

**OFFICE OF ADJUDICATIONS**

**IN THE MATTER OF**

**: GENERAL PERMITS  
WD-GP-003, WD-GP-007**

**1) DISCHARGE OF MINOR PRINTING  
AND PUBLISHING WASTEWATER**

**2) DISCHARGE OF GROUNDWATER REMEDIATION  
WASTEWATER TO A SANITARY SEWER**

**: NOVEMBER 19, 2007**

**PROPOSED FINAL DECISION**

***I  
SUMMARY***

The Department of Environmental Protection (DEP) intends to reissue the two general permits referenced above pursuant to General Statutes §22a-430b. The first permit will continue the authorization for discharges of minor printing and publishing wastewater for ten years from the date of re-issuance. The second permit, which will also expire ten years from the date of its re-issuance, will maintain authority for discharges presently allowed under the general permit; this re-issuance addresses inconsistencies in previous monitoring requirements and issues relating to changes in analytical methodologies.

In response to comments made at a September 24, 2007 hearing and other written comments received before and after the hearing, DEP staff has modified the draft general permits. I have reviewed these proposed modifications, the applicable law, and the record, including staff's post-hearing memorandum. I find that the proposed general permits would authorize discharges that are appropriately controlled under a general permit. §22a-430b. I also find nothing in the record or the law that would recommend or require professional engineers licensed in Connecticut to be the only third parties certifying compliance with the general permits under the circumstances outlined in those permits. I therefore conclude that the proposed general permits should be issued as modified.

## *II*

### *DECISION*

#### *A*

### *FINDINGS OF FACT*

#### *1*

### *Procedural History*

1. On February 20, 2007, the DEP issued a notice of its intent to re-issue two general permits, one for the discharge of minor printing and publishing wastewater (Printing and Publishing GP) and the second for the discharge of groundwater remediation wastewater to a sanitary sewer (Groundwater Remediation GP). A petition for hearing was filed by representatives of the Connecticut Society of Professional Engineers (CSPE). (Exs. DEP -1, 2, 3, 4; ex. Hearing Officer (HO) - 1.)

2. A hearing was held on September 24, 2007, during which staff from the DEP Water Permitting and Enforcement Division (WPED), Bureau of Materials Management and Compliance Assurance provided an overview of the proposed permits. Members of the CSPE and the Connecticut Chapter of the Academy of Certified Hazardous Materials Managers spoke at the hearing, as did representatives from Hart Industries and Printing Industries of New England. Written comments were received before and after the hearing from all of the organizations or industries represented at the hearing, as well as from the Institute of Hazardous Management, Fuss & O'Neill, and the Greater New Haven Water Pollution Control Authority. Individual commenters also submitted written comments and letters of support.<sup>1</sup>

3. On November 5, 2007, staff filed the final draft versions of the GPs incorporating comments received during this hearing process. Staff also filed an accompanying memorandum explaining the modifications made in response to comments. (Attachments A and B; ex. HO-2.)

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<sup>1</sup> All documents pertaining to the procedural history of this proceeding are contained in the docket file maintained by the Office of Adjudications and are part of the administrative record in this matter. General Statutes §4-177(d).

***The Proposed General Permits***

***A***

***Minor Printing and Publishing Wastewater***

4. This GP authorizes defined discharges of minor printing and publishing wastewater to a publicly owned treatment works (POTW) as defined in §22a-430-3(a) of the Regulations of Connecticut State Agencies.<sup>2</sup> The GP sets out treatment and control requirements, best management practices and other conditions, such as effluent limitations and reporting requirements. (Attachment A, Sections 3, 5.)

5. Comments were received at the public hearing and in follow up letters<sup>3</sup> regarding issues such as computer to plate wastewater and the need for this wastewater to have special requirements in the GP. The following modifications respond to those comments.

Section 2. Definitions.

Definitions for computer-to-plate (CTP) and direct-to-plate (DTP) printing processes and CTP wastewater were added to delineate this new printing process and its wastewater.

Section 3. Authorization Under This Permit

A requirement was added at Section (3)(b)(9) that a discharge will not be authorized unless “the POTW authority receiving the discharge has approved in writing on a form provided by the commissioner.”<sup>4</sup>

Section 4. Registration Requirements

Language was added at Section 4(a)(3) to clarify that a new registration must be applied for at least 30 days before an ownership transfer.<sup>5</sup>

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<sup>2</sup> “POTW” means a system used for the collection, treatment and/or disposal of sewage from more than one lot as defined in 22a-430-1 of the Regulations of Connecticut State Agencies and which discharges to the waters of the state and which is owned by a municipality or the state. §22a-430-3(a).

<sup>3</sup> From Mark Flannery, Director, Environmental Affairs, Printing Industries of New England and Steve Mancuso, President, Hart Industries.

<sup>4</sup> Pursuant to a comment received in a March 16, 2007 memo from Gary Zrelak, Director of Operations, New Haven Sewage Treatment Plant. (Ex. DEP-14.)

<sup>5</sup> A license or permit must be transferred to a new owner prior to the transfer of ownership. General Statutes §22a-60; Regs., Conn. State Agencies §22a-430-1, et. seq.

Section 4(c)(1)(A) provides registration fee discounts for registrants with low flow discharges. Because all WPED general permits use “maximum flow” as the determinant of low flow, the language has been modified to “maximum flow of less than 40 gallons per day”.

Section 4(c)(2)(E) has been modified to require a more detailed description of the various types and flows of the printing and publishing wastewater being discharged.

Section 4(c)(2)(I) mandates the written approval of the POTW authority receiving the discharge. Language was removed from the certification at section 4(c)(2)(J) regarding photo processing wastewater and silver recovery system performance rates that aligns the certification with other changes made to the permit.

#### Section 5. Conditions of This General Permit

Section 5(a)(1) was modified to clarify that certain small quantity generators of hazardous wastes can transport their own wastes under certain conditions.<sup>6</sup>

Section 5(a)(3)(B) was modified to ensure that metallic replacement cartridges used for silver recovery are used properly to maximize silver removal.

Language was added addressing CTP wastewater and its pH characteristics at sections 5(a)(2), 5(a)(4), 5(a)(5), 5(a)(7), 5(a)(9), 5(b)(1) and 5(c)(1)(B). The current pH requirement in this GP was not changed with this revision, but the modification clarifies that CTP wastewater must receive a pH adjustment if its pH is outside the acceptable discharging rate. Section 5(c)(1)(B) was added to define specific monitoring requirements for CTP wastewater.

Former sections 5(a)(3)(B), 5(a)(3)(C) and 5(a)(D) were removed because their silver removal performance requirements were outdated and not very stringent. The silver effluent limitations delineated in section 5(b)(3)(B) are sufficient. Section 5(c)(3)(C) was removed because this monitoring had been aimed specifically at the performance requirements of section 5(a)(3) that were deleted.

Where the term “photo-processing” was used in conjunction with “silver-rich”, it has been either removed or replaced by “silver-rich” to clarify that the domain of silver-rich wastewater subject to this GP is not limited to just photo-processing wastewater, but all types of wastewater.

(Ex. HO-2.)

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<sup>6</sup> Pursuant to a comment received in a March 30, 2007 letter from Chris Ecsedy and Adam Barbash of Fuss & O’Neil. (Ex. DEP-16.)

**B**  
***Groundwater Remediation Wastewater***

6. This GP authorizes groundwater remediation wastewater discharges subject to certain requirements. Initial screening for the water to be discharged is required, as are subsequent screening analyses. The GP outlines monitoring and treatment requirements for the discharges, requires best management practices to prevent pollution, specifies effluent limitations, and includes reporting requirements. (Attachment B, Sections 3, 4, 6.)

7. Comments received before the hearing from the Director of Operations at the New Haven Sewage Plant resulted in the following minor changes to the final draft of this GP. (Ex. DEP-14.)

Section 2. Definitions

Slightly modifies the definition of “POTW Authority” to keep it consistent with the definitions in the Printing and Publishing GP and the GP for the Discharge of Food Processing Wastewater.

Section 5. Registration Requirements

Section 5(c)(2)(R) was added to require that the POTW Authority approval be on a form provided by the Commissioner; this modification will mean this approval will be part of the registration package submitted to the Commissioner.

(Ex. HO-2.)

**C**  
***Certifications***

8. Both GPs require certifications in two instances to confirm compliance with the GP. A certification must be filed with the registration form that attests that proper operation and maintenance of any system installed to treat the subject discharges will ensure that all effluent limitations are met. A second certification must be filed in the event of a violation to endorse actions taken to prevent future violations of the GP. (Attachment A, Printing and Publishing GP, §§4(c)(2)(J) and 5(e)(2); Attachment B, Groundwater Remediation GP, §§5(c)(2)(s) and 6(e)(3).)

9. The proposed Printing and Publishing GP provides that a certified hazardous materials manager (CHMM), a professional engineer (PE) or certain others<sup>7</sup> may sign the registration certification statement and allows a CHMM or a PE to file a certification in the event of a violation. The Groundwater Remediation GP allows a CHMM, a PE or a licensed environmental professional (LEP) to submit both certifications.

## ***B***

### ***CONCLUSIONS OF LAW***

The Commissioner may issue a general permit for a category or categories of discharges regulated pursuant to §22a-430 of the General Statutes, except for a discharge covered by an individual permit. The general permit may regulate, within a geographical area, a category or categories of discharges that involve the same or substantially the same effluent limitations, operating conditions or standards, and require the same or similar monitoring and which, in the opinion of the commissioner, are more appropriately controlled under a general permit.<sup>8</sup> The general permit may require that any person or municipality initiating, creating, originating or maintaining any discharge under a general permit register the discharge with the commissioner before the general permit becomes effective. §22a-430b(a).

Prior to issuance, the Commissioner is required to publish notice of intent to issue the general permit, allow a thirty-day comment period, and must hold a hearing on the general permit upon receipt of a petition signed by at least twenty-five persons. §22a-430b(b). The Commissioner has complied with all procedural requirements for notice and hearing and with receipt of public comments applicable to the issuance of a general permit.

