



# 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.*

## A. Contact Information

### Facility Name and Location

Facility Name \_\_\_\_\_  
Facility Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Phone at the facility \_\_\_\_\_  
Email \_\_\_\_\_  
County \_\_\_\_\_  
Township, Range, Section, Quarter-Quarter \_\_\_\_\_

### Well Owner

Name \_\_\_\_\_  
Organization \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Phone \_\_\_\_\_  
Email \_\_\_\_\_

### Technical Contact Person (Engineer, Contractor, Consultant)

Name \_\_\_\_\_  
Organization \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Phone \_\_\_\_\_  
Email \_\_\_\_\_

## B. Protecting Water Resources

**If a UIC well is in a Well Head Protection Area, Critical Aquifer Recharge Area, or other ground water protection area, local government may have additional ordinances or requirements. Please contact your local city or county for more information.**



**C. Table 1: Complete Table 1 for all UIC Wells**

	1	2	3	4	5	6	7
Owner's well ID							
Construction Date							
Latitude (in decimal degrees)							
Longitude (in decimal degrees)							
<sup>1</sup> EPA well type (see table below)							
Status (Active, <u>U</u> nused, <u>C</u> losed, Proposed)							
<sup>2</sup> UIC construction type							
<sup>3</sup> 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	<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	<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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Zoning (Commercial, Residential, Industrial, Other (describe))							
Within a Ground Water Protection Area? (Well Head Protection Zone (WHPZ), Critical Aquifer Recharge Area (CARA), or Other (describe))	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____	<input type="checkbox"/> No <input type="checkbox"/> WHPZ <input type="checkbox"/> CARA <input type="checkbox"/> Other _____

<sup>1</sup>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.)

5A19 Cooling water return	5A6 Geothermal heat	5W11 Septic system (gen)	
5D2 Stormwater	5R21 Aquifer recharge	5W20 Industrial process water	5X26 Aquifer remediation
5D4 Industrial storm runoff	5W9 Untreated sewage	5W31 Septic system (well disposal)	5X27 Other wells
5G30 Special drainage water	5W10 Cesspool	5W32 Septic system (drainfield)	5X28 Motor vehicle waste

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

<sup>3</sup>Infiltration 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: must meet the requirements based on whether they are used for treatment or not; such as, the infiltration rates, vertical separation and soil type.

**D. Table 2: For 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	7
Owner's well ID name or number							
Type of drainage area <sup>1</sup>	<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	<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 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 &amp; 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Treatment capacity of the vadose zone from Table 5.2 <sup>2</sup> , <sup>3</sup> <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	<input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Pollutant loading classification from Table 5.3 <sup>2</sup>	<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	<input type="checkbox"/> Insignificant <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Treatment from Table 5.4 <sup>2,3</sup>	<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	<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.) <sup>4</sup>	_____	_____	_____	_____	_____	_____	_____

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

<sup>2</sup> For these tables and how to use them, see the *Guidance for UIC Wells that Manage Stormwater*: <http://www.ecy.wa.gov/biblio/0510067.html>

<sup>3</sup> The minimum thickness requirements from this table must be met along with the type of vadose zone material. The vadose zone is the zone between the top of the water table and the land surface.

<sup>4</sup> See approved treatment options list at the UIC webpage, [treatment options for E and W WA](http://www.ecy.wa.gov/programs/wq/stormwater/manual.html) and Western Washington stormwater manual: <http://www.ecy.wa.gov/programs/wq/stormwater/manual.html> or Eastern Washington stormwater manual: <http://www.ecy.wa.gov/biblio/0410076.html>

**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.

Design requirements are found in the Stormwater Management Manual for Western WA (SMMWW). Summary of design requirements can also be found at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/InfilTrenchDesign-EastsideWestside.pdf>. The treatment described below only treats stormwater for containing solids, metals or oil.

	1	2	3	4
Owner's well ID names or numbers	_____	_____	_____	_____
Soils considered a treatment BMP <sup>1</sup> ?	<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 vadose zone <sup>2</sup> between the trench base and the water table or impermeable layer?	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.
Depth of soil considered as treatment at least 18 inches? See SMMWW <sup>3</sup> , page 3-84. (located within vadose zone)	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless ≥ 18 inches.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless ≥ 18 inches.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless ≥ 18 inches.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless ≥ 18 inches.
Treatment soils have 5 mil equivalents CEC <sup>4</sup> /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 <sup>5</sup> 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, Volume 1, glossary – page 23 and Volume V.	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> _____ <input type="checkbox"/> No	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> _____ <input type="checkbox"/> No	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> _____ <input type="checkbox"/> No	<input type="checkbox"/> Yes, approved oil removal required plus pretreatment. List BMP. <input type="checkbox"/> _____ <input type="checkbox"/> No

**TABLE 3 cont. 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.

Design requirements are found in the Stormwater Management Manual for Western WA (SMMWW)<sup>1</sup>. Summary of design requirements can also be found at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/InfilTrenchDesign-EastsideWestside.pdf>.

