

National Pollutant Discharge Elimination System

General Permit for the Discharge of Dewatering and Remediation Wastewaters

Permit No.: CTDRGP000

This *General Permit for the Discharge of Dewatering and Remediation Wastewaters* is issued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes. (“Conn. Gen. Stat.”), and Regulations of Connecticut State Agencies (“Regs. Conn. State Agencies”) adopted thereunder, as amended, and Section 402(b) of the Clean Water Act (“CWA”), as amended, 33 USC 1251, et. seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a NPDES permit program. This general permit authorizes discharges to surface and ground waters of the State of Connecticut. Persons shall comply with the applicable federal regulations, 40 CFR Parts 122, 123, 127, 136, which are hereby incorporated into this general permit, as is fully set forth herein. Persons shall comply with all conditions of this permit including the following sections of the Regs. Conn. State Agencies which have been adopted pursuant to Section 22a-430 of the Conn. Gen. Stat. and are hereby incorporated into this permit.

This permit becomes effective [EFFECTIVE]. This permit and the authorization to discharge shall expire five (5) years from the effective date. This permit expires on [EXPIRATION].

Issued: [To be determined]

Emma Cimino
Deputy Commissioner

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General Permit for the Discharge of Dewatering and Remediation Wastewaters

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General Permit for the Discharge of Dewatering and Remediation Wastewaters

Section 1 Authority

This general permit is issued under the authority of section 22a-430b of the Connecticut General Statutes (“Conn. Gen. Stat.”).

Section 2 Authorization Under This General Permit

2.1 Eligible Activities & Discharges

This General Permit authorizes the discharge of waters, as defined in this permit, from the categories of activities listed below to the surface waters and ground waters of the State of Connecticut, subject to the conditions and limitations of this permit. This general permit authorizes the discharge of:

2.1.1 Dewatering Wastewater

The discharge of dewatering wastewaters, as defined by this general permit, that are known or suspected to contain pollutants of concern to a surface or ground water.

2.1.2 Remediation Wastewater

The discharge of remediation wastewaters, as defined by this general permit that are known or suspected to contain pollutants of concern to a surface water or groundwater.

All other discharges of water, substance or material into the waters of the state other than those specified in this permit are not authorized by this general permit.

Any person or municipality which initiates, creates, originates, or maintains such a discharge shall apply for and obtain authorization under Section 22a-430 of the Conn. Gen. Stat. prior to the occurrence of such discharge.

2.2 Requirements for Authorization

This general permit authorizes the discharges associated with activities listed in Section 2.1 of this general permit provided the following conditions are met:

2.2.1 Wastewater Disposal

DEEP encourages those that initiate and maintain a discharge of dewatering or remediation wastewaters to make best efforts to connect to a Publicly Owned Treatment Works (“POTW”) sanitary sewer and limit discharges to surface or ground waters where adverse environmental impacts may occur. For any discharge located at a site served by POTW sanitary sewer, the discharge shall be directed to a sanitary sewer, unless a qualified professional has determined it to be impracticable (ie. the POTW does not have sufficient capacity, an unauthorized discharge of pollutants, etc.).

The permittee is responsible for retaining appropriate documentation for the chosen disposal option utilized at the facility for as long as the activity is authorized under the general permit. Failure to connect to an available POTW may result in the termination of permit coverage under this general permit. Wastewater disposal options resulting in a discharge to a surface

or ground water shall be the last and final resort. DEEP expects the permittee to evaluate all disposal options under the guidance of a qualified professional and retain documentation of such evaluation.

Should the sanitary sewer become an available option, the permittee must obtain permit coverage under the appropriate permit, and the discharge of wastewater must be connected to the POTW within two (2) years, unless a qualified professional has determined it to be impracticable. The permittee shall retain records of such connection in accordance with the record keeping requirements of the general permit.

2.2.2 Application

For discharges requiring an application consistent with Section 3.1 of this general permit, a complete application form has been filed with the Commissioner and the Commissioner has issued a Notice of Coverage, unless the discharge(s) meet the requirements of Section 3.1.1 of this general permit. All required applications must meet the requirements of Section 3 of this general permit.

2.2.3 Permit Compliance

The discharge from such activity is in compliance with all terms and conditions of this general permit including, but not limited to, the prohibitions described in Section 2.2.4 of this general permit.

2.2.4 Prohibitions

The following activities or discharges are expressly prohibited under this general permit:

- 2.2.4.1 No discharge shall contain, or cause in the receiving surface waters, a visible oil sheen or floating solids; or cause visible discoloration or foaming.
- 2.2.4.2 No discharge shall cause acute or chronic toxicity in the receiving surface water.
- 2.2.4.3 The discharge shall not increase the temperature of the receiving surface water above 85°F, or, in any case, raise the normal temperature of the receiving stream more than 4°F beyond any zone of influence allocated to that discharge in this general permit.
- 2.2.4.4 There shall be no discharge of polychlorinated biphenyl ("PCB") compounds beyond permit limits.
- 2.2.4.5 There shall be no discharge of mercury beyond permit limits.
- 2.2.4.6 The discharge of any sludge and/or bottom deposits from any storage tank or basin.
- 2.2.4.7 Wastewater from washout of concrete.
- 2.2.4.8 Wastewater from washout and/or cleanout of stucco, paint, form release oils, curing compounds, and other construction materials.
- 2.2.4.9 Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance, except as authorized under this general permit.
- 2.2.4.10 Soaps, solvents, or detergents used in vehicle and equipment washing or external

building washdown.