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<sup>7</sup> Silver recovery equipment manufacturers or vendors or a silver or photo processing trade association may also sign a registration certification. Section 4(c)(J).

<sup>8</sup> General permits may also be issued for a category of discharges not requiring a permit under the federal Water Pollution Control Act.

The remaining question in this matter is whether only a licensed PE<sup>9</sup> should perform the third party certifications required in the GPs or whether, as proposed in the draft GPs, that role should be expanded to others such as a CHMM or an LEP. Proponents of limiting certification to a PE argue that certification constitutes the practice of engineering and therefore can only be signed and sealed by a licensed PE. They maintain that the certification involves the review of the overall design of the treatment works, a task reserved for professional engineers who have been trained in this discipline. Advocates of expanding certification to other professionals counter that the certifications verify that proper operation and maintenance of a pre-engineered system will meet permit conditions and certify that discharges generated at a certain site will comply with effluent limitations. This is not, they argue, the certification of an engineering design and is therefore not the practice of engineering. Citing their training and expertise, they maintain that qualified environmental professionals such as a CHMM or an LEP are capable of performing this review and making the required certification.

The certifications in both GPs do not require judgments exclusive to the specific expertise and services of a PE. Signing a statement that asserts it is the professional judgment of the certifying party that the treatment system, or appropriate modifications and additions to that system, will treat the subject discharges to comply with the conditions of the GP is not an assurance that only a professional engineer can or should make. This determination is not an “evaluation, planning and design” of a treatment system, the practice of engineering defined in §20-299(1) of the General Statutes. Indeed, as noted by DEP staff in its memorandum submitted to outline its proposed modifications, expanding the certifications to persons such as a CHMM or an LEP will improve the process, as these professionals bring their training, perspectives, experience and professional ethics to the task of assuring that the subject discharges do not pollute the waters of the state.

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<sup>9</sup> As relevant to this issue, General Statutes §20-299(1) defines a professional engineer as a person who is qualified, by reason of his/her education and experience, to engage in engineering practice, which includes the evaluation, planning and design of construction in connection with any public or privately-owned equipment, processes or works in which the public welfare or the safeguarding of public health or property is concerned or involved.

***III***

***CONCLUSION***

The terms and conditions of the proposed general permits are consistent with the statutory requirements for their issuance and would authorize discharges that are appropriately controlled under a general permit. §22a-430b. I concur with staff's proposed modifications and adopt them as part of my proposed decision and recommendation. The activities to be certified in the GPs do not involve judgments exclusively reserved to professional engineers. §20-299(1). I therefore affirm the provisions of the general permits that allow other professionals, such as certified hazardous waste managers and licensed environmental professionals, to submit the certifications.

***IV***

***RECOMMENDATION***

The Commissioner should issue the modified proposed General Permit for the Discharge of Minor Printing and Publishing Wastewater and the proposed General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer.

    /s/ Janice B. Deshais  
Janice B. Deshais  
Hearing Officer



*P A R T Y L I S T*

Proposed Final Decision concerning  
General Permits for Discharge of Minor Printing and Publishing Wastewater and  
Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer  
Permit Nos. DEP-WD-GP-003, DEP-WD-GP-007

PARTY

REPRESENTED BY

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

# **General Permit for the Discharge of Minor Printing and Publishing Wastewater**



**Issuance Date: May 24, 1995**  
**Reissuance Date: *Month DD, 2007***

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# General Permit for the Discharge of Minor Printing and Publishing Wastewater

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# General Permit for the Discharge of

## Minor Printing and Publishing Wastewater

### Section 1. Authority

This general permit is issued under the authority of Section 22a-430b of the General Statutes.

### Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in Section 22a-423 of the General Statutes and Section 22a-430-3(a) and Section 19-13-B102(a) of the Regulations of Connecticut State Agencies. If any term has multiple definitions in such statutes and regulations, the definitions in Section 22a-423 of the General Statutes, and Section 22a-430-3(a) of the Regulations of Connecticut State Agencies shall apply. In addition, the following definitions shall apply:

*“Authorized activity”* means any activity authorized by this general permit.

*“Commissioner”* means commissioner as defined by Section 22a-423 of the General Statutes.

*“Computer-to-Plate”* or *“Direct-to-Plate”* or *“CTP”* or *“DTP”* means a printing prepress process in which a digital image is transmitted directly from a computer to a plate used on a printing press without requiring film as an intermediate step.

*“CTP processing wastewater”* means wastewater generated by the processing of CTP or DTP digital plates.

*“Day”* means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

*“Department”* means the Department of Environmental Protection.

*“Gravure cylinder preparation”* means the pre-press preparation of cylinders or wrap-around metallic plates for use in gravure printing, including but not limited to etching of cylinders, and the copper and chrome electroplating of cylinders.

*“Individual permit”* means a permit issued to a named permittee under Section 22a-430 of the General Statutes.

*“Metallic plate making”* means the creation of an image on a printing plate using etching, engraving, casting, or electroplating.

*“Minor printing and publishing wastewater”* means wastewater generated by letterpress, flexography, screen, digital and/or lithography printing, including but not limited to: photo processing; CTP processing; nonmetallic plate making; and printing operations with water-based and non-water based inks, water-based coatings, and adhesives; but does not include wastewater generated by gravure cylinder preparation, metallic plate making, gravure

printing, chromate bleach or dichromate based etch solutions, or solutions containing cyanide.

*“Municipality”* means a municipality as defined by Section 22a-423 of the General Statutes.

*“Nonmetallic plate making”* means the developing of a photographic image on light sensitive coatings on printing plates or screens.

*“Permittee”* means any person who or municipality which initiates, creates, originates or maintains a discharge in accordance with Section 3 of this general permit.

*“Person”* means person as defined by Section 22a-423 of the General Statutes.

*“Photo processing wastewater”* means wastewater generated by the processing of film transparencies and photographic paper used on or as templates for images on printing plates.

*“POTW”* means a publicly owned treatment works as that term is defined by Section 22a-430-3(a) of the Regulations of Connecticut State Agencies.

*“POTW authority”* means the chairperson, or duly authorized representative, of the Water Pollution Control Authority which owns or operates a Publicly Owned Treatment Works (POTW).

*“Registrant”* means a person who or municipality which files a registration in accordance with Section 4 of this general permit.

*“Registration”* means a completed registration form and registration fee filed with the commissioner pursuant to Section 4 of this general permit.

*“Site”* means geographically contiguous land on which an authorized activity takes place under this general permit. Non-contiguous land owned by the same person and connected by a right-of-way which such person controls and to which the public does not have access shall be deemed the same site.

*“Silver-rich wastewaters”* means those undiluted wastewaters containing more than 5 mg/l of silver, including but not limited to used fixers and bleach-fix wastewaters, low flow washes that follow fixers, stabilizers from washless minilab film and paper processes, and developers and rinsewaters from CTP systems.

### **Section 3. Authorization Under This General Permit**

#### **(a) Eligible Activities**

Provided the requirements of subsection (b) of this section are satisfied, this general permit authorizes discharges to a POTW, comprised solely of Minor Printing and Publishing Wastewater, as defined in this general permit.

Any discharge of water, substance or material into the waters of the state other than the one specified in this section is not authorized by this general permit, and any person who or municipality which initiates, creates, originates or maintains such a discharge must first apply for and obtain authorization under Section 22a-430 of the General Statutes.

**(b) Requirements for Authorization**

This general permit authorizes the activity listed in subsection (a) of this section provided:

(1) Registration

Except as provided in Section 4(a) of this general permit, a completed registration with respect to such activity has been filed with the commissioner.

(2) Coastal Area Management

Such activity is consistent with all-applicable goals and policies in Section 22a-92 of the General Statutes, and will not cause adverse impacts to coastal resources as defined in Section 22a-93 of the General Statutes.

(3) Endangered and Threatened Species

Such activity does not threaten the continued existence of any species listed pursuant to Section 26-306 of the General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat essential to such species.

(4) The discharge is *not* authorized by a valid individual permit issued under Section 22a-430 of the General Statutes.

(5) All discharges of Minor Printing and Publishing Wastewater are discharged to a publicly owned treatment works ("POTW") either directly by piping through a sanitary sewer or indirectly by means of a properly licensed transporter.

(6) The maximum daily flow of all discharges of Minor Printing and Publishing Wastewaters, other than photo processing and CTP wastewater, does not exceed 1,000 gallons per day from a site.

(7) The maximum daily flow of all discharges of photo processing and CTP wastewater generated on one site does not exceed 5,000 gallons per day, or one percent of the design capacity of the POTW which receives the discharge, whichever is less, and includes no more than 250 gallons per week of treated silver-rich wastewater.

(8) Such discharge is not subject to any provision of 40 CFR Part 403.6 National Pretreatment Standards: Categorical Standards for which a regulation containing pollutant discharge limits has been promulgated.

- (9) The POTW Authority receiving the discharge has approved the discharge in writing on a form provided by the commissioner.

**(c) *Geographic Area***

This general permit applies throughout the State of Connecticut.

**(d) *Effective Date and Expiration Date***

This permit is effective on the date it is issued by the commissioner and expires ten (10) years from such date of issuance.

**(e) *Effective Date of Authorization***

- (1) For a person or municipality *not* required to register under Section 4 of this general permit, an activity is authorized by this general permit on the date the general permit becomes effective or on the date the activity is initiated, whichever is later.
- (2) For a person or municipality required to register under Section 4 of this general permit, an activity is authorized by this general permit on the date the commissioner receives a completed registration with respect to such activity.

**(f) *Revocation of an Individual Permit***

If an activity meets the requirements of authorization of this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity by this general permit.

**(g) *Issuance of an Individual Permit***

If after the commissioner approves a registration under this general permit he issues an individual permit authorizing the same activity authorized by such approval, such approval shall become null and void on the date such individual permit is issued.

