

Treated Municipal Wastewater Discharge to Land: (from permit shell)

S2.D. Ground water monitoring

Option 1: Use this option if you choose not to use Appendix A.

The Permittee must use the specified analytical methods unless the method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136. If the Permittee uses an alternative method, not specified in the permit and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

The Permittee must monitor the ground water at monitoring wells Insert well numbers according to the following schedule:

Parameter	Units & Speciation	Laboratory Method	Sampling Frequency	Sample Type
Ferrous Iron	Present /Absent	Qualitative Field Test		Field Measurement
Iron (Total)	mg/l	EPA 200.7	Grab	
Total Organic Carbon (TOC)	mg/l	SM 5310-B/C/D	Grab	
pH	Standard Units		Grab	
Conductivity	Micromho/cm	SM 2510 B (EPA 120.1)	Grab	
Total Coliform^a	<u>MPN/100 ml</u>	SM 9221 B (MPN)	Grab	
Total Coliform^a	<u>#Organisms /100 ml</u>	SM 9222 B (MF)	Grab	
Measured Depth to Ground Water	Feet (nearest 0.01 ft)			Field Measurement
Temperature	Degrees C			Field Measurement
Bicarbonate Alkalinity	mg/l as CaCO ₃	SM 2320-B	Grab	
Carbonate Alkalinity	mg/l as CaCO ₃	SM 2320-B	Grab	
Chloride	mg/l	SM 4110B		
Fluoride	mg/l	SM4500-F E		
Sulfate	mg/l	SM4110-B		
Total Dissolved Solids		SM2540 C		
Nitrate-Nitrite Nitrogen	mg/L as N			
Total Kjeldahl Nitrogen (TKN)	mg/L as N	SM 4500-N Org B/C		
Calcium	mg/l	EPA 200.7		
Potassium	mg/l	EPA 200.7		
Magnesium	mg/l	EPA 200.7		
Sodium	mg/l	EPA 200.7		
Manganese	mg/l	EPA 200.7		

a Report a numerical value for total coliforms following the procedures in Ecology's Information Manual for Wastewater Treatment Plant Operators, Publication Number 04-10-020 available at: <http://www.ecy.wa.gov/programs/wq/permits/guidance.html> . Do not report a result as too numerous to count (TNTC).

Reclaimed Water / Ground Water Recharge: (from Permit Shell)

R2.C. Ground water monitoring

The Permittee must monitor groundwater at monitoring wells Insert well numbers in accordance with the following schedule and the requirements specified in Appendix A.

Parameter	Units & Speciation	Sampling Frequency	Sample Type
Static well water elevation	feet above sea level	quarterly	field measurement
Temperature	degrees celsius	quarterly	field measurement
Dissolved oxygen	mg/l	quarterly	grab
pH	Standard Units	quarterly	field measurement
Conductivity	Micromho/cm	quarterly	grab
Total Coliform ^a	<u>MPN/100 ml</u>	quarterly	grab

Chloride	mg/l	quarterly	grab
Fluoride	mg/l	yearly	grab
Sulfate	mg/l	yearly	grab
Total Dissolved Solids	mg/L	quarterly	grab
Nitrate Nitrogen	mg/L as N	quarterly	grab
Nitrite Nitrogen	mg/L	quarterly	grab
Total Kjeldahl Nitrogen (TKN)	mg/L as N	quarterly	grab
Calcium	mg/l	yearly	grab
Potassium	mg/l	yearly	grab
Magnesium	mg/l	yearly	grab
Sodium	mg/l	yearly	grab
Bicarbonate	mg/l	yearly	grab
Carbonate	mg/l	yearly	grab
Arsenic	µg/L	yearly	grab
Cadmium	µg/L	yearly	grab
Chromium	µg/L	yearly	grab
Copper	µg/L	yearly	grab
Lead	µg/L	yearly	grab
Mercury	µg/L	yearly	grab
Nickel	µg/L	yearly	grab
Silver	µg/L	yearly	grab
Zinc	µg/L	yearly	grab
Total trihalomethanes (TTHM)	µg/L	quarterly	grab

a Report a numerical value for total coliforms following Chapter XI of the Permit Writer's Manual.

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