Underground Injection Control
Rule Authorized Storm Water Injection Requirements

Storm water injection is authorized by rule, and does not need a permit if **General**, **Basic**, and **Category** requirements are met.

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<tr>
<th>Type of Storm Water</th>
<th>What is Required?</th>
<th>When is it required?</th>
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</table>
| **General Requirements** 340-044-0018(1) | **Must be** an allowable injection not specifically prohibited by rule  
**Must submit** inventory and registration information  
**Must not impact groundwater** above background or MCLs  
**Available** for specific types of injection – listed, storm water, case-by-case | New Injection | Existing & Registered Injection |
| **Storm Water Basic Requirements** 340-044-0018(3)(a) | **Must submit certification** with inventory and registration information that:  
- No other waste is mixed with storm water  
- Storm water runoff is minimized  
- No other disposal option is appropriate  
- No domestic drinking water supply wells are present within 500 feet  
- No public drinking water supply wells are present within 500 feet or 2 year time-of-travel  
- No soil or groundwater contamination is present  
- Well is not deeper than 100 feet, does not discharge into groundwater or below highest seasonal groundwater level  
- Confinement barrier or filtration medium is present, or BMPs are used to prevent or treat storm water contamination  
- Design and operation prevents accidental or illicit disposal and temporary blocking is available | Applies before construction | Review for compliance |

SEE ADDITIONAL REQUIREMENTS FOR SPECIFIC CATEGORIES
<table>
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<th>Storm Water Categories</th>
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<th>New Injection</th>
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<tr>
<td><strong>Municipal</strong>&lt;br&gt;50 or more injection wells&lt;br&gt;340-044-0018(3)(b)</td>
<td><strong>Must submit</strong> with inventory and registration:&lt;br&gt;- Evaluation of impacts to groundwater&lt;br&gt;  - Volume, quality, geology, density, land use&lt;br&gt;  - Decommissioning plan for wells that don’t comply with basic requirements&lt;br&gt;  - Certification that storm water does not drain from hazardous substance use, handling, or storage areas or submit a permit application&lt;br&gt;<strong>Must prepare and implement</strong> a storm water management plan with these required elements:&lt;br&gt;- System assessment – well location, construction detail, land use, identification of areas with hazardous substance use&lt;br&gt;  - System controls&lt;br&gt;  - BMPs for source control and treatment&lt;br&gt;  - Prevent drainage from areas with hazardous substances&lt;br&gt;  - Spill prevention and response&lt;br&gt;  - Maintenance plan and schedule – visual inspection and physical maintenance&lt;br&gt;  - Employee and public education&lt;br&gt;  - Identify responsible personnel&lt;br&gt;- Monitoring plan&lt;br&gt;  - Identify representative locations for monitoring and sampling&lt;br&gt;  - Minimum sampling – 2 times in first year, then annually at on-set of wet weather conditions&lt;br&gt;  - Grab samples prior to injection&lt;br&gt;  - Sample analysis – Use analytical methods with detection limits below MCLs. Analyze for contaminants identified in system assessment plus BTEX, benzo(a)pyrene, Pb, Cr, Cd, total nitrogen, fecal coliform bacteria&lt;br&gt;- Record keeping plan&lt;br&gt;<strong>Must submit</strong> a summary report on storm water management plan implementation, monitoring, sampling, and assess effectiveness of BMPs&lt;br&gt;</td>
<td>Before construction&lt;br&gt;Not applicable&lt;br&gt;Before construction&lt;br&gt;Before construction</td>
<td>12/19/01&lt;br&gt;12/19/01&lt;br&gt;7/1/02&lt;br&gt;7/1/02</td>
<td></td>
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<tr>
<td><strong>Municipal</strong>&lt;br&gt;Fewer than 50 injection wells&lt;br&gt;340-044-0018(3)(c)</td>
<td><strong>Must submit</strong> with inventory and registration:&lt;br&gt;- Certification that storm water does not drain from hazardous substance use, handling, or storage areas or submit a permit application&lt;br&gt;<strong>Must prepare and implement</strong> a storm water management plan with these required elements:&lt;br&gt;- System assessment&lt;br&gt;- System controls – BMPs for source control and treatment&lt;br&gt;- Spill prevention and response&lt;br&gt;- Maintenance plan&lt;br&gt;- Employee and public education&lt;br&gt;- Evaluation of effectiveness of storm water management plan&lt;br&gt;</td>
<td>Before construction&lt;br&gt;Before construction&lt;br&gt;</td>
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When is it required?

