



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 _____

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.

Protecting Water Resources

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 EPA well type (see table below)						
Status (<u>A</u> ctive, <u>U</u> nused, <u>C</u> losed, <u>P</u> roposed)						
² UIC construction type						
³ If IT, was it constructed in accordance with approved stormwater manual at time of construction?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth of UIC well						
Within 1000 feet of surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 100 feet of a drinking water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> 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))	<input type="checkbox"/> No <input type="checkbox"/> WHPA <input type="checkbox"/> CARA <input type="checkbox"/> Other	<input type="checkbox"/> No <input type="checkbox"/> WHPA <input type="checkbox"/> CARA <input type="checkbox"/> Other	<input type="checkbox"/> No <input type="checkbox"/> WHPA <input type="checkbox"/> CARA <input type="checkbox"/> Other	<input type="checkbox"/> No <input type="checkbox"/> WHPA <input type="checkbox"/> CARA <input type="checkbox"/> Other	<input type="checkbox"/> No <input type="checkbox"/> WHPA <input type="checkbox"/> CARA <input type="checkbox"/> Other	<input type="checkbox"/> No <input type="checkbox"/> WHPA <input type="checkbox"/> CARA <input type="checkbox"/> Other
⁴ Is the UIC well located above a high-susceptible aquifer?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is a confining layer between the base of UIC well and top of aquifer?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the UIC well discharge below the confining layer?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

¹EPA 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.

Well Name	1	2	3	4	5	6
Type of drainage area ¹	<input type="checkbox"/> P/D <input type="checkbox"/> NP Roof <input type="checkbox"/> Metal Roof <input type="checkbox"/> Road	<input type="checkbox"/> P/D <input type="checkbox"/> NP Roof <input type="checkbox"/> Metal Roof <input type="checkbox"/> Road	<input type="checkbox"/> P/D <input type="checkbox"/> NP Roof <input type="checkbox"/> Metal Roof <input type="checkbox"/> Road	<input type="checkbox"/> P/D <input type="checkbox"/> NP Roof <input type="checkbox"/> Metal Roof <input type="checkbox"/> Road	<input type="checkbox"/> P/D <input type="checkbox"/> NP Roof <input type="checkbox"/> Metal Roof <input type="checkbox"/> Road	<input type="checkbox"/> P/D <input type="checkbox"/> NP Roof <input type="checkbox"/> Metal Roof <input type="checkbox"/> Road
At least five feet between the base of the well and the water table? <i>If no, separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench & overflow structure is adequate</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Treatment capacity of the unsaturated zone from Table 5.2 ^{2,3} <i>If minimum thicknesses are NOT present at the site, or are unknown, select "None" (no treatment capacity).</i>	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Pollutant loading classification of stormwater from Table 5.3 ²	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Treatment required from Table 5.4 ^{2,4}	<input type="checkbox"/> None <input type="checkbox"/> Two-stage Dry Well <input type="checkbox"/> Remove solids <input type="checkbox"/> Remove oil <input type="checkbox"/> Remove solids & oil	<input type="checkbox"/> None <input type="checkbox"/> Two-stage Dry Well <input type="checkbox"/> Remove solids <input type="checkbox"/> Remove oil <input type="checkbox"/> Remove solids & oil	<input type="checkbox"/> None <input type="checkbox"/> Two-stage Dry Well <input type="checkbox"/> Remove solids <input type="checkbox"/> Remove oil <input type="checkbox"/> Remove solids & oil	<input type="checkbox"/> None <input type="checkbox"/> Two-stage Dry Well <input type="checkbox"/> Remove solids <input type="checkbox"/> Remove oil <input type="checkbox"/> Remove solids & oil	<input type="checkbox"/> None <input type="checkbox"/> Two-stage Dry Well <input type="checkbox"/> Remove solids <input type="checkbox"/> Remove oil <input type="checkbox"/> Remove solids & oil	<input type="checkbox"/> None <input type="checkbox"/> Two-stage Dry Well <input type="checkbox"/> Remove solids <input type="checkbox"/> Remove oil <input type="checkbox"/> 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 BMP ² ?	<input type="checkbox"/> Yes <input type="checkbox"/> No, go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No, go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No, go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No, go to Table 4
At least 5 ft. of unsaturated zone between the trench base and the water table or impermeable layer?	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate	<input type="checkbox"/> Yes, <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches. Go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches. Go to table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches. Go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches. Go to Table 4
Treatment soils beneath trench have 5 mil equivalents CEC ³ /100 grams?	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP ³ . Go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP. Go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP. Go to Table 4	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP. Go to Table 4
Is the stormwater from an NPGIS ⁴ roof?	<input type="checkbox"/> Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions <input type="checkbox"/> No	<input type="checkbox"/> Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions. <input type="checkbox"/> No	<input type="checkbox"/> Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions. <input type="checkbox"/> No	<input type="checkbox"/> Yes, only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions. <input type="checkbox"/> No
Is the stormwater from a high use site? See SMMWW Glossary.	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> No	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> No	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> No	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> 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?	<input type="checkbox"/> Yes, list approved BMP. <input type="checkbox"/> <hr/> <input type="checkbox"/> No. Then cannot be rule authorized. If NPGIS roof runoff, only sump/catch basin required.	<input type="checkbox"/> Yes, list approved BMP. <input type="checkbox"/> <hr/> <input type="checkbox"/> No. Then cannot be rule authorized. If NPGIS roof runoff, only sump/catch basin required.	<input type="checkbox"/> Yes, list approved BMP. <input type="checkbox"/> <hr/> <input type="checkbox"/> No. Then cannot be rule authorized. If NPGIS roof runoff, only sump catch basin required.	<input type="checkbox"/> Yes, list approved BMP. <input type="checkbox"/> <hr/> <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.
Which approach was used to determine the long-term infiltration rate of the trench, which approach was used?	<input type="checkbox"/> USDA soil textural classification. <input type="checkbox"/> ASTM Gradation testing for full scale. <input type="checkbox"/> In-situ Infiltration measurements.	<input type="checkbox"/> USDA soil textural classification. <input type="checkbox"/> ASTM Gradation testing for full scale. <input type="checkbox"/> In-situ Infiltration measurements.	<input type="checkbox"/> USDA soil textural classification. <input type="checkbox"/> ASTM Gradation testing for full scale. <input type="checkbox"/> In-situ Infiltration measurements.	<input type="checkbox"/> USDA soil textural classification. <input type="checkbox"/> ASTM Gradation testing for full scale. <input type="checkbox"/> 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 BMP ¹ ?	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Go to Table 4	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Go to Table 4	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Go to Table 4	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Go to Table 4
At least 5 ft. unsaturated zone between the trench base and the water table or impermeable layer?	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate ³ .	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate ² .	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate ² .	<input type="checkbox"/> Yes, <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate ² .
At least 18 inches of soil considered as treatment beneath trench (located within unsaturated zone)?. See SMMEW, page 5-28.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches; except for designed vegetated infiltr. facility w/ active root zone.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches; except for designed vegetated infiltr. facility w/ active root zone.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches; except for designed vegetated infiltr. facility w/ active root zone.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless \geq 18 inches; except for designed vegetated infiltr. facility w/ active root zone.
Treatment soils beneath trench have 5 mill equivalents CEC ⁴ /100 grams?	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No, then not a treatment BMP.
Is the stormwater from an NPGIS ⁵ roof?	<input type="checkbox"/> Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions <input type="checkbox"/> No	<input type="checkbox"/> Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions <input type="checkbox"/> No	<input type="checkbox"/> Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions <input type="checkbox"/> No	<input type="checkbox"/> Yes. Only sump/catch basin required for treatment. Skip next 2 questions and go to infiltration rate questions <input type="checkbox"/> No
Is the stormwater from a high use site ⁶ or high average daily traffic road?	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> No	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> No	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> No	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> 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?	<input type="checkbox"/> Yes. List approved BMP ² . <input type="checkbox"/> No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required).	<input type="checkbox"/> Yes. List approved BMP. <input type="checkbox"/> No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required).	<input type="checkbox"/> Yes. List approved BMP. <input type="checkbox"/> No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required).	<input type="checkbox"/> Yes. List approved BMP. <input type="checkbox"/> No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required).
Initial infiltration rate of trench at ≤ 9 in/hour?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP. Go to Table 4.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP. Go to Table 4.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP. Go to Table 4.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP. Go to Table 4.
Is the long-term ≤ 3 in/hr, see SMMEW, SSC-4.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be rule authorized.