- 2.2.4.11 Toxic or hazardous substances from a spill or other release, except as authorized under this general permit.
- 2.2.4.12 Radioactive material as defined by section 22a-148 of the Conn. Gen. Stat.
- 2.2.4.13 Dilution is expressly prohibited as a form of treatment.
- 2.2.4.14 For sites within the influence of naturally saline waters, where such waters are known or presumed to compose all or part of the groundwaters to be pumped, and the discharge is to be directed to such naturally saline water, the limitation for naturally occurring saline water ions shall be 1.5 times the naturally occurring concentration for such ions provided:
 - a. Groundwater on-site is not known or presumed to be contaminated by such ions as the result of activities that have or are currently occurring at the site,
 - b. Background concentrations for such ions have been verified by monitoring of the surface water beyond any area influenced by the subject site,
 - c. The ion does not cause or contribute to a violation of the toxicity requirements of this general permit, and
 - d. Monitoring for such ions is conducted in the surface water at least once per year with analysis being submitted with the reporting required pursuant to this general permit.
- 2.2.4.15 The following requirements apply to any discharge of treated groundwater remediation wastewater to groundwaters:
 - a. The following minimum separating distances between any point of a disposal system that accepts an authorized discharge, and any potable water supply well shall be as specified in a Notice of Coverage, or:
 - i. for wells yielding less than ten (10) gallons per minute, the minimum separating distance shall be seventy-five (75) feet;
 - ii. for wells yielding ten (10) or more gallons per minute but less than fifty (50) gallons per minute, the minimum separating distance shall be one hundred fifty (150) feet; and
 - iii. for wells yielding more than fifty (50) gallons per minute, the minimum separating distance shall be two hundred (200) feet.
 - b. For discharges directed to groundwaters with a Water Quality Classification designated as Class GAA, or within an aquifer protection area, treatment shall at a minimum incorporate technologies certified by the NSF for the treatment of drinking water for the removal of the pollutants of concern, and be designed for the flows anticipated.

2.2.5 Coastal Area Management and Permitting

Such discharge is consistent with all applicable goals and policies in section 22a-92 of the Conn. Gen. Stat. and will not cause adverse impacts to coastal resources as defined in section 22a-93 of the Conn. Gen. Stat.

2.2.6 Endangered and Threatened Species

Such discharge does not threaten the continued existence of any species listed pursuant to section 26-306 of the Conn. Gen. Stat. and will not result in the destruction of adverse modification of habitat designated as essential to such species.

2.2.7 Aquifer Protection

Such discharge, if located within an aquifer protection area as mapped under section 22a-354b of the Conn. Gen. Stat., complies with regulations adopted pursuant to section 22a-354i of the Conn. Gen. Stat.

2.2.8 Conservation and Preservation Restrictions

Such discharge, if located within a conservation or preservation restriction area, complies with section 47-42d of the Conn. Gen. Stat. Proof of written notice to the holder of such restriction or a letter from the holder of such restriction verifying that the proposed activity is in compliance with the terms of the restriction shall be retained on site.

2.2.9 Wild and Scenic Rivers Act

Such discharge must be consistent with the Wild and Scenic Rivers Act (16 U.S.C. 1271-1287) for those river components and tributaries which have been designated as Wild and Scenic by the United States Congress. Further, such activity must not have a direct and adverse effect on the values for which such river designation was established.

2.2.10 Antidegradation Standards

Such discharge is consistent with the Antidegradation Standards of section 22a-426 of the Regs. Conn. State Agencies.

2.2.11 New or Increased Discharges to High Quality Waters

On or before thirty (30) days prior to the commencement of a new or increased discharge to High Quality Waters from its activity, the permittee must document compliance with the Connecticut Antidegradation Implementation Policy in the Water Quality Standards, as amended.

2.2.12 New or Increased Discharges to Impaired Waters

A discharge is not authorized to an impaired waterbody that is listed in the most recent Connecticut Integrated Water Quality Report pursuant to Clean Water Act section 303(d) and 305(b) unless the Permittee provides to the Commissioner the following documentation demonstrating that the discharge is not expected to cause or contribute to an exceedance of the water quality standard(s) that caused the impairment:

- 2.2.12.1 For discharges of pollutants which cause or contribute to the impairment of a water body segment without an established Total Maximum Daily Load (“TMDL”), the Permittee must provide data and other technical information to the Commissioner sufficient to demonstrate that the discharge of the pollutant identified as an indicator of the impairment will meet in-stream water quality standards and criteria at the point of

discharge to the waterbody.

