**Underground Injection Control (UIC) Well Registration Form for Non-Municipal Stormwater Roads, Parking, and Roof**

The purpose of this form is to register with the Department of Ecology privately owned UIC wells that manage stormwater. Use form ECY 040-47c for industrial and commercial facilities.

# Facility Name and Location

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Facility Name | |  | | | | |
| Facility Address | |  | | | | |
| City |  |  | State |  | Zip |  |
| Facility Phone | |  | | | | |
| County | |  | | | | |

# Contact Information

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Well Owner**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Name |  | | | | | | Organization |  | | | | | | Address |  | | | | | | City |  | State |  | Zip |  | | Phone |  | | | | Email |  | | | | **Property Owner** ( Same as Well Owner, **OR**:)   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Name |  | | | | | | Organization |  | | | | | | Address |  | | | | | | City |  | State |  | Zip |  | | Phone |  | | | | Email |  | | | |

**Technical Contact**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name |  | | | | |
| Organization |  | | | | |
| Address |  | | | | |
| City |  | State |  | Zip |  |
| Phone |  | | | | |
| Email |  | | | | |

# Protecting Water Resources

**If your UIC well is in a Wellhead Protection Area, Critical Aquifer Recharge Area, or other Ground Water Protection Area, your local government may have additional ordinances or requirements. Please contact your local city or county for more information.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 1: UIC Well Information - Complete this table for all UIC wells. | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| Well Name |  |  |  |  |  |  |
| Construction Date |  |  |  |  |  |  |
| Latitude (in decimal format) |  |  |  |  |  |  |
| Longitude (in decimal format) |  |  |  |  |  |  |
| [[1]](#footnote-1)EPA well type (see table below) |  |  |  |  |  |  |
| Status (Active, Unused, Closed, Proposed) |  |  |  |  |  |  |
| 2UIC construction type |  |  |  |  |  |  |
| 3If IT, was it constructed in accordance with approved stormwater manual at time of construction? | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |
| Depth of UIC well |  |  |  |  |  |  |
| Within 1000 feet of surface water? | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |
| Within 100 feet of a drinking water well or spring? | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |
| Zoning (Commercial, Residential, Industrial, Other (describe)) |  |  |  |  |  |  |
| Within a Ground Water Protection Area?  (Wellhead Protection Area  (WHPA), Critical Aquifer Recharge Area (CARA), or Other (describe)) | No  WHPA  CARA  Other | No  WHPA  CARA  Other | No  WHPA  CARA  Other | No  WHPA  CARA  Other | No  WHPA  CARA  Other | No  WHPA  CARA  Other |
| 4Is the UIC well located above a high-susceptible aquifer? | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |
| Is a confining layer between the base of UIC well and top of aquifer? | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |
| Does the UIC well discharge below the confining layer? | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |

EPA Class V Well Types (This form may only be used for type 5D2. If you have another well type, please contact us for the correct form.)

|  |  |  |  |
| --- | --- | --- | --- |
| **5A18** Cooling Water Return | **5A6** Geothermal Heat | **5F**  Septic System (Gen) | **5C2** Heat/Air Pump Return |
| **5H1** Stormwater | **5B4** Aquifer Recharge/Storage | **5A**  Industrial Process Water | **5B6**  Aquifer remediation |
| **5H** Industrial Storm Runoff | **5W9** Untreated Sewage | **5F**  Septic System (Well Disposal) | **5X**  Other Wells |
| **5H3** Special Drainage Water | **5E** Cesspool | **5F**  Septic System (Drainfield) | **5K**  Motor Vehicle Waste |
| **2A** Inject Brine From Oil And Gas Operations | | **5B3** Subsidence control wells |  |

2Well Construction Type Abbreviations: DW - Drywell; DF – Drainfield; IT - Infiltration Trench with Perforated Pipe, O - Other (describe), C - chamber

3Infiltration Trenches with Perforated Pipe (UIC construction type = IT) that were constructed on or after 2/3/2006, verify that construction follows the Ecology stormwater manual on or an equivalent approved manual.