### Storm Water Categories

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<td><strong>Industrial or Commercial Facility</strong></td>
<td>Before construction</td>
<td>3/19/02</td>
</tr>
<tr>
<td><strong>With Hazardous Substances 340-044-0018(3)(d)</strong></td>
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**Must submit** with inventory and registration:
- Certification that storm water is not exposed to industrial activities or hazardous substance use, handling, or storage areas. Include:
  - Site assessment – location and type of industrial activities, location of hazardous substances, location and description of all storm water discharges, methods to prevent exposure to industrial activities and hazardous substances
  - Sample analysis – representative grab sample analyzed for priority pollutants, total nitrogen, fecal coliform bacteria, and other potential contaminants
  - Site control measures and BMPs
  - List and date of all accidents, spills, or releases of hazardous substances
- **Must re-certify** every 5 years. May modify required sample analysis

**Must prepare and implement** a storm water management plan with these required elements:
- Site assessment – well location, construction detail, activities and use in areas exposed to storm water, identification and location of areas where hazardous substance used, handle, stored
- Site controls – BMPs for source control and treatment
  - Segregate areas with hazardous substance use from storm water run-off or run-on
  - Spill prevention and response
  - Maintenance plan and schedule – minimum monthly visual inspection and semi-annual physical maintenance
  - Employee education
  - Identify responsible personnel
- Monitoring plan
  - Identify locations for monitoring
  - Minimum sampling – 2 times in first year, then annually at on-set of wet weather conditions in first 30 minutes of discharge from storm > 0.1 inches after 72 hours dry weather
- Grab samples prior to injection
  - Sample analysis – Use analytical methods with detection limits below MCLs. Analyze for contaminants identified in site assessment and all contaminants detected in certification analysis
  - Use MCLs as reference levels
  - Review BMPs and implement corrective measures if reference levels exceeded
  - Record keeping and reporting plan – report results that exceed reference levels
## UIC Rule Authorized Storm Water Injection Additional Requirements by Category

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| **Industrial or Commercial Facility** | **No Hazardous Substances** | 340-044-0018(3)(e) | **Must submit** with inventory and registration:  
- Certification that hazardous substances not used, handled or stored at facility  
- **Must re-certify** every 5 years | **Before construction** | 12/19/01 |
| | **Must prepare and implement** a *storm water management plan* with these required elements:  
- Site assessment  
- Site controls – BMPs for source control and treatment  
- Spill prevention and response  
- Maintenance plan  
- Employee education  
Evaluation of effectiveness of storm water management plan | | **Before construction** | 3/19/02 |
| **Large Parking Lots** | **1000 trips per day** | **Industrial, commercial, municipal, residential** | 340-044-0018(3)(f) | **Must submit** with inventory and registration:  
- Certification that storm water is not exposed to industrial activities or areas where hazardous substance are used, handled, or stored  
- **Must re-certify** every 5 years | **Before construction** | 12/19/01 |
| | **Must prepare and implement** a *storm water management plan* with these required elements:  
- Site assessment – well location, construction details, evaluation of use and activities, evaluation of risk for accidental or illicit waste disposal  
- Site controls – BMPs for source controls and treatment  
  - Prevent drainage from areas with high risk for accidental or illicit disposal  
  - Spill prevention and response  
  - Maintenance plan and schedule – **minimum** monthly visual inspection and semi-annual physical maintenance  
  - Employee and public education  
  - Identify responsible personnel  
- Monitoring plan  
  - Identify locations for monitoring  
  - **Minimum sampling** – 2 times in first year, then annually at on-set of wet weather conditions in first 30 minutes of discharge from storm > 0.1 inches after 72 hours dry weather  
  - Grab samples prior to injection  
  - Sample analysis – Use analytical methods with detection limits below MCLs. Analyze for contaminants identified in site assessment plus BTEX, benzo(a)pyrene, Pb, Cr, Cd, total nitrogen, fecal coliform bacteria  
  - Use MCLs as reference levels  
  - Review BMPs and implement corrective measures if reference levels exceeded  
- Record keeping and reporting plan – report results that exceed reference levels | | **Before construction** | 3/19/02 |
# UIC Rule Authorized Storm Water Injection Additional Requirements by Category

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| **Small Parking Lots**                  | **Must submit** with inventory and registration:  
• Certification that storm water is not exposed to industrial activities or hazardous substance areas  
**Must prepare and implement** a *storm water management plan* with these required elements:  
• System assessment  
• System controls – BMPs for source control and treatment  
• Spill prevention and response  
• Maintenance plan  
• Employee and public education  
• Evaluation of effectiveness of storm water management plan | New Injection: Before construction  
Existing & Registered Injection: 12/19/01                                                   |
| **<1000 trips per day**                 | **Must submit** inventory and registration information and certify basic requirements are met  
**Use** designs that prevent storm water contamination and remove pollutants  
**Use** BMPs to prevent and/or treat storm water contamination including maintenance with monthly visual inspection and semi-annual maintenance | New Injection: Before construction  
Existing & Registered Injection: Required                                                    |
| **Industrial, commercial, municipal**   |                                                                                                                                                                                                                       |                                          |
| **340-044-0018(3)(g)**                 |                                                                                                                                                                                                                       |                                          |