## **Section 4. Registration Requirements**

**(a) *Who Must File a Registration***

- (1) Any person who or municipality which initiates, creates, originates or maintains a discharge of Minor Printing and Publishing Wastewater as defined in this general permit and in accordance with Section 3 of this general permit with the exception of those discharges specified in this section, shall submit a completed registration form and fee before such discharge is initiated. If the source or activity generating the discharge for which a registration is submitted under this general permit is owned by one person or municipality but is leased or the legal responsibility of another person or municipality (the operator), the operator

shall submit the registration required by this general permit.

- (2) Any person who or municipality which has previously registered under the *General Permit for the Discharge of Minor Printing and Publishing Wastewater* issued by the commissioner on May 24, 1995 and modified on December 8, 1995 shall file a renewal registration on or before 60 days following the reissuance of this general permit, except for facilities who have submitted a registration after January 1, 2006. Any person or municipality who have submitted a registration after January 1, 2006 need not file a new registration, re-register, or pay any additional permitting fee. Such facility may continue to operate under the terms and conditions of this general permit.
- (3) Any person who or municipality which will be the new owner or operator of a site or business registered under this general permit shall file a renewal registration on or before 30 days before the closing date of the site or business ownership transfer.

**(b) Scope of Registration**

A registration shall only include discharges of Minor Printing and Publishing Wastewater from a single site. All discharges of Minor Printing and Publishing Wastewater occurring at a particular time for a single site shall be included in the same registration.

**(c) Contents of Registration**

(1) Fees

(A) The registration fee of \$500.00 for any person and \$250.00 for any municipality shall be submitted with a completed registration form. For those facilities with a total maximum flow of less than 40 gallons per day of minor printing and publishing wastewater, photo processing wastewater, and CTP wastewater combined, the fee shall be \$100.00 for any person and \$50.00 for any municipality. A registration shall not be deemed complete and no activity shall be authorized by this general permit unless the registration fee has been paid in full.

(B) The registration fee shall be paid by check or money order payable to the **Department of Environmental Protection**. The check shall state on its face, "Water Management Permit Fee".

(C) The registration fee is nonrefundable.

(2) Registration Form: A registration shall be submitted on a form prescribed by the commissioner and shall include, without limitation, the following:

(A) Legal name, address, and telephone number of the registrant. If the



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registrant is an entity transacting business in Connecticut, provide the exact name as registered with the Connecticut Secretary of the State.

- (B) Legal name, address, and telephone number of the owner of the property on which the discharge is proposed to be located.
- (C) Legal name, address, and telephone number of the registrant's attorney or other representative, if applicable to this registration.
- (D) Location address of the site of the discharge(s) for which the registration is submitted.
- (E) A detailed description of the activity for which the registration is being submitted and estimates of the daily flows of various minor printing and publishing wastewaters to be discharged such as fountain solution, waste developer, CTP processing wastewater, rinse water, flush water, etc.
- (F) A brief description of any wastewater treatment system or Best Management Practices (BMP's) proposed to be implemented by the registrant to minimize any adverse environmental effects of activities authorized by this general permit.
- (G) The maximum daily flow of all Minor Printing and Publishing Wastewater discharges, in gallons per day, to be discharged at the site.
- (H) An estimate of when the discharge began or will begin.
- (I) On a form prescribed and provided by the Commissioner, an approval by the POTW Authority for connection to the POTW receiving the discharge.
- (J) The following certification, for any facility discharging treated silver rich wastewater, signed by a silver recovery equipment manufacturer or vender, silver or photo processing trade association, certified hazardous materials manager, professional engineer licensed to practice in Connecticut, registered environmental professional or registered environmental manager listed with the National Registry of Environmental Professionals:

"I certify that in my professional judgment the proper operation and maintenance of any treatment system, including any silver recovery system, installed to treat photo processing and CTP wastewater will ensure that all silver effluent limitations specified in Section 5(b) of the *General Permit For The Discharge Of Minor Printing and Publishing Wastewater* issued on **month dd, 2007** are met. This certification is based on my review of engineering reports and/or plans and specifications describing (1) the proposed activities and (2) the proposed treatment

system for the wastewaters to be discharged. This certification is also based on any available wastewater sampling data associated with this discharge. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

- (K) Any person who or municipality which submits a registration under this general permit shall sign the registration and shall make the following certification:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

"I certify under penalty of law that I have read and understand all conditions of the *General Permit For the Discharge of Minor Printing and Publishing Wastewater* issued on *month dd, 2007*, that all requirements for authorization under this general permit are met for all discharges which are the subject of this registration, and all terms and conditions of this general permit are being met for all discharges which have been initiated and are the subject of this registration. This document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted."

**(d) *Where to File a Registration and Other Related Documents***

- (1) A registration shall be submitted to the following address:

CENTRAL PERMIT PROCESSING UNIT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD CT 06106-5127

- (2) For any discharge of wastewater to a POTW, a copy of the completed registration form shall also be sent to the POTW Authority which receives or will receive the discharge.

**(e) Additional Information**

The commissioner may require a registrant to submit additional information, which the commissioner reasonably deems necessary to evaluate the consistency of the subject activity with the requirements for authorization under this general permit.

**(f) Action by Commissioner**

- (1) The commissioner may reject without prejudice a registration if he determines that it does not satisfy the requirements of Section 4(c) of this general permit or more than thirty days have elapsed since the commissioner requested that the registrant submit additional information or the required fee and the registrant has not submitted such information or fee. Any registration refiled after such a rejection shall be accompanied by the fee specified in Section 4(c)(1) of this general permit.
- (2) The commissioner may disapprove a registration if he finds that the subject activity is inconsistent with the requirements for authorization under Section 3 of this general permit, or for any other reason provided by law.
- (3) Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject activity may not lawfully be conducted or maintained without the issuance of an individual permit.
- (4) Rejection or disapproval of a registration shall be in writing.

**Section 5. Conditions of This General Permit**

**(a) Treatment and Control Requirements, BMPs, and Other Special Conditions**

The permittee shall comply with the following conditions:

- (1) Waste inks and waste printing press cleaning solvents shall not be discharged but shall either be treated and recycled or disposed of in accordance with applicable federal, state and local law.
- (2) Signs in English and other languages necessary to communicate to all employees shall be posted at sinks and drains in areas where printing and publishing take place reading: "Do Not Pour any inks, cleaning solvents, untreated computer-to-plate waste developer, or untreated silver bearing wastes down any sink and/or drain."
- (3) Silver-Rich Wastewater
  - (A) All silver-rich wastewaters shall be treated using a silver recovery treatment system, or shall be collected and disposed of by a waste transporter permitted for that purpose under the Connecticut General Statutes.

- (B) If metallic replacement cartridges are used for silver recovery, at least two must be used in series preceded by a metering device to allow for adequate dwell time. If the silver recovery system is used in a closed-loop system and batch dumped, only one is required.
  - (C) Silver recovery treatment systems shall be inspected at least weekly to ensure proper operation of such system.
- (4) CTP Wastewater
  - (A) Silver-based CTP systems must meet the requirement in Section (5)(a)(3) of this general permit.
  - (B) Any CTP wastewater discharge that does not meet the requirement of Section (5)(b)(2) must adjust pH to meet that requirement prior to discharge.
- (5) Minor Printing and Publishing Wastewater, other than silver-rich wastewater and high pH CTP wastewater, including but not limited to waste developers, bleach without fixer, stop bath solutions without fixer, final stage stabilizers following a rinse stage, fountain solutions, screen reclamation wastewater, pre-press rinse water and aqueous coating flush water may be discharged to the sanitary sewer without treatment under this general permit provided all other conditions of this general permit are met.
- (6) The permittee shall prepare and implement written procedures for the treatment and/or disposal of Minor Printing and Publishing Wastewater. Such procedures shall include, but not be limited to the containment, clean-up and disposal of spills. In addition, appropriate employees shall be provided with routine training on these procedures. Such procedures and records of training dates shall be kept on-site.
- (7) Bulk photo processing or CTP solutions, inks, solvents, or wastewaters which are stored in containers of at least 50 gallons capacity shall be kept in a roofed containment area with impermeable flooring which will hold at least the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger. Storage areas established inside a building shall be located away from floor drains, outside door openings, and high traffic areas for equipment such as fork lifts.
- (8) Printing equipment, including but not limited to plates and rollers, shall have excess ink, coating, or adhesive wiped or squeegeed off prior to washing in sinks.
- (9) Floor drains in printing or pre-press areas shall be connected to the sanitary sewer or a holding tank, and not to the storm drainage system, dry well, or septic system. Floor drains must be collared or protected in some way as to

prevent spills from entering the floor drain.

- (10) Any permittee that generates, transports, or stores silver bearing waste(s) that are recycled for purposes of precious metals recovery is subject to the Connecticut Hazardous Waste Management Regulations, including but not necessarily limited to, sections 22a-449(c)-101(c) and 22a-449(c)-106(b) of the Regulations of the Connecticut State Agencies incorporating 40 CFR 261.6 and 40 CFR 266.70 respectively. The permittee should contact the Waste Engineering and Enforcement Division's Compliance Assistance telephone number at (860) 424-4193 or (888) 424-4193 for additional details regarding the aforementioned RCRA provisions, or to request a copy of the recyclable materials registration form prescribed by the Commissioner.

(11) Collection and Transport of Minor Printing and Publishing Wastewater

Any person or municipality may install treatment and/or storage facilities for the collection of Minor Printing and Publishing Wastewater produced on-site and provide for the transport of these wastewaters to a POTW for further treatment in accordance with this paragraph with the prior approval of the POTW authority. It should be noted that all wastewaters to be hauled to a POTW shall 1) meet the effluent limits specified in Section 5(b) of this general permit prior to transport and 2) be transported by a permitted waste transporter in a manner acceptable to the commissioner. Any holding tank constructed for the storage of Minor Printing and Publishing Wastewater shall comply with the following:

- (A) An above-ground holding tank shall have 110% secondary containment storage capacity.
- (B) A below-ground holding tank shall be constructed of either fiberglass reinforced plastic, cathodically protected steel with a manufacturer applied anti-corrosive coating, or cathodically protected double-walled steel.
- (C) Any holding tank, whether located above or below-ground, shall be equipped with a hard-wired, high level alarm system clearly audible in the normal working range of responding personnel, which alarm system shall indicate when the volume of wastewater in such holding tank has reached 80% of its holding capacity.