4Go to WA Dept. of Health Source Water Assessment Protection Mapping Application, <https://fortress.wa.gov/doh/swap/> if in wellhead area, click on mapped wellhead area

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 2: Complete this table for all UIC stormwater wells, except for infiltration trenches, constructed on or after 2/3/2006. Complete either Table 3, 4 or 5 for infiltration trenches. Ecology will determine rule authorization for new UIC wells with the information collected in Table 2. The pretreatment described below only treats stormwater containing solids, metals or oil. | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| Well Name |  |  |  |  |  |  |
| Type of drainage area1 | P/D  NP Roof  Metal Roof  Road | P/D  NP Roof  Metal Roof  Road | P/D  NP Roof  Metal Roof  Road | P/D  NP Roof  Metal Roof  Road | P/D  NP Roof  Metal Roof  Road | P/D  NP Roof  Metal Roof  Road |
| At least five feet between the base of the well and the water table?  *If no, separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench & overflow structure is adequate* | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No | Yes  No |
| Treatment capacity of the unsaturated zone from Table 5.2 **2,3**  *If minimum thicknesses are NOT present at the site, or are unknown, select "None" (no treatment capacity).* | None  Low  Medium  High | None  Low  Medium  High | None  Low  Medium  High | None  Low  Medium  High | None  Low  Medium  High | None  Low  Medium  High |
| Pollutant loading classification of stormwater from Table 5.3**2** | Insignificant  Low  Medium  High | Insignificant  Low  Medium  High | Insignificant  Low  Medium  High | Insignificant  Low  Medium  High | Insignificant  Low  Medium  High | Insignificant  Low  Medium  High |
| Treatment required from  Table 5.4 **2,4** | None  Two-stage Dry Well  Remove solids  Remove oil  Remove solids & oil | None  Two-stage Dry Well  Remove solids  Remove oil  Remove solids & oil | None  Two-stage Dry Well  Remove solids  Remove oil  Remove solids & oil | None  Two-stage Dry Well  Remove solids  Remove oil  Remove solids & oil | None  Two-stage Dry Well  Remove solids  Remove oil  Remove solids & oil | None  Two-stage Dry Well  Remove solids  Remove oil  Remove solids & oil |
| Treatment selected from approved stormwater manual (swale, etc.)4 |  |  |  |  |  |  |

**1 Type of drainage area abbreviations**: P/D = Parking Lot or Driveway; NP Roof = Nonpollutant Generating Roof (includes asphalt roofs)

**2** For these tables and how to use them, see Western (V1.4-16,16) or Eastern Stormwater Manual (Ch. 5.6-16, 17) <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Stormwater-manuals>

**3** The minimum thickness requirements from this table must be met along with the type of unsaturated zone material. The unsaturated zone is the zone between the top of the water table and the land surface.

**4** See the western or eastern stormwater manual for treatment to remove solids and oil. <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Stormwater-manuals>