	1	2	3	4
Approved pretreatment (or any approved basic treatment)?	<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.
Short term infiltration rate at 2.4 in/hour to a depth of 2.5 times depth of trench or 6 ft?	<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.
Long term infiltration rate, which approach was used? (see SMMWW, page 3-75)	<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.

<sup>1</sup> BMP – Best Management Practice

<sup>2</sup> Vadose zone – unsaturated zone

<sup>3</sup> SMMWW – Stormwater Management Manual for Western WA. <http://www.ecy.wa.gov/programs/wq/stormwater/manual.html>

<sup>4</sup> CEC – Cation Exchange Capacity

<sup>5</sup> 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 without soil considered as treatment (flow control) located in Western or Eastern WA** King County and WA DOT call UIC Coordinator.

Design requirements are found in the Stormwater Management Manual for Western WA (SMMWW) or Eastern WA (SMMEW)<sup>1</sup>.

Summary of design requirements can also be found at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/InfiltTrenchDesign-EastsideWestside.pdf>.

The treatment described below only treats stormwater for containing solids, metals or oil.

	1	2	3	4
Owner's well ID names or numbers	_____	_____	_____	_____
At least 5 ft. of vadose zone between the trench base and the water table or impermeable layer?	<input type="checkbox"/> Yes <input type="checkbox"/> No, 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes <input type="checkbox"/> No, 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes <input type="checkbox"/> No, 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes <input type="checkbox"/> No, 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.
Basic treatment BMP <sup>2</sup> (solids removal)?	<input type="checkbox"/> Yes, list BMP _____ <input type="checkbox"/> No, then cannot be rule authorized (except for stormwater from a NPGIS <sup>3</sup> ).	<input type="checkbox"/> Yes, list BMP _____ <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 rule authorized (except for stormwater from a NPGIS).	<input type="checkbox"/> Yes. List BMP _____ <input type="checkbox"/> No, then cannot be rule authorized (except for stormwater from a NPGIS).
If high use site <sup>4</sup> 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"/> _____ <input type="checkbox"/> No	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> _____ <input type="checkbox"/> No	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> _____ <input type="checkbox"/> No	<input type="checkbox"/> Yes, then oil control is required, list BMP <input type="checkbox"/> _____ <input type="checkbox"/> No

<sup>1</sup>Stormwater Management Manual for Eastern WA, <http://www.ecy.wa.gov/programs/wq/stormwater/easternmanual/manual.html> or Stormwater Management Manual for Western WA, at <http://www.ecy.wa.gov/programs/wq/stormwater/manual.html>

<sup>2</sup>BMP – Best management practice

<sup>3</sup>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

<sup>4</sup>High Use site or average daily traffic – definitions found in either Stormwater Management Manual for Western WA, <http://www.ecy.wa.gov/programs/wq/stormwater/manual.html> or

**TABLE 5 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). Summary of design requirements can be found at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/InfilTrenchDesign-EastsideWestside.pdf> . WA DOT call UIC Coordinator.

	1	2	3	4
Owner's well ID names or numbers	_____	_____	_____	_____
Soils considered a treatment BMP <sup>1</sup> ?	<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. vadose zone between the trench base and the water table or impermeable layer?	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.	<input type="checkbox"/> Yes, <input type="checkbox"/> No. 3 ft. allowed if mounding analysis done and no over topping. Contact UIC coordinator or send data to show no over topping.
Depth of soil considered as treatment at least 18 inches? (located within vadose 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 infilt. facility w/ active root zone.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless $\geq$ 18 inches; except for designed vegetated infilt. facility w/ active root zone.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless $\geq$ 18 inches; except for designed vegetated infilt. facility w/ active root zone.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot rule authorize unless $\geq$ 18 inches; except for designed vegetated infilt. facility w/ active root zone.
Treatment soils have 5 mill equivalents CEC <sup>2</sup> /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 <sup>3</sup> 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 <sup>4</sup> or high average daily traffic road?	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> <input type="checkbox"/> No	<input type="checkbox"/> Yes. Approved oil removal required, list BMP. <input type="checkbox"/> <input type="checkbox"/> No

**TABLE 5 cont. 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). Summary of design requirements can be found at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/InfiltTrenchDesign-EastsideWestside.pdf>. WA DOT call UIC Coordinator

