



STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE  
WATER PERMITTING & ENFORCEMENT DIVISION  
860-424-3018

## *Environmental Permitting Fact Sheet*

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### **General Permit for the Discharge of Groundwater Remediation Wastewater**

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#### **Permit Overview**

This general permit is issued under the authority of, and will be administered by, the Department of Environmental Protection's (DEP) Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance. DEP uses both individual and general permits to regulate discharge activities. Individual permits are issued directly to an applicant, whereas general permits are permits issued to authorize similar activities by one or more applicants throughout a prescribed geographic area. Authorization of an activity under a general permit is governed by that general permit. A general permit sets terms and conditions for conducting an activity that, when complied with, are protective of the environment. General permits are a quicker and more cost-effective way to permit specific activities for both the department and the registrant. The Groundwater Remediation Wastewater General Permit will only apply to discharges of groundwater remediation wastewaters (as defined therein), either discharged directly to Publicly Owned Treatment Works (POTWs) or hauled there.

"Groundwater Remediation Wastewater" means wastewater generated in connection with investigating pollution or remediating polluted groundwater or soil. Groundwater remediation wastewater includes without limitation groundwater withdrawn from a groundwater recovery well; groundwater which collects in an excavation or foundation drain or other subsurface facility or structure; groundwater contaminated runoff and stormwater impacted by on-site pollutants from any construction activity; condensate resulting from construction or maintenance of a soil vapor extraction system; washdown or backwash wastewater from treatment facilities; well development wastewater, and wastewater generated by removing an underground tank used at any time for storage of petroleum or petroleum products or by developing, testing, sampling, or purging a well, or by maintaining treatment facilities.

"Remediation" means the containment, removal, mitigation, or abatement of pollution, a potential source of pollution, or a substance which poses a risk to human health or the environment, and includes but is not limited to the reduction of pollution by natural attenuation.

<b>Authorizing Statutes</b>	Section 22a-430b of the Connecticut General Statutes (CGS), as amended by Public Act 91-263.																																								
<b>Regulations</b>	Sections 22a-430-1 through 22a-430-7 of the Regulations of Connecticut State Agencies (RCSA).																																								
<b>Who Must Comply?</b>	Any person who initiates, originates, creates, or maintains a discharge of groundwater remediation wastewater, as defined in this permit, and in accordance with Section 3 of this general permit, shall submit a completed registration and fee as specified in Section 3 of this general permit.																																								
<b>Required Documents</b>	<i>Permit Application Transmittal Form</i> (DEP-APP-001); <i>General Permit Registration Form for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer</i> (DEP-WD-REG-007).																																								
<b>Fees</b>	The registration fee of \$500.00, as established by RCSA Section 22a-430-6, shall be submitted with a completed registration form. As required by CGS Section 22a-6, municipalities shall submit a fee of \$250.00. As specified in RCSA Section 22a-430-6(l), the registration fee shall be waived for any building used solely as a single-family residence. The registration fee shall be paid by certified check or money order payable to the Department of Environmental Protection. The check shall state on its face, "Water Management Permit Fee."																																								
<b>Effluent Limits</b>	<p>The maximum daily flow of groundwater remediation wastewater shall not exceed 5% of the design capacity of the POTW receiving the discharge.</p> <p>The pH of the discharge shall not be less than 5.0 nor greater than 9.0 standard units at any time.</p> <p>In addition, the following effluent limitations shall not be exceeded at any time:</p> <table border="0"> <tr> <td>VOCs as detected by EPA Method 601</td> <td>1.0 mg/l</td> </tr> <tr> <td>Total VOCs</td> <td>5.0 mg/l</td> </tr> <tr> <td>Oil &amp; Grease - Hydrocarbon Fraction</td> <td>100 mg/l</td> </tr> <tr> <td>MTBE</td> <td>1.0 mg/l</td> </tr> <tr> <td>Total Lead</td> <td>0.1 mg/l</td> </tr> <tr> <td>Arsenic</td> <td>0.1 mg/l</td> </tr> <tr> <td>Barium</td> <td>5.0 mg/l</td> </tr> <tr> <td>Beryllium</td> <td>2.0 mg/l</td> </tr> <tr> <td>Boron</td> <td>5.0 mg/l</td> </tr> <tr> <td>Cadmium</td> <td>0.1 mg/l</td> </tr> <tr> <td>Chromium (total)</td> <td>1.0 mg/l</td> </tr> <tr> <td>Chromium (hexavalent)</td> <td>0.1 mg/l</td> </tr> <tr> <td>Cobalt</td> <td>2.0 mg/l</td> </tr> <tr> <td>Copper</td> <td>1.0 mg/l</td> </tr> <tr> <td>Magnesium</td> <td>50 mg/l</td> </tr> <tr> <td>Mercury</td> <td>0.005 mg/l</td> </tr> <tr> <td>Nickel</td> <td>1.0 mg/l</td> </tr> <tr> <td>Selenium</td> <td>1.0 mg/l</td> </tr> <tr> <td>Silver</td> <td>0.1 mg/l</td> </tr> <tr> <td>Thallium</td> <td>1.0 mg/l</td> </tr> </table>	VOCs as detected by EPA Method 601	1.0 mg/l	Total VOCs	5.0 mg/l	Oil & Grease - Hydrocarbon Fraction	100 mg/l	MTBE	1.0 mg/l	Total Lead	0.1 mg/l	Arsenic	0.1 mg/l	Barium	5.0 mg/l	Beryllium	2.0 mg/l	Boron	5.0 mg/l	Cadmium	0.1 mg/l	Chromium (total)	1.0 mg/l	Chromium (hexavalent)	0.1 mg/l	Cobalt	2.0 mg/l	Copper	1.0 mg/l	Magnesium	50 mg/l	Mercury	0.005 mg/l	Nickel	1.0 mg/l	Selenium	1.0 mg/l	Silver	0.1 mg/l	Thallium	1.0 mg/l
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**Effluent Limits (cont.)**