| Table 3: Infiltration Trenches (with perforated pipe) with soils that are considered a treatment BMP located in Western WA and constructed after 2/3/2006. Design requirements are found in the Stormwater Management Manual for Western WA (SMMWW)1. | | | | |
| --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 |
| Well Name |  |  |  |  |
| Soils beneath trench considered a treatment BMP2? | Yes  No, go to Table 4 | Yes  No, go to Table 4 | Yes  No, go to Table 4 | Yes  No, go to Table 4 |
| At least 5 ft. of unsaturated zone between the trench base and the water table or impermeable layer? | Yes,  No.  Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate |
| At least 18 inches of soil, considered as treatment, beneath trench (located within unsaturated zone)? | Yes  No. Cannot rule authorize unless ≥ 18 inches. Go to Table 4 | Yes  No. Cannot rule authorize unless ≥ 18 inches. Go to  table 4 | Yes  No. Cannot rule authorize unless ≥ 18 inches. Go to  Table 4 | Yes  No. Cannot rule authorize unless ≥ 18 inches. Go to  Table 4 |
| Treatment soils beneath trench have 5 mil equivalents CEC3/100 grams? | Yes  No, then not a treatment BMP3. Go to Table 4 | Yes  No, then not a treatment BMP. Go to Table 4 | Yes  No, then not a treatment BMP. Go to Table 4 | Yes  No, then not a treatment BMP. Go to Table 4 |
| Is the stormwater from an NPGIS4 roof? | Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions  No | Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions.  No | Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions.  No | Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions.  No |
| Is the stormwater from a high use site? See SMMWW Glossary. | Yes, approved oil removal required plus pretreatment. List BMP.  No | Yes, approved oil removal required plus pretreatment. List BMP.  No | Yes, approved oil removal required plus pretreatment. List BMP.  No | Yes, approved oil removal required plus pretreatment. List BMP.  No |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 3 (Continued): Infiltration trenches (with perforated pipe) with soils that are considered a treatment BMP located in Western WA and constructed after 2/3/2006  Design requirements are found in the Stormwater Management Manual for Western WA (SMMWW)1. | | | | |
|  | 1 | 2 | 3 | 4 |
| Will approved pretreatment (or any approved basic treatment) be added in front of the trench? | Yes, list approved BMP.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  No. Then cannot be rule authorized.  If NPGIS roof runoff, only sump/catch basin required. | Yes, list approved BMP.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  No. Then cannot be rule authorized.  If NPGIS roof runoff, only sump/catch basin required. | Yes, list approved BMP.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  No. Then cannot be rule authorized.  If NPGIS roof runoff, only sump catch basin required. | Yes, list approved BMP.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  No. Then cannot be rule authorized.  If NPGIS roof runoff, only sump/catch basin required. |
| Is the initial infiltration rate of the trench ≤ 9 in/hour? | Yes  No. Cannot be rule authorized. | Yes  No. Cannot be rule authorized. | Yes  No. Cannot be rule authorized. | Yes  No. Cannot be rule authorized. |
| Which approach was used to determine the long-term infiltration rate of the trench, which approach was used? | USDA soil textural classification.  ASTM Gradation testing for full scale.  In-situ Infiltration measurements. | USDA soil textural classification.  ASTM Gradation testing for full scale.  In-situ Infiltration measurements. | USDA soil textural classification.  ASTM Gradation testing for full scale.  In-situ Infiltration measurements. | USDA soil textural classification.  ASTM Gradation testing for full scale.  In-situ Infiltration measurements. |

**1 SMMWW** – Stormwater Management Manual for Western WA. <https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMWW/2019SWMMWW.htm>

**2 BMP** – Best Management Practice

**3 CEC** – Cation Exchange Capacity

**4 NPGIS** – Non Pollutant Generating Surface, i.e. bike pathways with no stormwater drainage from roadways, fenced fire lanes, infrequently used maintenance access roads, impervious surfaces not subject to motorized vehicles or application of sand or deicing compounds, metal roofs covered with an inert non leachable material and roofs not subject to venting of manufacturing, commercial, or other indoor pollutants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 4: Infiltration trenches (with perforated pipe) with soils that are considered a treatment BMP located in Eastern WA and constructed after 2/3/2006  Design requirements are contained in Stormwater Management Manual for Eastern WA (SMMEW)1. | | | | |
|  | 1 | 2 | 3 | 4 |
| Well Name |  |  |  |  |
| Soils beneath trench considered a treatment BMP1? | Yes,  No. Go to Table 4 | Yes,  No. Go to Table 4 | Yes,  No. Go to Table 4 | Yes,  No. Go to Table 4 |
| At least 5 ft. unsaturated zone between the trench base and the water table or impermeable layer? | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate3. | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate2. | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate2. | Yes,  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate2. |
| At least 18 inches of soil considered as treatment beneath trench (located within unsaturated zone)?. See SMMEW, page 5-28. | Yes  No. Cannot rule authorize unless ≥ 18 inches; except for designed vegetated infilt. facility w/ active root zone. | Yes  No. Cannot rule authorize unless ≥ 18 inches; except for designed vegetated infilt. facility w/ active root zone. | Yes  No. Cannot rule authorize unless ≥ 18 inches; except for designed vegetated infilt. facility w/ active root zone. | Yes  No. Cannot rule authorize unless ≥ 18 inches; except for designed vegetated infilt. facility w/ active root zone. |
| Treatment soils beneath trench have 5 mill equivalents CEC4/100 grams? | Yes  No, then not a treatment BMP. | Yes  No, then not a treatment BMP. | Yes  No, then not a treatment BMP. | Yes  No, then not a treatment BMP. |
| Is the stormwater from an NPGIS5 roof? | Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions  No | Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions  No | Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions  No | Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions  No |
| Is the stormwater from a high use site6 or high average daily traffic road? | Yes. Approved oil removal required, list BMP.  No | Yes. Approved oil removal required, list BMP.      .  No | Yes. Approved oil removal required, list BMP.  No | Yes. Approved oil removal required, list BMP.  No |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 4 (continued): Infiltration Trenches (with perforated pipe) located in Eastern WA and constructed after 2/3/2006 Design requirements are contained in Stormwater Management Manual for Eastern WA (SMMEW). | | | | |
|  | 1 | 2 | 3 | 4 |
| Will approved treatment (or any approved basic treatment) be added in front of trench? | Yes. List approved BMP2.  No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required). | Yes. List approved BMP.  No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required). | Yes. List approved BMP.  No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required). | Yes. List approved BMP.  No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required). |
| Initial infiltration rate of trench at ≤ 9 in/hour? | Yes  No. Cannot be considered as treatment BMP. Go to Table 4. | Yes  No. Cannot be considered as treatment BMP. Go to Table 4. | Yes  No. Cannot be considered as treatment BMP. Go to Table 4. | Yes  No. Cannot be considered as treatment BMP. Go to Table 4. |
| Is the long-term ≤ 3 in/hr, see SMMEW, SSC-4. | Yes  No. Cannot be rule authorized. | Yes  No. Cannot be rule authorized. | Yes  No. Cannot be rule authorized. | Yes  No. Cannot be rule authorized. |