- 2.2.12.2 For discharges to waterbody segments impaired for Aquatic Life Uses, discharges shall not contain concentrations of any pollutants with a Water Quality Criteria (“WQC”) identified in Table 3 of section 22a-426-9 of the Regs. Conn. State Agencies in concentrations greater than the more restrictive of the chronic aquatic life criteria or applicable human health criteria.
- 2.2.12.3 For discharges to waters with an established TMDL, the Commissioner must determine if there are sufficient allocations in the TMDL to allow the discharge. The Commissioner may authorize the discharge with additional permit conditions or compliance.

2.3 Geographic Area

This general permit applies throughout the State of Connecticut.

2.4 Effective Date and Expiration Date of this General Permit

This general permit is effective on *[insert effective date]* and expires (5) five years after the issuance date. The general permit may be administratively continued in effect until DEEP has reissued the permit in accordance with the Conn. Gen. Stat. and the Regs. Conn. State Agencies. If the permit is administratively continued, Permittees are required to comply with all permit terms and conditions, including the monitoring requirements and submittal of reports at their original frequency during the continuance of the permit.

2.5 Effective Date of Authorization

2.5.1 Short-Term Underground Storage Tank (UST) Discharges

For short-term discharges, as defined by this general permit and occurring as a result of petroleum Underground Storage Tank replacement, the date of authorization is the day the discharge is initiated.

2.5.2 Emergency Discharges

For emergency discharges, as defined by this general permit, the date of authorization is the day the discharge is initiated. Emergency discharges lasting more than thirty (30) calendar days must file a application with the Commissioner.

2.5.3 Authorization to Discharge for New Applicants

An activity that is not authorized to discharge under the *General Permit for the Discharge of Groundwater Remediation Wastewater*, issued on February 17, 2023, (“New Applicants”) will be authorized to discharge under the terms and conditions of this general permit on the issuance date of the Notice of Coverage from the Commissioner.

2.5.4 Authorization to Discharge for Existing Discharges

Discharges of dewatering or remediation wastewaters authorized under the *General Permit for the Discharge of Groundwater Remediation Wastewater*, issued on February 17, 2023, that continue to be meet the eligibility criteria under this general permit shall have continued authorization to discharge under the terms and conditions of this general permit, provided the Permittee is in compliance with the terms and conditions of this general permit and a complete application for this general permit is submitted to the Commissioner in accordance

with Section 3 of this general permit on or before ninety (90) days after the effective date of this general permit, until the Commissioner makes a final determination regarding such application.

2.6 Transition to and from an Alternative Permit

No person shall operate or conduct an activity resulting in a discharge authorized by both an individual permit or an alternative general permit, and this general permit. The requirements for transitioning authorization are as follows:

2.6.1 Transition from an Individual Permit to Authorization under this General Permit

If an activity meets the requirements of authorization of this general permit and such operation or activity is presently authorized by an individual permit, the permittee may seek a modification to the permit to exclude such operation or activity from the individual permit or if the operation or activity is the sole operation or activity authorized by such permit, the permittee shall surrender its permit in writing to the Commissioner. In either event, such permittee's individual permit shall continue to apply and remain in effect until authorization of such operation or activity under this general permit takes effect.

2.6.2 Transition from Authorization under this General Permit to an Individual Permit

If an activity or operation that is authorized under this general permit and the Commissioner subsequently issues an individual permit for the same activity, then on the date any such individual permit is issued by the Commissioner, the authorization issued under this general permit shall automatically expire.

2.6.3 Transition from this General Permit to the SIU General Permit

Activities discharging to a POTW that are authorized under the *General Permit for the Discharge of Groundwater Remediation Wastewater*, issued on February 17, 2023, that subsequently become eligible to obtain coverage under the *General Permit for the Discharge of Wastewaters from Significant Industrial Users* ("SIU"), must register for and obtain coverage under the SIU general permit by March 2026. Should the complete application be submitted timely, the Permittee shall have continued authorization to discharge under the terms and conditions of the SIU general permit, provided the Permittee is in compliance with the terms and conditions of this general permit.

Permittees are encouraged to visit the CT DEEP Pretreatment Program website for additional information: <https://portal.ct.gov/deep-industrial-pretreatment>

DEEP will deny any application for authorization under this general permit for any activity that is also eligible for coverage under the SIU general permit. Such activities must register for and obtain coverage under the SIU general permit, as they are ineligible for authorization under this general permit.

Section 3 Application Requirements

3.1 Who Must File an Application

A complete application shall be filed on forms prescribed and provided by the Commissioner in accordance with the permit terms and conditions of this general permit. Discharges or activities taking place at more than one (1) site may not be consolidated on one (1) application form.

If the source or activity generating the discharge for which an application is required to be submitted under this general permit is owned by one person or municipality (the owner) 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 application form required by this general permit and maintain compliance with the terms and conditions of this general permit.

3.1.1 Automatic Coverage - No Application Required

An application is not required for discharges occurring as a result of emergency discharges and short-term petroleum UST replacement lasting thirty (30) consecutive days or less. Emergency and short-term petroleum UST discharges lasting more than thirty (30) days must file a application with the Commissioner.

