



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.

Type of Storm Water	What is Required?	When is it required?	
		New Injection	Existing & Registered Injection
All rule authorized injection	<p style="text-align: center;">General Requirements 340-044-0018(1)</p> <p>Must be an allowable injection not specifically prohibited by rule Must submit inventory and registration information</p> <p>Must not impact groundwater above background or MCLs Available for specific types of injection – listed, storm water, case-by-case</p>		
All rule authorized storm water injection EXCEPT roof drains	<p style="text-align: center;">Storm Water Basic Requirements 340-044-0018(3)(a)</p> <p>Must submit certification with inventory and registration information that:</p> <ul style="list-style-type: none"> • 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, <u>or</u> BMPs are used to prevent or treat storm water contamination • Design and operation prevents accidental or illicit disposal and temporary blocking is available <p style="text-align: center;">SEE ADDITIONAL REQUIREMENTS FOR SPECIFIC CATEGORIES</p>	Applies before construction	Review for compliance

UIC Rule Authorized Storm Water Injection Additional Requirements by Category

Storm Water Categories	Additional Requirements	When is it required?	
		New Injection	Existing & Registered Injection
Municipal 50 or more injection wells 340-044-0018(3)(b)	<p>Must submit with inventory and registration:</p> <ul style="list-style-type: none"> • Evaluation of impacts to groundwater <ul style="list-style-type: none"> ➤ Volume, quality, geology, density, land use • Decommissioning plan for wells that don't comply with basic requirements • Certification that storm water does not drain from hazardous substance use, handling, or storage areas <u>or</u> submit a permit application <p>Must prepare and implement a <i>storm water management plan</i> with these required elements:</p> <ul style="list-style-type: none"> • System assessment – well location, construction detail, land use, identification of areas with hazardous substance use • System controls <ul style="list-style-type: none"> ➤ BMPs for source control and treatment ➤ Prevent drainage from areas with hazardous substances ➤ Spill prevention and response ➤ Maintenance plan and schedule – visual inspection and physical maintenance ➤ Employee and public education ➤ Identify responsible personnel • Monitoring plan <ul style="list-style-type: none"> ➤ Identify representative locations for monitoring and sampling ➤ <u>Minimum</u> sampling – 2 times in first year, then annually at on-set of wet weather conditions ➤ Grab samples prior to injection ➤ Sample analysis – Use analytical methods with detection limits below MCLs. Analyze for contaminants identified in system assessment <u>plus</u> BTEX, benzo(a)pyrene, Pb, Cr, Cd, total nitrogen, fecal coliform bacteria • Record keeping plan <p>Must submit a summary report on <i>storm water management plan</i> implementation, monitoring, sampling, and assess effectiveness of BMPs</p>	Before construction	12/19/01
		Not applicable	12/19/01
		Before construction	7/1/02
		Before construction	7/1/02
		6/30/04	6/30/04
Municipal Fewer than 50 injection wells 340-044-0018(3)(c)	<p>Must submit with inventory and registration:</p> <ul style="list-style-type: none"> • Certification that storm water does not drain from hazardous substance use, handling, or storage areas <u>or</u> submit a permit application <p>Must prepare and implement a <i>storm water management plan</i> with these required elements:</p> <ul style="list-style-type: none"> • 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 	Before construction	7/1/02
		Before construction	7/1/02

UIC Rule Authorized Storm Water Injection Additional Requirements by Category

Storm Water Categories	Additional Requirements	When is it required?	
		New Injection	Existing & Registered Injection
Industrial or Commercial Facility With Hazardous Substances 340-044-0018(3)(d)	<p>Must submit with inventory and registration:</p> <ul style="list-style-type: none"> • Certification that storm water is not exposed to industrial activities or hazardous substance use, handling, or storage areas. Include: <ul style="list-style-type: none"> ➤ 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 <p>Must prepare and implement a storm water management plan with these required elements:</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ➤ Segregate areas with hazardous substance use from storm water run-off or run-on ➤ Spill prevention and response ➤ Maintenance plan and schedule – <u>minimum</u> monthly visual inspection and semi-annual physical maintenance ➤ Employee education ➤ Identify responsible personnel • Monitoring plan <ul style="list-style-type: none"> ➤ Identify locations for monitoring ➤ <u>Minimum</u> 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 <ul style="list-style-type: none"> ➤ 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 	Before construction	3/19/02
		Before construction	3/19/02