**1 SWMMEW -** Stormwater Management Manual for Eastern WA, <https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMEW/2019SWMMEW.htm>

**2  BMP** – Best management practice

**3** Send Groundwater mounding analysis data to UIC Program Coordinator

**4 CEC** – Cation-Exchange Capacity, see page 5.28 SMMEW.

**5 NPGIS** – non pollutant-generating impervious surface, i.e. bike pathways with no stormwater drainage from roadways, fenced fire lanes, infrequently used maintenance access roads, impervious surfaces not subject to motorized vehicles or application of sand or deicing compounds, metal roofs covered with an inert non leachable material and roofs not subject to venting of manufacturing, commercial, or other indoor pollutants

**6 High Use site** or average daily traffic – definitions found in either Stormwater Management Manual for Eastern WA, https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMEW/2019SWMMEW.htm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 5: Infiltration Trenches without soil considered as treatment (flow control) located in Western or Eastern WA Sites Design requirements are found in the Stormwater Management Manual for Western WA (SMMWW) or Eastern WA (SMMEW)1 | | | | |
|  | 1 | 2 | 3 | 4 |
| Well Name |  |  |  |  |
| At least 5 ft. of unsaturated zone between the trench base and the water table or impermeable layer? | Yes  No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate2. | Yes  No, Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate | Yes  No, Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate. | Yes  No, Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate |
| Will a basic treatment BMP3 (solids removal) be added in front of the trench? List BMP name. | Yes, list BMP3  No, then cannot be rule authorized (except for stormwater from a NPGIS4). | Yes, list BMP    No, then cannot be  No, then cannot be rule authorized (except for stormwater from a NPGIS). | Yes, list BMP    No, then cannot be  No, then cannot be rule authorized (except for stormwater from a NPGIS). | Yes, list BMP    No, then cannot be  No, then cannot be rule authorized (except for stormwater from a NPGIS). |
| If high use site5 or if located in Eastern WA, high average daily traffic road? | Yes, then oil control is required, list BMP  No | Yes, then oil control is required, list BMP  No | Yes, then oil control is required, list BMP  No | Yes, then oil control is required, list BMP  No |

**1Stormwater Management Manual for Eastern or Western WA**, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Stormwater-manuals>

**2**Send ground water mounding analysis data to UIC Program Coordinator.

**3 BMP** – Best management practice

**4 NPGIS** – non pollutant-generating impervious surface, Non pollutant generating impervious surface; i.e. bike pathways with no stormwater drainage from roadways, fenced fire lanes, infrequently used maintenance access roads, impervious surfaces not subject to motorized vehicles or application of sand or deicing compounds, metal roofs covered with an inert non leachable material and roofs not subject to venting of manufacturing, commercial, or other indoor pollutants

**5 High Use site** or average daily traffic – definitions found in either Stormwater Management Manual for Eastern WA glossary

<https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Stormwater-manuals>

## Signature of authorized representative

I hereby certify that the information contained in this registration is true and correct to the best of my knowledge.