***(b) Effluent Limitations***

- (1) Minor Printing and Publishing Wastewater shall meet the pH and chemical limitation requirements of the POTW to which the wastewater will be discharged or the limitations in Sections 5(b)(2) and 5(b)(3), whichever is more stringent.

(2) pH

The pH of discharges of Minor Printing and Publishing Wastewater shall not be less than 6.0 nor greater than 11.0 Standard Units at any time.

(3) Chemical Limitations

(A) Minor Printing and Publishing Wastewater

**Table I**

<i>Parameter</i>	<i>Maximum Concentration</i>
Arsenic, Total	0.1 mg/l
Cadmium, Total	0.5 mg/l
Chromium, Total	2.0 mg/l
Copper, Total	2.0 mg/l
Cyanide, Total	0.65 mg/l
Lead, Total	0.5 mg/l
Mercury, Total	0.1 mg/l
Nickel, total	2.0 mg/l
Silver, Total	2.0 mg/l
<b>*Total Volatile Organics</b>	<b>5.0 mg/l</b>

\*as measured by EPA test method 624

(B) Silver-rich Wastewater

**Table II**

<i>Parameter</i>	<i>Limit</i>	
Silver, Total	5.0 mg/l	For discharges of 100 gallons per week or less of treated silver-rich wastewater
Silver, Total	2.0 mg/l	For discharges of more than 100 gallons per week of treated silver-rich wastewater

**(c) Monitoring Requirements**

(1) Monitoring Parameters and Frequency

(A) Discharges of Minor Printing and Publishing Wastewater, other than photo processing wastewater, with a maximum daily flow per site of 100 gallons per day or greater shall monitor such discharge for all parameters

listed in Section 5(b)(2) and Section 5(b)(3)(A) Table I of this general permit. Sampling frequency shall be at least once every twelve months.

- (B) CTP wastewater shall be monitored as follows:
  - (i) Silver-rich wastewater shall be monitored in accordance with Section 5(c)(1)(C).
  - (ii) Wastewater with pH levels in accordance with Section 5(b)(2) shall be monitored in accordance with Section 5(c)(1)(A)
  - (iii) Wastewater adjusted for pH and directly discharged to the sewer must meet the following:
    - a. pH adjust system must have an automatic alarm to alert operators if the system is malfunctioning.
    - b. pH adjust system must have a chart recorder or electronic memory recorder.
  - (iv) Wastewater adjusted for pH in a closed-loop system must monitor pH with a portable test kit or pH meter prior to discharge. Date, volume discharged and pH of wastewater must be recorded on a log.
  
- (C) Discharges of silver-rich wastewater shall be monitored as follows:
  - (i) The performance of any silver recovery system shall be evaluated by monitoring the effluent using silver test paper or a portable Colorimetric test kit and recording the results a minimum of once per month
  - (ii) In addition, testing to determine compliance with effluent limitations listed under Section 5(b)(3)(B) Table II of this general permit shall be performed using the methods approved in accordance with 40 CFR Part 136 annually for discharges of greater than or equal to 1 gallon per week of treated silver-rich wastewater.
  
  - (iii) Discharges of less than one (1) gallon per week of treated silver-rich solutions are exempt from effluent monitoring using the methods approved in accordance with 40 CFR Part 136, but are responsible for monthly performance testing using silver test paper or a portable Colorimetric test kit.

(2) Chemical Analysis

Chemical analysis to determine compliance with effluent limits and conditions for discharges of Minor Printing and Publishing Wastewater other than photo processing shall be performed using the methods approved in accordance with 40 CFR Part 136, or as approved in writing by the commissioner.

(3) Monitoring Location

- (A) All wastewater samples shall be comprised only of Minor Printing and Publishing Wastewaters, and shall be taken prior to combination with wastewaters of any other type. Minor Printing and Publishing

Wastewater should not be combined with silver-rich wastewater prior to sampling. A sample may consist of a composite of Minor Printing and Publishing Wastewaters from several sources at one site, or can be a grab sample if there is only one source. All samples taken shall be representative of the discharge during standard operating conditions.

- (B) Samples collected for the purpose of determining compliance with the silver limitations specified in Section 5(b)(3)(B) Table II of this general permit shall be grab samples taken at or downstream of the location where treated and untreated photo processing or silver-based CTP system wastewaters combine. These samples shall be comprised solely of wastewater from equipment generating silver-rich wastewaters, and shall be taken prior to combination with wastewaters of any other type. All samples taken shall be representative of the discharge during standard operating conditions, and shall be taken while a discharge is occurring from the silver recovery unit in order to capture the treated effluent.

***(d) Reporting and Recordkeeping Requirements***

Except as provided below, or as otherwise specified by the commissioner, all analytical results and other information required under this general permit shall not be required to be submitted to the commissioner but instead shall be retained on-site or at the permittee's principal place of business in Connecticut, for a period of five years as required by Section 22a-430-3(j)(9)(B) of the Regulations of Connecticut State Agencies, and shall be made available to the commissioner, or the local POTW authority immediately upon request.

***(e) Recording and Reporting Violations***

- (1) If an analytical result of a wastewater sample taken or data generated by any other monitoring conducted under this general permit indicates that a violation of an effluent limitation or other condition of this general permit has occurred, the permittee shall immediately take all appropriate actions to abate such violation and prevent its recurrence. Within 24 hours of its occurrence, each such violation shall be recorded on a General Permit Violation Form prescribed and furnished by the commissioner. Upon completing such form, the permittee shall retain it for a period of at least five years at the subject site.

Within thirty days of the occurrence of such a violation, the permittee shall deliver a copy of such form to the applicable POTW Authority and to the commissioner.

Copies directed to the commissioner shall be submitted to the following address:



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GENERAL PERMIT UNIT  
WATER PERMITTING AND ENFORCEMENT DIVISION  
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE  
ASSURANCE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

- (2) If analysis of a single sample shows three or more violations of any of the requirements of this general permit, or cumulatively three or more such violations are shown by successive sampling events, or four or more such violations occur during any calendar year, within 60 days of this determination the permittee shall deliver to the applicable POTW Authority and to the commissioner, a written report prepared by a certified hazardous materials manager or a professional engineer licensed to practice in Connecticut. Such report shall describe in detail all actions that have been taken with respect to the subject discharge and/or subject site to prevent any further violations of this general permit. Such report shall include the following certification by such manager or engineer:

“I certify that in my professional judgment the discharge which is the subject of this report, as well as any other authorized discharges generated at the subject site, comply with all effluent limitations and other conditions of the *General Permit for the Discharge of Minor Printing and Publishing Wastewater*, and that proper operation and maintenance of any equipment or system to treat each discharge will ensure that all such conditions are met or, if there is no such equipment or system, each such discharge will meet all such conditions without treatment. This certification is based in part on my review of chemical analyses of at least three grab samples collected, handled, and analyzed in accordance with 40 CFR Part 136, where the samples were representative of such discharge during routine operating conditions and were taken at least one week apart following the implementation of measures to correct any violations of the requirements of this general permit. I understand that a false statement made in this report, including all attachments thereto, or in this certification may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes and any other applicable law.”

Such certified report directed to the commissioner shall be sent to the following address:

GENERAL PERMIT UNIT  
WATER PERMITTING AND ENFORCEMENT DIVISION  
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE  
ASSURANCE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

- (3) The permittee shall also submit a copy of any report required under this subsection to the applicable POTW authority, including a copy of any completed General Permit Violation Form prepared under Section 5(e)(1) of this general permit.

**(f) *Regulations of Connecticut State Agencies Incorporated into this General Permit***

The permittee shall comply with the following Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein:

- (1) Section 22a-430-3:

Subsection (b) General - subparagraph (1)(D) and subdivisions (2), (3), (4) and (5)

Subsection (c) Inspection and Entry

Subsection (d) Effect of a Permit-subdivisions (1) and (4)

Subsection (e) Duty to Comply

Subsection (f) Proper Operation and Maintenance

Subsection (g) Sludge Disposal

Subsection (h) Duty to Mitigate

Subsection (l) Facility Modifications, Notification-subdivisions (1) and (4)

Subsection (j) Monitoring, Records and Reporting Requirements-subdivisions (1), (6), (7), (8), (9) and (11) [except subparagraphs (9)(A)(2), and (9)(C)]

Subsection (k) Bypass

Subsection (m) Effluent Limitations Violations

Subsection (n) Enforcement

Subsection (o) Resource Conservation

Subsection (p) Spill Prevention and Control

Subsection (q) Instrumentation, Alarms, Flow Recorders

Subsection (r) Equalization

- (2) Section 22a-430-4

Subsection (t) Prohibitions

Subsection (p) Revocation, Denial, Modification  
Appendices

**(g) *Reliance on Registration***

When evaluating a registration, the commissioner relies on information provided by the registrant. If such information proves to be false or incomplete, the authorization issued under this general permit may be suspended or revoked in accordance with law, and the commissioner may take any other legal action provided by law.

**(h) *Duty to Correct and Report Violations***

Upon learning of a violation of a condition of this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct such violation and mitigate its results, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five (5) days of the permittee's learning of such violation. Such report shall be certified in accordance with Section 5(j) of this general permit.

**(i) *Duty to Provide Information***

If the commissioner requests any information pertinent to the authorized activity or to compliance with this general permit or with the permittee's approval of registration, the permittee shall provide such information in writing within thirty (30) days of such request. Such information shall be certified in accordance with Section 5(j) of this general permit.