An application is also not required for discharges from a building used solely as a single-family residence.

3.1.2 Application Required

Any person or municipality that initiates, creates, originates, or maintains an eligible activity and discharge under this general permit, excluding the discharges referenced in Section 3.1.1 of this general permit, must file a timely and complete application with the Commissioner which, at a minimum, meets the requirements of Section 3.4 of this general permit and includes the applicable fee(s).

3.1.3 Authorization to Discharge for Existing Permittees

Facilities with existing permit coverage authorized under the *General Permit for the Discharge of Groundwater Remediation Wastewater*, issued on February 17, 2023, are eligible for continued permit coverage under the general permit on an interim basis, provided a complete application is filed with the Commissioner on or before ninety (90) calendar days from the effective date of this general permit. Authorization to discharge under this general permit may be terminated ninety-one (91) days after the effective date of the general permit if the permittee fails to submit a complete application for the existing discharges in accordance with the requirements of this general permit.

3.1.4 Applicants without Existing Authorization to Discharge

New Applicants without existing authorization to discharge shall submit a complete application for this general permit to the Commissioner in accordance with the requirements of this general permit one hundred eighty (180) days prior to the date of discharge. Such discharge is authorized under this general permit on the date the Notice of Coverage is issued by the Commissioner.

3.2 Application Fees

3.2.1 The application fee is \$1,250.

3.2.2 Municipalities will receive a 50% discount on fees.

3.2.3 The application fee shall be paid to the Department of Energy and Environmental Protection.

3.2.4 An application shall not be deemed complete, and no discharge shall be authorized by this general permit unless the application fee has been paid in full.

3.2.5 The application fee is non-refundable.

3.3 Application Fees for Notice of Change

A fee of \$1,000.00 shall be submitted with a complete Notice of Change form for permit modifications.

3.4 Contents of the Application

An application shall be filed on forms prescribed and provided by the Commissioner and shall include, but not be limited to, the requirements in this section of this general permit, as applicable.

3.4.1 Applicant Information

3.4.1.1 Legal name, mailing address, telephone number, and e-mail address of the Applicant. If the Applicant is an entity transacting business in Connecticut and is required to register with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.

3.4.1.2 Legal name, mailing address, telephone number, and e-mail address of the owner of the property on which the subject activity and discharge(s) are to take place.

3.4.1.3 Legal name, mailing address, telephone number, and e-mail address of the Applicant's attorney or other representative, if applicable.

3.4.1.4 Legal name, mailing address, telephone number, and e-mail address of any consultant(s) or engineer(s) retained by the Applicant to prepare the application or to design or construct the subject activity.

3.4.1.5 Legal name, telephone number, and e-mail address of the site contact person.

3.4.2 Site information

3.4.2.1 Name, site address, and mailing address of the site with respect to which the application is submitted.

3.4.2.2 A detailed description of the process or activity generating each discharge and the type(s) of wastewater to be discharged.

3.4.2.3 Four-digit Standard Industrial Classification ("SIC") codes for the primary activity(ies)

occurring at the registered site.

- 3.4.2.4 Six-digit North American Industry Classification System (“NAICS”) codes for the primary activity(ies) occurring at the registered site.
- 3.4.2.5 Site Plan & Map: A plan of the site ("site plan") showing north meridian, property boundaries, all buildings, adjacent water bodies and roads, the location of the subject activity, monitoring location(s), and discharge location(s).
- 3.4.2.6 A statement whether the subject discharge will take place within ¼-mile of any public or private drinking water well.
- 3.4.2.7 A statement whether the activity will be located on federally recognized Indian lands.
- 3.4.2.8 A statement whether the site is located within the coastal boundary or coastal area as delineated on DEEP approved coastal boundary maps. If the site is within a coastal boundary, a Coastal Consistency Review Form must be submitted with the Application as Attachment A.
- 3.4.2.9 A statement whether the site is located within a mapped Level A or B Aquifer Protection Area as defined in Sections 22a-354a through 22a-354bb of the Conn. Gen. Stat.
- 3.4.2.10 A statement whether or not the subject discharge will take place at a site on the National Priority List, under CERCLA, that has been used for the disposal of hazardous materials or is subject to the reporting requirements of sections 22a-6u or 22a-134 of the General Statutes.
- 3.4.2.11 *Place holder.*

3.4.3 Discharge Specific Information

3.4.3.1 For each discharge outfall:

- a. Unique discharge location identifier (ie. discharge serial number), as defined by this general permit.
- b. The latitude and longitude for each discharge point.
- c. Name of the receiving water body.
- d. The waterbody classification of the receiving surface water body, whether it is listed as impaired in the most recent Connecticut Integrated Water Quality Report pursuant to Clean Water Act section 303(d) and 305(b), the cause of impairment, and name of TMDL, if applicable.
- e. Describe how water will be conveyed to the discharge point (e.g., hose, pump, controlled release).