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Name of legally authorized representative | Title |
|  |  |
| Signature of legally authorized representative | Date |

|  |  |
| --- | --- |
| **For Department Use Only** | |
| Site ID: |  |
| Date Received: |  |
| Date Acknowledged: |  |
| Date Entered: |  |
| Final Disposition: |  |

**Please send completed form to:**

**UIC Coordinator, Water Quality Program**

**Washington State Department of Ecology**

**P.O. Box 47600**

**Olympia, WA 98504-7600**

# Instructions to Complete the UIC Registration Form for Non-Municipal Stormwater Roads, Parking, and Roof

## Facility Name and Location:

Provide the requested facility information for where the UIC wells are or will be located.

## Contact Information

* **Well Owner:** Provide the well owner’s information.
* **Property Owner:** Complete if different then the well owner.
* **Technical Contact:** Provide the information from the person to contact in case there are questions about this registration.

## Protecting Water Resources

Examples of Ground Water Protection Areas:

* A Wellhead Protection Area is a designated area around a drinking water well to help protect the drinking water supply from contamination. Contact your local health jurisdiction to determine if your UIC wells are located in a well head protection area.
* A critical aquifer recharge area (CARA) is defined as the geographic areas where an aquifer that is a source of drinking water is vulnerable to contamination that would affect its use. Contact your county or city planning department for more information.

## **Table 1:** Complete for all UIC wells

* Well Name: Enter an identifying name or number. This may be anything you like, but must be unique per site.
* Construction Date: Provide the approximate date the well was, or will be, installed.
* Latitude and longitude: Enter the latitude and longitude in **decimal form** (Geographic Coordinate System) for each UIC well to ideally include 6 digits of precision to the right of the decimal. You can try Google Maps at <https://www.mapcoordinates.net/en> .
* EPA Well Type: EPA well types are listed below Table 1.
* Status: ‘Active’ if the well is in use, ‘Unused’ if the well is not in use, ‘Closed’, or ‘Proposed’ if the well is in the design phase.
* Construction Type: Provide the well construction type and use the following abbreviations: DW - Drywell; DF – Drain field; IT - Infiltration Trench with Perforated Pipe; O – Other (describe).
* Well Depth: Provide the approximate well depth.
* Check off if the UIC well is within 1000 feet of a surface waterbody, such as a lake, river, or stream.
* Check off if the UIC well is within 100 feet of a drinking water well.
* Check the appropriate box if your UIC Wells are located in a Ground Water Protection Area; Examples of Ground Water Protection Areas:
  + A Wellhead Protection Area is a designated area around a drinking water well to help protect the drinking water supply from contamination. Contact your local health jurisdiction to determine if your UIC wells are located in a Wellhead Protection Area.
  + A Critical Aquifer Recharge Area (CARA) is defined as the geographic area where an aquifer that is a source of drinking water is vulnerable to contamination. Contact your county or city planning department for more information.

## Table 2: Complete for UIC wells, except for infiltration trenches, in use after February 3, 2006

Table 2 must be completed for UIC wells that are built and in use **after** February 3, 2006. The pretreatment options only remove solids, metals or oils from the stormwater. Additional information on Table 2 questions can be found in the document either of the Eastern or Western Stormwater Manuals, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Stormwater-manuals> . If you do not have access to the internet, contact the Ecology’s UIC contact for more information. Contact information is at the end of the page.