**(j) *Certification of Documents***

Any document, including but not limited to any notice, which is submitted to the commissioner under this general permit shall be signed by, as applicable, the registrant or the permittee in accordance with Section 22a-430-3(b)(2) of the Regulations of Connecticut State Agencies, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”

**(k) *Date of Filing***

For purposes of this general permit, the date of filing with the commissioner of any document is the date such document is received by the commissioner.

**(l) *False Statements***

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

**(m) *Correction of Inaccuracies***

Within fifteen (15) days after the date a permittee becomes aware of a change in any

of the information submitted pursuant to this general permit, becomes aware that any such information is inaccurate or misleading, or becomes aware that any relevant information has been omitted, such permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the commissioner. Such information shall be certified in accordance with Section 5(j) of this general permit.

**(n) *Transfer of Authorization***

Any authorization under this general permit shall be non-transferable.

**(o) *Other Applicable Law***

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

**(p) *Other Rights***

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or activity affected by such general permit. In conducting any activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

**Section 6. Commissioner's Powers**

**(a) *Abatement of Violations***

The commissioner may take any action provided by law to abate a violation of this general permit, including the commencement of proceedings to collect penalties for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with Sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

**(b) *General Permit Revocation, Suspension, or Modification***

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify it to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

**(c) *Filing of an Individual Permit Application***

If the commissioner notifies a permittee in writing that such permittee must obtain an

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individual permit if he wishes to continue lawfully conducting the activity authorized by this general permit, the permittee may continue conducting such activity only if he files an application for an individual permit within thirty (30) days of receiving the commissioner's notice. While such application is pending before the commissioner, the permittee shall comply with the terms and conditions of this general permit and the subject approval of registration. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued Date: \_\_\_\_\_

\_\_\_\_\_  
Gina McCarthy  
Commissioner



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

# **General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer**

Issuance Date: August 13, 1996  
Reissuance Date: Month XX, 2007

Printed on recycled paper

# General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer

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# General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer

## Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the General Statutes.

## Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in section 22a-423 of the General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. As used in this general permit, the following definitions shall apply:

*“Aquifer Protection Areas”* are areas that contribute water to public water supply wells as defined in section 22a-354h(10) of the General Statutes.

*“Base Neutral and Acid Extractable Compounds”* (BNAs) means compounds detected as Semivolatile Organic Compounds using analytical methods approved per 40 CFR 136, and compounds listed as BNAs in Appendix A of this general permit.

*“Best Management Practices”* (BMP) means a practice, procedure, structure or facility designed to prevent or minimize environmental damage, or to maintain or enhance environmental quality. BMPs may include treatment requirements, operating procedures, practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage, practices to provide necessary streamflow in surface waters and minimize or avoid adverse impacts to adjacent wells, fish and wildlife.

*“Chlorinated Volatile Organic Compounds”* means volatile organic compounds (VOCs) that have chlorine substituted at location or locations otherwise occupied by hydrogen, including Carbon Tetrachloride; 1,2 (or o)-Dichlorobenzene (o-DCB); 1,3 (or m)-Dichlorobenzene (m-DCB); 1,4 (or p)-Dichlorobenzene (p-DCB); 1,1-Dichloroethane (DCA); 1,2-Dichloroethane; 1,1-Dichloroethylene (DCE); cis-1,2-Dichloroethylene; Dichloromethane (DCM); Tetrachloroethylene (PCE); 1,1,1-Trichloroethane (TCA); 1,1,2 Trichloroethane; Trichloroethylene (TCE); and Vinyl Chloride.

*“Coastal Boundary”* shall be as defined in section 22a-94(b) of the General Statutes.

*“Department”* means the Department of Environmental Protection.

*“Endangered Species Area”* means any area designated on maps produced by the DEP, entitled, “State and Federal Listed Species and Natural Communities.”

*“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.

*“Liquid”* means flowing freely like water, characterized by free movement of constituent molecules among themselves, without the tendency to separate.

*“Oil or Petroleum”* means oil or petroleum of any kind in liquid form including but not limited to waste oils and distillation products such as fuel oil, kerosene, naphtha, gasoline and benzene.

*“Oxygenates”* means fuel additives (alcohols and ethers) that contain oxygen which can boost gasoline’s octane quality, enhance combustion, and reduce exhaust emissions.

*“Phthalate Esters”* means those compounds detected as “phthalate esters” using analytical methods approved per 40 CFR 136, and including compounds identified as phthalate esters in Appendix A of this general permit.

*“Polynuclear Aromatic Hydrocarbons”* (PAHs) means compounds detected as “polynuclear aromatic hydrocarbons” using analytical methods approved per 40 CFR 136, and including compounds identified as PAHs in Appendix A of this general permit.

*“Permittee”* means any person who or municipality which initiates, creates, originates or maintains a discharge in accordance with Section 3 of this general permit.

*“Phenols”* means compounds detected as “phenols” using analytical methods approved per 40 CFR 136, and including compounds identified as phenols in Appendix A of this general permit.

*“POTW Authority”* means the chairperson or duly authorized representative of the Water Pollution Control Authority which owns or operates a Publicly Owned Treatment Works (POTW).

*“Recovery Well”* means a well used for pumping contaminated groundwater.

*“Registrant”* means a person who or municipality which submits a registration in accordance with Section 4 of this general permit.

*“Registration”* means a completed registration form and registration fee submitted to the Commissioner pursuant to Section 4 of this general permit.

*“Remote Site”* means a property, on which a groundwater remediation system is installed, but no other activity is performed and the property is otherwise abandoned.

*“Screening Analysis”* means the analysis performed prior to submittal of the general permit registration form and at regular intervals thereafter in accordance with Section 4 of this

general permit.

“*Site*” means geographically contiguous land on which an authorized activity takes place or on which an activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person and connected by a right-of-way which such person controls and to which the public does not have access shall be deemed the same site.

“*Tentatively Identified Compounds*” means compounds detected in samples that are not target compounds, internal standards, system monitoring compounds or surrogates.

“*Tidal Wetlands*” shall be as defined in section 22a-29(2) of the General Statutes.

“*Volatile Organic Compounds*” (VOCs) means compounds detected as “volatile organics” using analytical methods approved per 40 CFR 136.

“*Well development wastewater*” means wastewater generated by the pumping of water production wells to enhance yields through the removal of scale and other fine materials from the sides of the wells.

“*Well purging wastewater*” means wastewater generated by the removal of standing waters from a well to encourage the inflow of surrounding groundwaters.

### **Section 3. Authorization Under this General Permit**

#### **(a) Requirements for Authorization**

This general permit authorizes only discharges comprised solely of groundwater remediation wastewater provided:

- (1) The discharge is *not* authorized by a valid individual permit issued under section 22a-430 of the General Statutes.
- (2) The discharge is to a Publicly Owned Treatment Works (POTW).
- (3) Any chemical additives used to treat groundwater remediation wastewater have been approved in writing by the Department and the POTW if such additives contain any substances in Appendix B, Tables II, III, and V, and Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies.
- (4) The maximum daily flow of all discharges of groundwater remediation wastewater generated by a permittee on one site does not exceed five percent (5%) of the design capacity of the POTW which receives the discharge.
- (5) For all discharges, a completed registration form has been submitted to the Commissioner in accordance with the provisions of Section 5 of this general permit.
- (6) A screening analysis has been performed in accordance with Section 4 of this general permit. The results of such analysis have been submitted to the POTW

Authority on a form prescribed and provided by the Commissioner.

- (7) The POTW Authority receiving the discharge has approved the discharge in writing.
- (8) The discharge of groundwater remediation wastewater within a coastal boundary as defined in section 22a-94 of the General Statutes is consistent with all-applicable goals and policies of the Coastal Management Act specified in section 22a-92 of the General Statutes.
- (9) The discharge of groundwater remediation wastewater does not threaten the continued existence of any species listed pursuant to Section 26-306 of the General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat essential to such species.
- (10) All required fees have been paid to the Commissioner.
- (11) No categorical effluent limitation standard or guideline adopted by the U.S. Environmental Protection Agency under the federal Clean Water Act is applicable to the discharge.
- (12) Any site generating a discharge of greater than 50,000 gallons per day has in effect a valid permit issued by the Commissioner pursuant to Sections 22a-6 and 22a-378a of the General Statutes.

Any discharge of water, substance or material into the waters of the state other than as specified in this subsection, is not authorized by this general permit. Any person who or municipality which wishes to initiate, create, originate or maintain such other discharge shall first apply for and obtain an individual permit under section 22a-430 of the General Statutes, or be authorized by a general permit issued under section 22a-430b of the General Statutes.

**(b) *Geographic Area***

This general permit applies throughout the State of Connecticut.

**(c) *Effective Date and Expiration Date***

This general permit is effective on Month XX, 2007 and shall expire on Month XX, 2017.

**(d) *Effective Date of Authorization***

For those persons and municipalities required to submit a registration under Section 5 of this general permit, the effective date of authorization under this general permit is the date a registration which meets the requirements of Section 5 of this general permit is received by the Commissioner.

(e) ***Issuance of an Individual Permit***

If the Commissioner issues an individual permit under section 22a-430 of the General Statutes authorizing a discharge previously authorized by this general permit, the applicability of this general permit as it applies to the individually permitted discharge is automatically terminated on the effective date of the individual permit.

**Section 4. Screening Requirements**

(a) ***Screening Analysis***

Prior to initiating a discharge in accordance with this general permit, the water to be discharged must be tested in its raw state ("screening analysis"), in accordance with the following procedures:

- (1) For *all* discharges, raw water shall be analyzed for the following parameters:

Volatile Organic Compounds. In addition, the registrant shall report the 5 most prevalent tentatively identified compounds (TICs) detectable by these methodologies if such compounds are known or should reasonably be known to have been used, stored, released or disposed of on-site.

Total Petroleum Hydrocarbons.

Gasoline oxygenates, including TBA, MTBE, TAME, and related compounds known to be used in the gasoline released.

Total Lead (as detected by methods approved pursuant to 40 CFR 136).