Tin	2.0 mg/l
Vanadium	1.0 mg/l
Zinc	1.0 mg/l
Total Cyanide	0.6 mg/l
Amenable Cyanide	0.1 mg/l
Phenols	1.0 mg/l
Phthalate Esters	2.0 mg/l
Polynuclear Aromatic Hydrocarbons (PAHs)	0.5 mg/l
Base Neutral/Acid Extractables (BNAs) (Excluding PAHs)	1.0 mg/l

***Pesticides***

Aldrin	1.5 µg/l
alpha-BHC	1.0 µg/l
beta-BHC	1.0 µg/l
delta-BHC	1.0 µg/l
gamma-BHC (Lindane)	2.0 µg/l
Chlordane (technical)	20 µg/l
4,4' - DDD	0.2 µg/l
4,4' - DDE	0.2 µg/l
4,4' - DDT	0.2 µg/l
Dieldrin	10 µg/l
Endosulfan I	2.0 µg/l
Endosulfan II	2.0 µg/l
Endosulfan Sulfate	2.0 µg/l
Endrin	1.0 µg/l
Endrin aldehyde	1.0 µg/l
Heptachlor	0.6 µg/l
Heptachlor epoxide	0.4 µg/l
Methoxychlor	360 µg/l
Toxaphene	10 µg/l

***Chlorinated Herbicides***

2,4 D plus 2,4 DB	700 µg/l
2,4,5 T	10 µg/l
2,4,5 TP (Silvex)	10 µg/l
Dicamba	10 µg/l

***PCBs***

PCB - 1016	Sum of all detected PCBs shall not exceed 1.0 µg/l.
PCB - 1221	
PCB - 1232	
PCB - 1242	
PCB - 1248	
PCB - 1254	
PCB - 1260	

Other PCBs if present must be analyzed and included in the sum.

## Sampling

Prior to initiation of the discharge, the water to be discharged must be sampled in its raw state for: Total Volatile Organics plus the five most prevalent tentatively identified compounds); Oil and Grease Hydrocarbon Fraction or Total Petroleum Hydrocarbons; Oxygenates; Total Lead; and any pollutant either listed in Appendix B, Tables I, II, III, IV and V, or Appendix D of RCSA Section 22a-430-4; or any pollutant that may be toxic, hazardous, detrimental to POTW operations, pass through the POTW, or be detrimental to sludge handling operations has been used, stored, released, or disposed of on-site.

Discharge monitoring shall be conducted for:

VOCs;

Total Petroleum Hydrocarbons (If any analysis indicates concentrations in excess of listed limitations, an oily sheen is present, or the source of contamination is petroleum oil);

Total Lead (If any analysis indicates concentrations in excess of listed limitations, the site is or has been used for vehicle maintenance, or the source of contamination is gasoline); and

Any compound detected during screening analysis in concentrations that exceed municipal POTW limits or the limitations listed in this general permit.

Discharge monitoring frequency shall be monthly for discharges exceeding 5000 gallons per day and quarterly for those discharges of less than 5000 gallons per day.

Supplemental screening analysis shall be conducted semiannually for discharges exceeding 5000 gallons per day and annually for those of less than 5000 gallons per day.

Routine visual inspections shall be required weekly, or monthly if the site is unmanned with a flow of less than 14,400 gallons per day.

## Treatment

Treatment shall be required for any parameter that exceeds the limitations listed in this general permit. Treatment shall employ Best Available Technology and Professional Judgement.

Treatment for VOCs shall employ either air stripping or activated carbon.

Treatment for Oil and Grease shall employ either gravity separation, oil adsorbents, filtration, or any combination of the above technologies necessary.

Treatment for any other pollutant shall be designed to sufficiently treat the discharge utilizing best engineering judgement and best available technology.

## Other Conditions

Written approval from the receiving POTW as required in Part IV of the Registration Form required for coverage under this general permit.

The registrant and other associated parties, as applicable, must certify that the discharge will meet the effluent limits in the general permit, and if there is a wastewater treatment system, that the system is designed to meet those limits.

Analysis conducted to verify compliance with this general permit must be performed using methods approved in Title 40, Part 136 of the Code of Federal Regulations (40CFR136).

## Permit Duration

The General Permit for the Discharge of Groundwater Remediation Wastewater will be valid for a period of ten years from the date of issuance. To renew a permit, the permittee must submit a new registration form and fee prior to the permit expiration date.

## Modifications

A permittee must submit a revised *General Permit Registration Form for the Discharge of Groundwater Remediation Wastewater* (DEP-WD-REG-007) if the facility or process modification would render existing information on a registration which has been previously filed with the Department inaccurately.

## Transfer

A general permit or registration may not be transferred.

## Contact Address

WATER PERMITTING AND ENFORCEMENT DIVISION  
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE  
ASSURANCE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127  
860-424-3018

This overview is designed to answer general questions and provide basic information. You should refer to the appropriate statutes and regulations for the specific regulatory language of the different permit programs. This document should not be relied upon to determine whether or not an environmental permit is required. It is *your* responsibility to obtain and comply with all required permits.