* Well Name or number: Enter the identification name or number entered on Table 1.
* Check whether a five foot separation exists between the base of the UIC well and the top of the water table. Use site-specific information if available, or visit Ecology’s Water Resource Well Log Viewer at <https://appswr.ecology.wa.gov/wellconstruction/map/WCLSWebMap/default.aspx> and find a water resource well within a quarter mile of the site to determine the water table elevation in your area. If less than 5 feet of separation between base of well and top of the ground water table then analysis has to be completed to determine if the infiltrating water will come up into the system during a storm event.
* Verify treatment capacity and minimum thickness by using either on-site information or by visiting Ecology’s Water Resource Well Log Viewer at <https://appswr.ecology.wa.gov/wellconstruction/map/WCLSWebMap/default.aspx> and finding a water resource well within a quarter mile of the site to determine the vadose zone material at your site. If the minimum thickness unknown or is not present, the treatment capacity would be “none”.
* Pollutant load of your facility is determined by reviewing the land use around the well or the average daily traffic volume, see Table 5.3.
* Treatment is dependent on how the two prior questions were answered. Table 5.4, in G*uidance for UIC Wells that Manage Stormwater*, must be used to answer this question.
* Selection of treatment (if required): Must be an approved Ecology treatment BMP. Refer to either the Stormwater Management Manual for Eastern or Western Washington depending on the location of the UIC well, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Stormwater-manuals> or the approved treatment BMP list found at <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Emerging-stormwater-treatment-technologies>

## **Table 3: Infiltration trenches (with perforated pipe) with soils that are considered a treatment BMP located in Western WA and constructed after 2/3/2006.**

King County and WA DOT call UIC Coordinator.

* Well Name or number: Enter the identification name or number entered on Table 1.
* Check off if the soil around the trench meets the requirements to be considered a treatment BMP.
* Is there 5 ft. of separation between the trench base and the top of the ground water table? 3 ft. separation is allowed but mounding analysis is required to show separation exists during a storm event.
* Is the treatment BMP soil depth at least 18 inches? If not then is not considered a treatment BMP.
* Does the treatment BMP soils have 5 mil equivalents of cation exchange capacity (CEC)?
* Does the stormwater flow from a non-pollutant generating impervious surface?
* Does the stormwater flow from a high pollutant use site? See either the SMMWW or SMMEW for definition and examples.
* Approved treatment is required for rule authorization List approved BMP.
* Check if the short-term infiltration rate is either 2.4 in/hour to a depth of 2.5 times the depth of trench or 6 ft.
* Check off which approach was used to determine the long-term infiltration.

Find the design requirements in the Stormwater Management Manual for Western WA (SMMWW).

## Table 4: Infiltration trenches (with perforated pipe) with soils that are considered a treatment BMP located in Eastern WA and constructed after 2/3/2006

* Well Name or number: Enter the identification name or number entered on Table 1.
* Check off if the soil beneath the trench meets the requirements to be considered a treatment BMP.
* Is there 5 ft. of separation between the trench base and the top of the ground water table? 3 ft. separation is allowed but mounding analysis is required to show separation exists during a storm event.
* Is the treatment BMP soil depth at least 18 inches? If not then is not considered a treatment BMP. Does the treatment BMP soils have 5 mil equivalents of cation exchange capacity?
* Does the stormwater flow from a non-pollutant generating impervious surface?
* Does the stormwater flow from a high pollutant use site? See the SMMEW for definition and examples, http://www.ecy.wa.gov/programs/wq/stormwater/easternmanual/manual.html.
* Approved treatment is required for rule authorization List approved BMP.
* Check if the short-term infiltration rate is either 2.4 in/hour?
* Check off which approach was used to determine the long-term infiltration.

## **Table 5: Infiltration trenches without soil considered as treatment (flow control) located in Western or Eastern WA**

**(**King County and WA DOT call UIC Coordinator).

* Well Name or number: Enter the identification name or number entered on Table 1.
* Is there 5 ft. of separation between the trench base and the top of the ground water table? 3 ft. separation is allowed but mounding analysis is required to show separation exists during a storm event.
* Basic treatment (solids removal) is required. List Ecology approved treatment BMP.
* Does the stormwater flow from a high pollutant use site? See either the SMMWW or SMMEW for definition and examples.

### For more information contact:

Underground Injection Control,   
Washington State Department of Ecology

P.O. Box 47600

Olympia, WA 98504-7600

Phone: 360-407-6143

Email:[maha461@ecy.wa.gov](mailto:maha461@ecy.wa.gov)

Web: <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Underground-injection-control-program>

1. [↑](#footnote-ref-1)