- f. Identify the proposed discharge location (e.g., storm drain, land surface, vegetated area, surface water, or ground water).

3.4.4 Discharge Information

For each discharge, include:

- 3.4.4.1 Maximum daily total flow in gallons per day and the maximum instantaneous flow rate in gallons per minute for each discharge.
- 3.4.4.2 The method of flow measurement of each discharge (i.e. estimation, flow meter, etc.).
- 3.4.4.3 A description of the duration of each discharge (batch or continuous, hours per day).
- 3.4.4.4 Monitoring location where representative samples will be collected.
- 3.4.4.5 An estimated date of when each discharge began or will begin.
- 3.4.4.6 A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 4 of this general permit and those substances listed in Appendix B Tables II, III and V or Appendix D of section 22a-430-4 of the Regs. Conn. State Agencies.

3.4.5 Plans and Specifications of Wastewater Treatment System

- 3.4.5.1 Provide a description of all collection, treatment, and disposal systems proposed or installed to collect, treat, and dispose of the wastewaters which are the subject of this application; and plans and specifications of such systems. Include a statement indicating whether any such activities on the site will employ air stripping. If applicable, the plans and specifications of such system shall be prepared by and certified by a professional engineer licensed in the state of Connecticut, unless such system is a pre-engineered system.
- 3.4.5.2 An accurate and detailed description of any wastewater treatment processes, such as neutralization, filtration, or precipitation of solids or metals, etc. which the Applicant utilizes or will utilize to achieve compliance with any of the effluent limits specified in this general permit.

3.4.6 3.4.6 Monitoring Plan

For all discharges requiring monitoring, a Monitoring Plan must be submitted which specifies for each discharge the:

- monitoring location(s).
- sample type.
- parameters to be monitored.
- frequency of monitoring.
- method of flow measurement.
- record keeping and reporting requirements.

3.4.7 Wastewater Screening

- 3.4.7.1 An initial screening analysis shall be conducted prior to registering for authorization under this general permit. Screening analysis results shall be submitted on forms provided by the Commissioner with the application form. Screening analysis required

by this general permit shall conform to the following:

- Samples shall consist of representative grab samples and comply with approved sampling and analytical methods in accordance with 40 CFR 136.
- Name, address, and telephone number of the laboratory(ies) used for the associated analyses.
- A copy of the lab report associated with the analytical results provided.

3.4.7.2 Samples shall be representative of the untreated waste stream(s), sampled and analyzed in accordance with Section 4.11 of this general permit to determine the concentration or level therein of the following parameters:

Physical Parameters

Parameter	Units
pH	S.U.
Temperature	°F
Total Settleable Solids	mg/l
Total Suspended Solids (TSS)	mg/l
Total Dissolved Solids (TDS)	mg/l

Nutrients

Parameter	Units
Ammonia	mg/l
Total Nitrogen	mg/l
Nitrate	mg/l
Nitrite	mg/l
Total Kjeldahl Nitrogen (TKN)	mg/l
Total Phosphorus	mg/l
Orthophosphate	mg/l

Metals

Parameter	Units
Total Barium	ug/l
Total Boron	ug/l
Total Cadmium	ug/l
Total Cobalt	ug/l
Total Copper	ug/l
Total Lead	ug/l
Total Iron	ug/l
Total Magnesium	ug/l
Total Mercury	ug/l
Total Thallium	ug/l
Total Tin	ug/l

Total Vanadium	ug/l
Total Zinc	ug/l

Organic Compounds

Parameter	Units
Total Volatile Organic Compounds (VOCs)	ug/l
Total Petroleum Hydrocarbons (TPH)	mg/l

3.4.7.3 If any of the following criteria are met, the applicant shall perform screening and submit the results with the application.

- a. If raw untreated wastewater is reasonably expected to be impacted by petroleum compounds other than gasoline, samples of untreated wastewater shall also be analyzed for Polynuclear Aromatic Hydrocarbons (PAHs).
- b. If raw untreated wastewater is reasonably expected to be impacted by gasoline, the samples of untreated wastewater shall be analyzed for gasoline oxygenates, including TBA, MTBE, TAME, and related compounds known to be added to the gasoline released. Analysis shall be by EPA Method 624, or other methodology approved pursuant to 40 CFR 136.
- c. If any pollutant listed in Appendix B, Tables II, III, IV, or V of section 22a-430-4 of the Regs. Conn. State Agencies; Appendix D of section 22a-430-4 of the Regs. Conn. State Agencies; or any other pollutant that could cause or result in pollution, is reasonably known to have been handled, stored, released, or disposed of at or adjacent to the site where the subject wastewater originates, the subject wastewater shall also be analyzed to determine the concentration of such pollutant.
- d. If any pollutant identified as an emerging contaminant, as defined in this general permit, is reasonably known or suspected to be present, or to have been handled, stored, released, or disposed of at the site where the subject wastewater originates, the subject wastewater shall also be analyzed to determine the concentration of such emerging contaminant(s) using an approved 40 CFR 136 method or a method specified by DEEP.
- e. If any pollutant, reasonably known or suspected present, may be toxic, hazardous, or detrimental to any use of the watercourse designated pursuant to Connecticut's Water Quality Standards into which such wastewater is or will be discharged, or having the potential to bioaccumulate, bioconcentrate, or adversely affect aquatic life, the subject wastewater shall also be analyzed to determine the concentration of such pollutant.