¹ **SMMEW** - Stormwater Management Manual for Eastern WA, <https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMMEW/2019SWMMMEW.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/2019SWMMMEW/2019SWMMMEW.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?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate ² .	<input type="checkbox"/> Yes <input type="checkbox"/> No, Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate	<input type="checkbox"/> Yes <input type="checkbox"/> No, Separation down to 3 ft. may be allowed if mounding analysis determines no over topping into trench and overflow structure is adequate.	<input type="checkbox"/> Yes <input type="checkbox"/> 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 BMP ³ (solids removal) be added in front of the trench? List BMP name.	<input type="checkbox"/> Yes, list BMP ³ <input type="checkbox"/> No, then cannot be rule authorized (except for stormwater from a NPGIS ⁴).	<input type="checkbox"/> Yes, list BMP <input type="checkbox"/> No, then cannot be <input type="checkbox"/> No, then cannot be rule authorized (except for stormwater from a NPGIS).	<input type="checkbox"/> Yes, list BMP <input type="checkbox"/> No, then cannot be <input type="checkbox"/> No, then cannot be rule authorized (except for stormwater from a NPGIS).	<input type="checkbox"/> Yes, list BMP <input type="checkbox"/> No, then cannot be <input type="checkbox"/> No, then cannot be rule authorized (except for stormwater from a NPGIS).
If high use site ⁵ or if located in Eastern WA, high average daily traffic road?	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> No	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> No	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> No	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> 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**

To ask about the availability of this document in a format for the visually impaired, call the Water Quality Program at 360-407-6404. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

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 than 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:

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- 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://apps.wa.gov/waterresource/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://apps.wa.gov/waterresource/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 *Guidance 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>

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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.

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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

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

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