- (2) For any discharge from a site at which the person creating, originating or maintaining a discharge knows or should reasonably know that any pollutant listed in Appendix B, Tables II, III, IV and V, or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies, has been used, stored, released, or disposed of, a screening analysis for these pollutants shall be conducted.
- (3) If the person creating, originating or maintaining a discharge knows or should reasonably know that any other pollutant has been used, stored, released, or disposed of, which pollutant could be toxic, hazardous or detrimental to the operation of the sewage treatment facility, or that such pollutant may pass through the sewage treatment facility or be detrimental to sludge handling, a screening analysis shall be conducted for such pollutant.

(b) ***Subsequent Screening Analysis***

After initiating a discharge in accordance with this general permit, the water discharged must be tested in its raw state ("screening analysis"), in accordance with the following procedures:

- (1) The screening analysis shall be conducted as specified in Section 6(a)(1)(A) of this general permit.

- (2) The raw water shall be analyzed for:

Volatile Organic Compounds. In addition, the registrant shall report the 5 most prevalent tentatively identified compounds (TICs) detectable by these methodologies if such compounds are known or should reasonably be known to have been used, stored, released or disposed of on-site.

Any parameter required pursuant to Section 4(a)(2) or 4(a)(3) of this general permit.

**(c) *Screening Procedures***

- (1) All samples taken for the purpose of the screening analysis shall be (a) representative of the quality of water to be discharged, (b) grab samples, and (c) collected, preserved, handled and analyzed in accordance with Title 40 Part 136 of the Code of Federal Regulations (40 CFR 136).
- (2) Waters that result from well construction, well development water, and water that results from sampling programs shall be retained until the screening analysis is performed. These collected waters shall then be discharged through a treatment system if required pursuant to section 6 of this general permit. Otherwise, such wastewaters shall be collected and disposed of off-site at an appropriate disposal facility by a licensed waste transporter.
- (3) A screening analysis shall be performed as a registration requirement and as specified in Section 6(a)(1)(A) of this general permit from the effective date of authorization and documented on a Screening Form (DEP-WPED-GRW-001) prescribed and provided by the Commissioner. The Screening Form (DEP-WPED-GRW-001) shall be submitted to the Commissioner **only** (a) at the time a registration is initially submitted, or (b) if the parameters to be monitored are different than the parameters that were monitored the previous year, or (c) if screening results indicate the need to continue monitoring as specified in Section 4(c)(4) of this general permit. Otherwise, the Screening Form (DEP-WPED-GRW-001) shall be retained on-site, or be readily accessible by the permittee, along with copies of the laboratory results, in accordance with Section 6(d) of this general permit.
- (4) Each time a screening analysis is performed, any parameter that exceeds effluent limitations listed in Attachment A of this general permit shall be identified and the water to be discharged shall be monitored thereafter for such parameters in accordance with Section 6 of this general permit. Treatment shall be required as specified in Section 6 of this general permit for any such pollutant if, (a) for any one sample the concentration exceeds three times the listed effluent limitation, or (b) compliance with limitations is not indicated in each of three consecutive sampling events following an exceedance.

## Section 5. Registration Requirements

### *(a) Who Must Submit a Registration*

- (1) Any person who or municipality which intends, in accordance with this general permit to initiate, create, originate or maintain a discharge of groundwater remediation wastewater to a POTW shall submit a completed registration form and fee. If the source or activity generating the discharge for which a registration is submitted under this general permit is owned by one person or municipality but is leased or in some other way the legal responsibility of another person or municipality (the operator), it is the operator's responsibility to submit the registration required by this general permit.
- (2) Any person who or municipality which has previously registered under the General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer issued by the commissioner on August 13, 1996 shall file a renewal registration on or before 60 days following the reissuance of this general permit, except for facilities who have submitted a registration after January 1, 2006. Any person or municipality who have submitted a registration after January 1, 2006 need not file a new registration, re-register, or pay any additional permitting fee. Such facility may continue to operate under the terms and conditions of this general permit.

### *(b) Scope of Registration*

A registration shall only include discharges of groundwater remediation wastewater from a single site. All discharges of groundwater remediation wastewater occurring simultaneously at a single site shall be included in the same registration.

### *(c) Contents of Registration*

#### (1) Fees

- (A) A registration fee of \$500.00 shall be submitted for each new registration form or modification of an existing general permit registration. Pursuant to section 22a-430-6(m)(1) of the Regulations of Connecticut State Agencies and section 22a-6(b) of the General Statutes, the fee submitted by any municipalities shall be \$250.00. Pursuant to section 22a-430-6(l) of the Regulations of Connecticut State Agencies there shall be no fee for any registration submitted for a site used solely as a single-family residence.
- (B) The registration fee shall be paid by certified check or money order payable to the "Department of Environmental Protection".
- (C) The registration fee is nonrefundable.

#### (2) Registration Form

The registration information shall be submitted on forms prescribed and provided by the Commissioner and shall include, without limitation, the following:

- A) Legal name, address, and telephone number of the person or municipality which wishes to initiate, create, originate or maintain the discharge and of the person who or municipality which owns the activity or source generating the discharge. If any such person(s) is a corporation transacting business in Connecticut, include the exact name as registered with the Connecticut Secretary of the State.
- (B) Legal name, address, and telephone number of the owner of the property on which the discharge is proposed to take place.
- (C) Legal name, address, and telephone number of the registrant's attorney or other representative, if any.
- (D) Legal name, address, and telephone number of any consultant retained to design the proposed remedial actions on the site.
- (E) Location address of the site for which the registration is submitted.
- (F) Identification of whether the site location is in the coastal boundary, or in an endangered species area or in a tidal wetland area or in an aquifer protection area.
- (G) An indication of whether there are any public or private drinking water wells within 1/4 mile of the site.
- (H) An indication of whether treatment will include air stripping.
- (I) Maximum daily flow and number of hours per day of the discharge.
- (J) An estimate of when the discharge will begin and the estimated duration of the discharge authorized by this general permit.
- (K) A detailed description of the type of contamination being remediated, and the likely source of such contamination.
- (L) A detailed description of the activity generating the discharge (i.e. site dewatering, pump test, groundwater recovery well).
- (M) The groundwater classification of the site, and the name, location and design flow of the POTW which will receive the discharge.
- (N) A detailed description of the type of treatment system, if any, installed to treat each discharge.
- (O) A plan of the site ("site plan") showing at least the boundaries of the site, the exact location of all existing and proposed recovery, soil venting and drinking water wells on the site, the location of discharges authorized by this general permit, the monitoring locations, the treatment system, if any, and the location of wetlands and watercourses as defined by Sections 22a-

28 and 22a-38 of the General Statutes.

- (P) An 8 ½” by 11” copy of applicable sections of a United States Geological Survey (USGS) quadrangle map, with a scale of 1:24,000, showing the exact location of each groundwater treatment system, specifying the longitude and latitude of the discharges to within the closest 15 seconds, the location of any drinking water wells within a quarter mile of the site and including the name of the USGS map.
  
- (Q) The results of the screening analysis performed in accordance with Section 4 of this general permit. Results shall be submitted on the Screening Form (DEP-WPED-GWR-001) prescribed and provided by the Commissioner.
  
- (R) On a form prescribed and provided by the Commissioner, an approval by the POTW Authority receiving the discharge for connection to the POTW.
  
- (S) For any discharge, the following certification, signed by a professional engineer, licensed to practice in Connecticut, a certified hazardous materials manager, or a licensed environmental professional:  
  
“I certify that in my professional judgment, proper operation and maintenance of any system installed to treat the discharges which are the subject of this registration will ensure that all effluent limitations and other conditions in the *General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer* issued on August 13, 1996 and reissued on Month XX, 2007 will be met. This certification is based in part on my review of the information contained in the screening requirement form completed for the discharges and attached to this registration and, if applicable, a review of the historic land use of the site, and on any other water analyses associated with the discharges, and on engineering and/or hydrogeologic reports and/or plans and specifications describing (1) the proposed activities and (2) any proposed treatment facilities for the wastewater to be discharged. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.”
  
- (T) The signature of the registrant and of the individual or individuals responsible for actually preparing the registration, each of whom shall certify in writing as follows:  
  
“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that a copy of this registration has been submitted to the parties described in Section 3(a)(7) and in accordance with such section of the general permit. I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6



of the General Statutes, pursuant to section 53a-157 of the General Statutes, and in accordance with any other applicable statute.”

**(d) *Where to Submit a Registration***

- (1) A registration shall be submitted to the following address:

CENTRAL PERMIT PROCESSING UNIT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

- (2) For any discharge of groundwater remediation wastewater to a POTW, a certified copy of the completed registration form including all screening documentation shall also be sent to the POTW authority which will receive the discharge.
- (3) One additional copy of the completed registration form shall be submitted along with the original at the address specified in paragraph (1) of this subsection, for each of the following conditions:
- (A) For any discharge of groundwater remediation wastewater where drinking water wells exist within one-quarter mile of the proposed site;
- (B) For any discharge of groundwater remediation wastewater where air stripping is used as a wastewater treatment.

**(e) *Correction of Inaccuracies***

Within fifteen days after the date the registrant or permittee becomes aware of a change in any information in registration documents submitted to the Commissioner under this general permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, such registrant or permittee shall submit the correct or omitted information in writing on forms prescribed and provided by the Commissioner.

**(f) *False Statements***

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense under section 22a-438 of the General Statutes or, in accordance with section 22a-6, under section 53a-157 of the General Statutes.

**(g) *Additional Information***

The Commissioner may require a registrant to submit additional information which the Commissioner deems necessary to evaluate the consistency of the discharges of groundwater remediation wastewater with the criteria for authorization under this general permit.