3.4.7.4 If the authorized discharge is the result of an emergency response, unexpected release, or underground storage tank release, the initial screening analysis shall be submitted within thirty (30) days of start of the discharge.

3.4.7.5 The Commissioner may require in writing that the applicant sample for additional

parameters of concern.

Note: Failure to submit analytical data on the forms prescribed by the Commissioner will result in the rejection of the application.

3.4.8 Line & Process Flow Diagram (Attachment X of the Application)

A line drawing of the water flow through the facility which clearly shows the following:

- a. The intake source (e.g. Well, city water, river).
- b. All points of chemical addition into any treatment units.
- c. Sampling and flow meter locations.
- d. All separate production operations with intake and discharge points of each operation.
- e. Treatment units with intake and discharge points of each unit.
- f. A water balance that indicates approximate average and maximum daily flows at intake and discharge points of all separate production operations, treatment units and between processes.
- g. Each process tank, its workflow position, size, contents, ultimate disposal location.
- h. Countercurrent rinsing and the direction of rinsing.

Note: Failure to submit a complete line and process flow diagram will result in the rejection of the application.

3.4.9 Erosion and Sediment Controls (Attachment X of the Application)

For discharges to ground water, a detailed description of all erosion and sediment controls and energy dissipation structures to be used in connection with the subject remedial measures.

3.4.10 Ground Water Monitoring Program

For ground water discharges covered under an approved Ground Water Monitoring Program, provide the approved monitoring plan, all amendments, and the corresponding ground water monitoring results.

3.4.11 Subscriber Agreement

A completed Connecticut DEEP NetDMR Subscriber Agreement.

3.4.12 Applicant Certification

The Applicant submits to the Commissioner a written certification which, at a minimum, complies with the following requirements:

- 3.4.12.1 The signatory requirement for the Applicant must comply with Section 22a-430-

3(b)(2)(A) of the Regs. Conn. State Agencies and Section 6.23 of this general permit.

3.4.12.2 The Applicant has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be covered under such general permit:

- a. All application information provided in accordance with section 3.4 of such general permit.
- b. The facility, based on a visual site inspection.
- c. Compliance records.
- d. All wastewater collection and treatment systems and monitoring equipment, including any plans and specifications, operating records and any deep approvals regarding such wastewater collection and treatment systems and monitoring equipment.

3.4.12.3 The Applicant has, based on the review described in Section 3.4.12.2 of this general permit, made an affirmative determination to:

- a. comply with the terms and conditions of this general permit.
- b. maintain compliance with all plans and documents prepared pursuant to this general permit.
- c. properly operate and maintain all wastewater collection and treatment systems and monitoring equipment in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution.
- d. Such applicant certifies to the following statement:

"I hereby certify that I am making this certification in connection with a application under this general permit, submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that such activity is eligible for authorization under such permit. I certify that the application filed pursuant to this general permit is on complete and accurate forms as prescribed by the Commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3.4.12.2. of this general permit, and based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination required in accordance with Section 3.4.12 of this general permit and that my signing this certification constitutes conclusive evidence of my having made such affirmative determination.

I certify that our facility does not use products or chemicals that may result in a discharge of mercury.

I understand that the application filed in connection with such general permit may be denied, revoked or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I understand that the certification made pursuant to Section 3.4.13. of this general permit may be subject to an audit by the Commissioner in accordance with section 22a-430b of the General Statutes, and that I will be required to provide additional information as may be requested in writing by the Commissioner in connection with such audit, and the application filed in connection with such general permit may be denied, revoked or suspended as a result of such audit. As part of such audit, I understand the Commissioner may require that any information prepared in accordance with this general permit be independently certified by a Professional Engineer in accordance with this general permit and that such independent certification shall be at the applicant's expense.

I understand that the reasonable cost of any such audit that reveals that a false certification was submitted to the Commissioner may be charged to the permittee for this general permit for which such certification was made. I also understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Conn. Gen. Stat. and any other applicable law.”

3.4.13 Qualified Professional Certification:

3.4.13.1 The application must include a written certification which, at a minimum, complies with the following requirements:

- a. Such certification was signed by a Qualified Professional as defined in this general permit.
- b. Such certification is not the subject of an audit as described under section 22a-430b of the Conn. Gen. Stat..
- c. The Qualified Professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under this general permit:
 - i. all application information provided in accordance with Section 3 of this general permit.
 - ii. the facility, based on a site inspection.
 - iii. compliance records.
 - iv. all wastewater collection, treatment systems, and monitoring equipment, including any plans and specifications, operating records and any DEEP approvals required for such systems.
- d. The Qualified Professional signing the certification has made an affirmative determination, based on the review described in Section 3.4.13.1.c. of this general permit, that any proposed treatment or Best Management Practices are adequate to

assure that the activity to be authorized under this general permit will comply with the terms and conditions of such general permit and all wastewater collection and treatment systems and monitoring equipment:

- i. have been designed and installed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable,
- ii. will function properly as designed based on visual inspection, compliance and operating records, and
- iii. are adequate to ensure compliance with the terms and conditions of this general permit.