	1	2	3	4
Approved pretreatment (or any approved basic treatment)?	<input type="checkbox"/> Yes. List approved BMP. <input type="checkbox"/> <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"/> <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"/> <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"/> <input type="checkbox"/> No. Cannot be rule authorized, unless from NPGIS roof (only sump/catch basin required).
Short term infiltration rate at ≤ 2.4 in/hour?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP.	<input type="checkbox"/> Yes <input type="checkbox"/> No. Cannot be considered as treatment BMP.
Long term infiltration rate, minimum 0.5 in/hour and a maximum of 2.4 in/hour to a depth of 2.5 times the max. design flooded depth, see SMMEW, SSC-3 5/27.	<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.

<sup>1</sup>BMP – Best management practice

<sup>2</sup>CEC – Cation Exchange Capacity, see page 5.28 SMMEW,

<sup>3</sup>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

<sup>4</sup>High Use site or average daily traffic – definitions found in either Stormwater Management Manual for Western WA, <http://www.ecy.wa.gov/programs/wq/stormwater/manual.html> or

Stormwater Management Manual for Eastern WA, <http://www.ecy.wa.gov/programs/wq/stormwater/easternmanual/manual.html>

## 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

<b>For Department Use Only</b>	
Site ID:	
Date received:	
Date acknowledged:	
Date Entered:	
Final Disposition:	

***Please send completed form to: UIC Coordinator, Water Quality Program,  
Washington 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

## A. Contact Information

**Facility Name and Location:** Provide the facility name, address phone number, county and township, range, section and section quarter.

**Well Owner:** Provide the well owner's name, organization, address, phone number and email address.

Property Owner: Complete if different then the Well owner

**Technical Contact:** Provide the name, organization, address, telephone number and email address of the person to contact in case there are any questions about this registration.

## B. Protecting Water Resources

Examples of ground water protection areas;

- A well head 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.

## C. Table 1: Complete for all UIC wells

- Well ID: Provide your identification number for the well.
- Construction Date: Provide the approximate date the well was installed.
- Latitude and longitude: Enter the latitude and longitude in decimal form for each UIC well. Visit <http://ww4.doh.wa.gov/scripts/esrimap.dll?Name=geoview&Cmd=Map> and type the address in at the bottom of the screen. Locational information including latitude and longitude will be found in a table below the map.
- EPA well type: EPA well types are listed in the Table at bottom of page.
- Status: Active if the well is in use; unused if 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 – Drainfield; IT - Infiltration Trench with Perforated Pipe; O – Other (describe).
- Check whether the infiltration trench (IT) has been constructed in accordance to an Ecology approved manual at the time of construction. To be rule authorized the IT has to be constructed in accordance with approved Ecology stormwater manual at time of construction.
- Well depth: Provide the approximate well depth.
- Check if the UIC well is within 1000 feet of a surface water body, such as a lake, river, or stream.
- Check if the UIC well is within 100 feet of a drinking water well.

- Zoning: List the county zoning designation.
- Check the appropriate box if your UIC wells are located in a Ground Water Protection Area:

#### Examples of ground water protection areas

- A well head 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.

### **D. 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. Other pollutants will not be treated.

Additional information on Table 2 questions can be found in the document *Guidance for UIC Wells that Manage Stormwater*, and located at: <http://www.ecy.wa.gov/biblio/0510067.html>. 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 ID name or number: Enter your identification name or number you entered on Table 1.
- Check whether a five foot separation exists between the bottom 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 <http://apps.ecy.wa.gov/welllog/> 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 <http://apps.ecy.wa.gov/welllog/> 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.
- Pretreatment 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 pretreatment (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, <http://www.ecy.wa.gov/programs/wq/stormwater/tech.html> or the approved treatment BMP list found at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/TreatmentOpts-EandWwa.pdf>.

**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.

- List owners ID again

- Check off if the soils 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?
- 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). A summary of trench design requirements are also at <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/InfiltrationTrenchDesign-EastsideWestside.pdf>.

**TABLE 4 Infiltration trenches without soil considered as treatment (flow control) located in Western or Eastern WA** King County and WA DOT call UIC Coordinator.

- List owners ID again
- 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.

**TABLE 5 Infiltration trenches (with perforated pipe) with soils that are considered a treatment BMP located in Eastern WA and constructed after 2/3/2006**

- List owners ID again
- Check off if the soils 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?
- 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?
- Check off which approach was used to determine the long-term infiltration.

For more information contact:

Underground Injection Control

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Olympia, WA 98504-7600

Phone: (360) 407-6143

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<http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html>

*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.*