**(h) *Disapproval and Rejection of a Registration***

- (1) The Commissioner may disapprove a registration (a) for the same reasons for

which the Commissioner may, under section 22a-430 of the General Statutes, require an individual permit, including without limitation, if the Commissioner finds that the groundwater remediation activity is inconsistent with the criteria for authorization under this general permit, (b) if the Commissioner finds that the groundwater remediation activity is inconsistent with any of the applicable standards and criteria of Sections 22a-365 to 22a-378 of the General Statutes, inclusive, section 22a-430 and section 22a-32 of the General Statutes, or (c) for any other reason provided by law. Disapproval of a registration under this subdivision shall constitute notice that an individual permit must be obtained under section 22a-430 of the General Statutes.

- (2) The Commissioner may reject a registration if the Commissioner determines that: (a) said registration is insufficient, or (b) more than thirty (30) days have elapsed since the Commissioner requested that the registrant submit additional information or the required registration fee and the registrant has not submitted such information or fee. A registration resubmitted after rejection pursuant to this subdivision shall be accompanied by the registration fee required under Section 5(c)(1) of this general permit.

**(i) *Transfer of Authorization***

Any authorization under this general permit shall be non-transferable.

## **Section 6. Permit Terms and Conditions**

**(a) *Monitoring and Treatment Requirements***

- (1) All discharges shall be monitored and treated in accordance with the following:
  - (A) For all discharges with a maximum daily flow exceeding 5,000 gallons per day, the permittee shall, on a semiannual basis, perform a screening analysis as outlined in Section 4 of this general permit. For discharges with a maximum daily flow less than 5,000 gallons per day, the permittee shall, on an annual basis, perform a screening analysis as outlined in Section 4 of this general permit.
  - (B) The permittee shall monitor the discharges for the presence of Volatile Organic Compounds (VOCs) if, (1) any screening analysis detects the presence of VOCs at a concentration exceeding 10 % of the limit specified in this general permit, or (2) the source of pollution being remediated includes gasoline and/or chlorinated solvents, or (3) there is reason to believe that site activities will result in the discharge of VOCs at a concentration exceeding 10 % of the limit specified in this general permit. To determine treatment requirements for VOCs, the permittee shall add the individual concentrations of all compounds detected in any single sample analyzed using these methods. If the sum of chlorinated VOCs exceeds 1.0 mg/l, or the total of all VOCs exceeds 5.0 mg/l, the permittee shall treat the discharges for the removal of VOCs using either:
    - (i) An air stripping system utilizing an air stripping tower equipped with an electrically operated automatic shut-off which disconnects

power to the well pump whenever the air blower is not operating; or

- (ii) A treatment system using activated carbon filtration designed to consistently treat the groundwater to levels below the levels described above.
- (C) The permittee shall monitor and treat the discharges for the removal of petroleum if: (1) the results of any analysis of the discharges indicates that petroleum hydrocarbons are present in the groundwater above 100 mg/l; or (2) oil or an oily sheen is visible in the water to be discharged; or (3) the source of the contamination being remediated is petroleum oil. The discharger shall treat the discharges for the removal of oil using either:
- (i) Gravity separation (including lamella plate systems);
  - (ii) Oil absorbents;
  - (iii) Ultrafiltration or other comparable filtration technology, or
  - (iv) Any combination of the above technologies necessary to maintain total petroleum hydrocarbon concentrations below 100 mg/l in the discharges at all times.
- (D) The permittee shall monitor the discharges for total lead: if (1) any analysis indicates that lead is present in the groundwater at concentrations greater than 0.1 mg/l; or (2) the site has been historically or presently used as a vehicle service operation; or (3) the source of the contamination being remediated is gasoline. For any site where lead concentrations in the discharges exceeds 0.1 mg/l, the permittee shall treat the discharges for removal of lead to below 0.1 mg/l.
- (E) The permittee shall monitor and treat the discharges for any other pollutant in accordance with this section, if the screening analysis performed in accordance with Section 4(b) of this general permit identifies the presence of any pollutant in the groundwater at levels above either: (a) any effluent limitations listed in the municipal sewer ordinance of the receiving POTW; or (b) the limitations listed in Attachment A of this general permit. Treatment of the discharges for removal of any such pollutant to a level below the effluent limitation listed in Attachment A of this general permit shall be performed prior to discharge.
- (2) Monitoring Location
- (A) Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at a monitoring point before the effluent joins or is diluted by any other wastestream, or substance.
  - (B) For any site with more than one discharge point to the sanitary sewer, individual samples shall be collected from each discharge. Samples shall

be designated as DSN 201, DSN 202, etc.

(3) Monitoring to verify compliance with the effluent limitations in this section and Attachment A of this general permit shall be performed according to the following schedule:

(A) For each initiation or restart of a discharge after an exceedance of an effluent limitation, the discharge shall be sampled on the first day of discharge and then every other day for the first two weeks, weekly for the next month, and then as follows depending upon the maximum daily flow:

<i>Maximum Daily Flow</i> <i>(gallons per day)</i>	<i>Monitoring Frequency</i>
Less than 5,000	quarterly
5,000 or more	monthly

(B) For each restart of a discharge for any reason other than an exceedance of a parameter limit, the discharge shall be sampled on the first day of discharge and then in accordance with the sampling schedule at the time the discharge was ceased.

(C) For intermittent discharges, of groundwater remediation wastewaters, generated from scheduled activities conducted at sites that have no other discharges of such wastewaters, the following monitoring shall be required:

- (i) A minimum of one representative sample shall be collected per discharge event and analyzed in accordance with Section 6(a)(4) of this general permit;
- (ii) If multiple points are sampled independently, a volume-proportioned average of analytical results may be substituted for a single sample;
- (iii) Treatment and discharge shall be conducted as described for screening waters in Section 4(c)(2) of this general permit.

(4) Samples taken for purposes of determining compliance with all effluent limitations and monitoring requirements listed in this general permit shall be grab samples. All sample analyses which are required by this general permit and all reporting of such analyses, shall be done by a laboratory certified by the Connecticut Department of Public Health. Chemical analysis shall be performed using methods approved in accordance with 40 CFR 136 which are capable of achieving limits of detection below the level established as an effluent limitation in Section 5(d) and Attachment A of this general permit.

(5) All discharges of greater than 5000 gallons per day, shall have a flow meter installed capable of recording total daily flow. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and

maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. All other discharges shall implement flow-measuring procedures to adequately estimate flows.

- (6) The permittee shall periodically calibrate and perform maintenance on all monitoring and field equipment used to monitor the pollutants discharged under this general permit, at intervals that will ensure the accuracy of measurements.

**(b) *Effluent Limitations***

- (1) The effluent limitations specified in Attachment A shall not be exceeded at any time as determined by a grab sample.
- (2) The pH of the discharges shall not be less than 5.0 nor greater than 10.0 standard units at any time.

**(c) *Pollution Prevention/Best Management Practices***

- (1) Solid waste, including but not limited to contaminated soils or sludges, may be generated as a result of the remediation activity allowed by this general permit. All waste generated must be disposed of in accordance with applicable federal, state and local law. Some or all of these wastes may be hazardous waste identified in accordance with Section 3001 of the Federal Resource Conservation and Recovery Act of 1976 (42 USC 6901 et seq.) or other wastes of special concern requiring Department approval prior to disposal. It is the responsibility of the permittee to ensure that all wastes generated are properly identified and that all necessary Department approvals are secured prior to disposal of the wastes. For further information regarding solid waste management, please contact the Waste Engineering and Enforcement Division of the Department of Environmental Protection at 860-424-3023.
- (2) Erosion and sediment controls shall be utilized at the site when necessary to prevent discoloration or sedimentation of surface waters as the result of any activity at the site associated with this general permit. Erosion and sedimentation controls may consist of the diversion of run-on, use of hay bales, silt fence, filtration or settling, and must comply at a minimum, with the standards set forth in the "Connecticut Guidelines for Soil Erosion and Sediment Control" as amended, which is available at the Maps and Publication Sales Office of the Department of Environmental Protection at 860-424-3555.
- (3) Air pollution, including but not limited to hazardous air pollutants, may be emitted as a result of the remediation activity allowed by this general permit. It is the responsibility of the permittee to ensure that all air pollution emitted is properly identified and quantified, and that all necessary Department approvals are secured prior to emitting such pollutants. All air pollution emitted must be analyzed to ensure compliance with all applicable federal, state and local laws including but not limited to Sections 22a-174-1 (Definitions), 22a-174-3 (New Sources), and 22a-174-29 (Hazardous Air Pollutants) of the Regulations of Connecticut State Agencies and the National Emission Standards for Hazardous Air Pollutants (NESHAPs) in the Code of Federal Regulations (40 CFR Part

61). For further information, please contact the New Source Review Group, DEP, Bureau of Air Management at 860-424-3028.

- (4) No litter, debris, building materials, or similar materials shall be discharged to the waters of the state from the site.
- (5) The permittee shall conduct routine inspections of all equipment associated with the discharges authorized by this general permit. Inspections shall be conducted as necessary to insure proper operation of all equipment, but at intervals of no more than 7 days, unless the site is a remote site as defined in Section 2 of this general permit with a maximum daily flow of under 14,400 gallons per day. Remote sites with maximum daily flows of less than 14,400 gallons per day shall be inspected as necessary to insure proper operation of all equipment, but at intervals of no more than 30 days.

A log shall be maintained on-site documenting the date of inspection, inspector's name, verification of operation of critical equipment, and a summary of any work or change in equipment associated with the discharges authorized by this general permit.

**(d) Reporting and Record Keeping Requirements**

- (1) Except as provided below, or as otherwise specified by the Commissioner, all analytical results from monitoring and other information required under this general permit shall not be required to be submitted to the Commissioner but instead shall be retained on-site, or be readily available by the permittee as required by section 22a-430-3(j)(9)(B) of the Regulations of Connecticut State Agencies on a Discharge Monitoring Report Form (DEP-WPED-GRW-002) prescribed and provided by the Commissioner. Copies of all such forms shall be submitted to the receiving POTW if requested by an official of the POTW.
- (2) The permittee shall immediately cease the discharge and immediately notify the receiving POTW and the Department by phone as soon as the permittee knows or has reason to believe that the remediation discharge could be reasonably expected to cause adverse effects on the POTW operation. The permittee shall, within 7 days of becoming aware of such occurrence, submit written notification to the Department and to the POTW Authority if requested by the Authority.