Such Qualified Professional certifies, provided it is true and accurate, to the following statement:

"I hereby certify that I am a Qualified Professional as defined in the General Permit for the Discharge of Dewatering and Remediation Wastewater. I am making this certification in connection with a application under such general permit, submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3.4.13.1.c. of this general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination required in accordance with Section 3.4.13.1.d. of this general permit and that my signing this certification constitutes conclusive evidence of my having made such affirmative determination. I understand that this certification may be subject to an audit by the Commissioner in accordance with section 22a-430b of the General Statutes, and I agree to cooperate with the Commissioner should such an audit be required, including, but not limited to providing information as may be requested in writing by the Commissioner in connection with any such audit. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Conn. Gen. Stat. and any other applicable law."

3.4.14 Preparer Certification

Any other individual or individuals responsible for preparing the application certifies to the following statement:

"I hereby certify that I am making this certification in connection with an application under the Comprehensive General Permit for Discharges to Surface Water and Ground Water, submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that such activity is eligible for authorization under such permit. I certify that the application filed pursuant to this general permit is on complete and accurate forms as prescribed by the Commissioner

without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3.4.12.2 of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I understand that the application filed in connection with such general permit may be denied, revoked or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Conn. Gen. Stat. and any other applicable law.”

Any other individual or individuals responsible for preparing the application certifies to the following statement:

“I hereby certify that I am making this certification in connection with a application under this general permit, submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that such activity is eligible for authorization under this general permit. I certify that the application filed pursuant to this general permit is on complete and accurate forms as prescribed by the Commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3.4.12.2 of this general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I understand that the application filed in connection with such general permit may be denied, revoked, or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Conn. Gen. Stat. and any other applicable law.”

3.4.15 Request an Amendment or Modification of Existing Permit Coverage

- 3.4.15.1 A Notice of Change form shall be submitted by the Permittee to DEEP on the Notice of Change form prescribed by the Commissioner if any of the following conditions are met:
- a. To correct inaccurate or misleading information previously submitted to DEEP.
 - b. Updating contact information.
 - c. Modifying the wastewater description.
 - d. A change to the nature of the activity generating the discharge.
 - e. The introduction of a new source of dewatering or remediation water.

- f. The introduction of a new pollutant that was not present in the discharge at the time of application.
- g. An increase in the maximum daily flow.
- h. A relocation of the discharge to a different receiving waterbody.

Discharges or activities associated with such modifications may not occur without prior written approval from the Commissioner in the form of a Permit Amendment.

3.4.15.2 A Notice of Change must, at a minimum, contain:

- a. A narrative of the proposed modification(s), how it is expected to affect the authorized discharge(s), supporting documentation and analytical data, if applicable, process flow diagrams, a timeline for implementation, and the expected completion of the proposed change(s). Additional information may be requested to complete the review of the request.
- b. A new certification signed by a qualified professional as specified in Section 3.4.13. of this general permit. The new certification must confirm that the wastewater treatment system remains adequate to consistently meet the permit limits and conditions, as applicable.
- c. A detailed explanation of any changes made to or proposed for the existing wastewater collection or treatment system or its method of operation. Explain the need for implementing each change and the anticipated effects of those changes that will have on the authorized discharge(s).
- d. For any material substitutions or additional new treatment chemical(s), identify all new substances that include, or may break down into, pollutants listed in Appendix B or D of section 22a-430-4 of the Regs. Conn. State Agencies that can be expected to be present in the authorized discharge(s) as a result of the modification.

3.4.16 Treatment System Modification

- 3.4.16.1** This general permit authorizes the permittee to expand or alter the existing wastewater collection or treatment system in order to meet permit limits and conditions. The authorization does not relieve the industrial user of the obligation to meet any other permit condition or effluent limit contained within this general permit.

The permittee shall notify the Commissioner at least thirty (30) days prior to expanding or significantly altering its wastewater collection or treatment system, or its method of operation. Treatment system modifications do not require further DEEP approval, unless determined by the Commissioner. Notification shall be submitted via email to at DEEP.IndustrialWastewaterGeneralPermits@ct.gov and clearly detail all modifications made, and include the following information:

- a. An updated treatment system line diagram.

- b. A new certification signed by a qualified professional as specified in Section 3.4.13. of this general permit. The new certification must confirm the modified wastewater treatment system is adequate to consistently meet the permit limits and conditions, as applicable.

