify the following under penalty of law:

This document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my diligent inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

I also hereby acknowledge that I shall submit an updated UIC Class V Well Technical Compliance Form for Public Water Supply Facilities upon a change in activity which may result in ineligibility for the well's "technical compliance" status. I hereby acknowledge that I shall allow MassDEP staff on-site to perform inspections to assess the well's technical compliance.

Signature

Date

Print Name

Position/Title