Notification by phone shall be made to the Engineer of the Day at 860-424-3018.

Written notification shall be directed to:

WATER PERMITTING AND ENFORCEMENT DIVISION: DMR SECTION  
BUREAU of MATERIALS MANAGEMENT AND COMPLIANCE  
ASSURANCE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

(e) ***Recording and Reporting Violations***

(1) If any analytical results or monitoring data collected under this general permit indicate that a violation of an effluent limitation or another condition of this general permit has occurred, the permittee shall immediately take all measures necessary to ensure that the discharge will comply with effluent limitations and conditions specified in this general permit. All violations shall be recorded on a Violation Form (DEP-WPED-GRW-003) prescribed and provided by the Commissioner. Such form shall, within twenty-four hours of knowledge of the violation, be completed and placed in a log which is maintained at the site, or is readily accessible by the permittee.

(2) A copy of each Violation Form (DEP-WPED-GRW-003) shall be submitted to the Commissioner at the following address, within one week of the violation:

WATER PERMITTING AND ENFORCEMENT DIVISION: DMR SECTION  
BUREAU of MATERIALS MANAGEMENT AND COMPLIANCE  
ASSURANCE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

(3) Immediately after the third simultaneous or consecutive, or fourth annual violation, as applicable, the discharge shall be stopped and shall not be resumed until the permittee submits a report prepared by a professional engineer licensed to practice in Connecticut, a certified hazardous materials manager, or a licensed environmental professional. Such report shall describe actions which have been taken to prevent further violations of this general permit. The report shall contain the following certification signed by a professional engineer licensed to practice in Connecticut, a certified hazardous materials manager, or a licensed environmental professional:

“I certify that in my professional judgment that appropriate modifications and/or additions have been made to the system designed to treat the discharges of groundwater remediation wastewater at the site, and that all discharges of groundwater remediation wastewater at the site comply with all conditions of said permit, including but not limited to all effluent limitations in Sections 6(a) and 6(b) and Attachment A of the *General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer*, and proper operation and maintenance of any system installed to treat such discharges will insure that all effluent limitations and other conditions in such general permit are met, or if there is no treatment system for such discharges, that appropriate modifications have been made to the operations at the site and the discharges will meet all effluent limitations and conditions of such general permit without treatment. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.”

(4) A copy of any report required to be submitted under this section, shall also be sent to the POTW which receives the discharges.

## Section 7. General Conditions

### **(a) Regulations of Connecticut State Agencies Incorporated into this General Permit**

The permittee shall comply with the following Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein:

(1) Section 22a-430-3:

Subsection (b) General - subparagraph (1)(D) and subdivisions (2), (3), (4) and (5)

Subsection (c) Inspection and Entry

Subsection (d) Effect of a Permit - subdivisions (1) and (4)

Subsection (e) Duty to Comply

Subsection (f) Proper Operation and Maintenance

Subsection (g) Sludge Disposal

Subsection (h) Duty to Mitigate

Subsection (i) Facility Modifications, Notification - subdivisions (1) and (4)

Subsection (j) Monitoring, Records and Reporting Requirements - subdivisions (1), (6), (7), (8), (9) and (11) (except subparagraphs (9)(A)(2), and (9)(C))

Subsection (k) Bypass

Subsection (m) Effluent Limitation Violations

Subsection (n) Enforcement

Subsection (o) Resource Conservation

Subsection (p) Spill Prevention and Control

Subsection (q) Instrumentation, Alarms, Flow Recorders

Subsection (r) Equalization

(2) Section 22a-430-4:

Subsection (t) - Prohibitions

Subsection (p) - Revocation, Denial, Modification

Appendices

### **(b) Additional Terms and Conditions**

The permittee shall comply with the following additional terms and conditions:

- (1) The permittee is authorized to discharge (a) pollutants in quantities and concentrations as specified in this general permit and (b) any substances resulting from the activities described in this general permit in concentrations and quantities which the Commissioner determines cannot reasonably be expected to cause pollution and will not adversely affect surface waters, groundwaters, or the operation of a POTW. The Commissioner may seek an injunction or issue an order to prevent or abate pollution, and may seek criminal penalties against a permittee who willfully or with criminal negligence causes or threatens pollution.
- (2) Discharge of any substance which is not from the activities described in this general permit shall be considered a violation of this general permit unless it is authorized by an individual permit issued under section 22a-430 of the General



Statutes, or another general permit issued under section 22a-430b of the General Statutes.

- (3) The permittee shall at all times continue to comply with the conditions for authorization set forth in Section 3 of this general permit.
- (4) Nothing in this general permit shall relieve the registrant or permittee of other obligations under applicable federal, state and local law.
- (5) Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under this general permit by the registrant/permittee shall be signed by the registrant/permittee and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”
- (6) The Commissioner reserves the right to make appropriate revisions to this general permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be necessary to adequately protect human health and the environment.
- (7) The Commissioner may order summary suspension of this general permit in accordance with section 4-182 of the General Statutes.

## Section 8. Unauthorized Activities

Any person who or municipality which fails to submit a registration, and that initiates, creates, originates or maintains a discharge of groundwater remediation wastewater into the waters of the state without authorization by this general permit, except those authorized by an individual permit issued under section 22a-430 of the General Statutes, or an authorization issued pursuant to section 22a-6k, of the General Statutes is in violation of the General Statutes, and is subject to injunction and penalties under Chapter 446k of the General Statutes.

Issued Date:       DRAFT      

      DRAFT      

Gina McCarthy  
Commissioner

## Attachment A: Toxic and Hazardous Pollutants and Their Maximum Concentrations

### Volatile Organic Compounds:

<b>Combined Total of Chlorinated Volatile Organic Compounds Shall Not Exceed 1.0 mg/l</b>
<b>Combined Total of All Volatile Organic Compounds Shall Not Exceed 5.0 mg/l</b>
<b>MTBE Shall Not Exceed 1.0 mg/l</b>

### Total Petroleum Hydrocarbons

<b>Total Petroleum Hydrocarbons Shall Not Exceed 100 mg/l</b>
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**EPA Method 200.7 or other methods approved in accordance with 40 CFR 136 which are capable of achieving limits of detection below the levels established below**

Metals	Maximum Concentration
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	1.0 mg/l
Hexavalent Chromium	0.1 mg/l
Cobalt	2.0 mg/l
Copper	1.0 mg/l
Lead	0.1 mg/l

Metals	Maximum Concentration
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
Tin	2.0 mg/l
Vanadium	1.0 mg/l
Zinc	1.0 mg/l

**Base Neutral and Acid Extractables (BNA):**

BNA's (Excludes Phenol and PAHs)	Maximum Concentration
<b>Combined Total of All BNAs Excluding Phenols and PAHs Shall Not Exceed 2.0 mg/l</b>	

**Phenols:**

Phenol	Maximum Concentration
2-sec-Butyl-4,6-dinitrophenol (DNBP)	<b>Combined Total of All Phenols Shall Not Exceed 1.0 mg/l</b>
4-Chloro-3-methylphenol	
2-Chlorophenol	
Cresols(methyl phenols)	
2-Cyclohexyl-4,6-dinitrophenol	
2,4-Dichlorophenol	
2,6-Dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2-Methyl-4,6-dinitrophenol	
2-Nitrophenol	
4-Nitrophenol	
Pentachlorophenol	
Phenol	
Tetrachlorophenols	
Trichlorophenols	
2,4,6-Trichlorophenol	

**Polynuclear Aromatic Hydrocarbons (PAHs):**

PAH	Maximum Concentration
Acenaphthene	<p><b>Combined Total of All PAHs Shall Not Exceed 0.5 mg/l</b></p>
Acenaphthylene	
Anthracene	
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(j)fluoranthene	
Benzo(k)fluoranthene	
Benzo(ghi)perylene	
Chrysene	
Dibenz(a,h)acridine	
Dibenz(a,j)acridine	
Dibenzo(a,h)anthracene	
H-Dibenzo(c,g)carbazole	
Dibenzo(a,e)pyrene	
Dibenzo(a,h)pyrene	
Dibenzo(a,i)pyrene	
Fluoranthene	
Fluorene	
Indeno(1,2,3-cd)pyrene	
3-Methylcholanthrene	
Naphthalene	
Phenanthrene	
Pyrene	

### Organochlorine Pesticides:

Pesticide	Maximum Concentration (µg/l)
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

### Phthalate Esters:

Phthalate Ester	Maximum Concentration
Benzyl butyl phthalate	<p style="text-align: center;"><b>Combined Total of All Phthalates Shall Not Exceed 2.0 mg/l</b></p>
Bis(2-ethylhexyl)phthalate	
Di-n-butyl phthalate	
Diethyl phthalate	
Dimethyl phthalate	
Di-n-octyl phthalate	

**PCBs:**

PCB	Maximum Concentration
PCB-1016	<p><b>Combined Total of All PCBs Shall Not Exceed 1.0 µg/l</b></p>
PCB-1221	
PCB-1232	
PCB-1242	
PCB-1248	
PCB-1254	
PCB-1260	
OTHER PCB's	

*If other PCBs have been used or stored on-site or there is reason to believe they may be present, each compound must be analyzed for in addition to the seven listed PCBs.*

**Chlorinated Herbicides:**

Herbicide	Maximum Concentration
2,4,-D	<p><b>Combined Total of 2,4-D plus 2,4-DB Shall Not Exceed 700 µg/l</b></p>
2,4-DB	
2,4,5-T	10.0 µg/l
2,4,5-TP (Silvex)	10.0 µg/l
Dicamba	10.0 µg/l

**Cyanide: EPA Method 335.1; 335.2**

Cyanide	Maximum Concentration
Total Cyanide	0.6 ma/l
Amenable Cyanide	0.1 mg/l