3.5 Where to Submit an Application or Notice of Change

3.5.1 For Applications and Notices of Change:

- 3.5.1.1 Submit a Transmittal Form to the Commissioner at DEEP.centralpermits@ct.gov or mailing address:

**Central Permit Processing Unit
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127**

- 3.5.1.2 Upon receipt and confirmation thereof, the Applicant shall submit required fees as prescribed.
- 3.5.1.3 The completed application or Notice of Change, together with all required documentation and supporting materials, shall be submitted to the Commissioner electronically.

Note: Applicants are advised to consult the Industrial Water Permitting Program's website for detailed instructions and guidance regarding application submission.

3.6 Confidential Business Information

If the Applicant claims that certain elements of their application constitute a trade secret or are otherwise exempt from the disclosure requirements of the state Freedom of Information Act (Section 1-210 et seq of the Conn. Gen. Stat., also called "FOIA") as specified in that Act, they shall follow the procedures provided in the application instructions for this general permit regarding information subject to FOIA requirements. The process of complying with the FOIA requirements does not exempt the Applicant from the application deadlines specified within this general permit.

3.7 Additional Information

The Commissioner may require an applicant or permittee 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. A response to the Commissioner's request for additional information shall be submitted to DEEP within fifteen (15) days of the Commissioner's request, unless a different submittal date is provided.

If such discharge is directed to surface waters with a Water Quality Classification designated as Class AA or any tributary thereof, or an Aquifer Protection Area, a copy of the application must

be filed with the appropriate water utility and the Department of Public Health, Drinking Water Section via email at DPH.SourceProtection@ct.gov

3.8 Action by Commissioner

3.8.1 Approval with Permit Conditions

The Commissioner may approve a Application or Notice of Change with or without additional permit conditions. If the Commissioner approves a Application with conditions, the Permittee shall be bound by such conditions as if they are part of this general permit.

3.8.2 Rejection or Denial

The Commissioner may reject or deny an application if it is determined that it is incomplete, it does not satisfy the application requirements in this general permit, or if more than fifteen (15) days have elapsed since the Commissioner requested the Applicant submit additional information to determine eligibility for permit coverage or for authorization to discharge under this general permit. Any application refiled after such a rejection shall be accompanied by the applicable fee.

The Commissioner may reject or deny an application if he or she finds that the subject activity is inconsistent with the “Requirements for Authorization” of this general permit, or for any other reason provided by law.

3.8.3 Require Individual Permit

The Commissioner may require that a Applicant obtain an individual permit for any discharge authorized by this permit in accordance with Section 22a-430b(c) of the Conn. Gen. Stat.

3.8.4 Notice to Applicant

Denial, rejection, or revocation of an application or permit coverage under this subsection shall constitute notice to the applicant that the subject activity may not lawfully be conducted or maintained without the issuance of an individual permit in accordance with Section 22a-430 of Regs. Conn. State Agencies.

3.8.5 Activity Inconsistent with Authorization Requirements

The Commissioner may reject or deny a Application if he or she finds that the subject activity is inconsistent with the “Requirements for Authorization” of this general permit, or for any other reason provided by law.

3.8.6 Notice in Writing

Approval, rejection, denial, revocation of an application or permit coverage shall be provided to the Applicant in writing and state the reasons for such rejection or disapproval.

3.8.7 Termination of Discharge

For discharges that required the submittal of an application Notice of Termination form shall be submitted to the Commissioner on a prescribed form within fourteen (14) days of the cessation of the discharge. Discharges lasting thirty (30) days or less must submit all monitoring data with the Notice of Termination. Failure to submit the Notice of Termination may result in enforcement.

Notices of Termination shall be electronically mailed to:
DEEP.IndustrialNPDESCompliance@ct.gov

The authorization to discharge under this permit terminates at midnight of the day that the permittee is notified that their complete NOT has been processed. Until the permittee terminates permit coverage, all permit terms and conditions remain in effect.

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Section 4 Conditions of This General Permit

The permittee shall at all times continue to meet the requirements for authorization set forth in Section 2 of this general permit. In addition, a permittee shall assure that activities authorized by this general permit are conducted in accordance with the following conditions.

4.1 Discharge to Class AA

If the discharge is directed to a waterbody or tributary to any waterbody that contributes to a source of public drinking water, treatment shall at a minimum incorporate technologies certified by the NSF for the treatment of drinking water for the removal of the pollutants of concern, and be designed for the anticipated flows.

4.2 Cessation of Discharge

The discharge shall cease if the treatment system is not operating as necessary to maintain compliance with all effluent limitations.

4.3 Numeric Effluent Limits and Permit Conditions

Wastewater discharges to surface and ground waters under the authority of this general permit shall not exceed and shall otherwise conform to the specific terms and conditions listed in Tables A through D below:

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Table A: Effluent Limits for Surface and Ground Water Discharges

Parameter	Units	Instantaneous Effluent Limit or Range	Minimum Level ²	NetDMR Parameter Code
<i>Aquatic Toxicity, Daphnia, Pulex¹</i>	%	90	Not applicable	TAA3D
<i>Aquatic Toxicity, Pimephales promelas¹</i>	%	90	Not applicable	TAA6C
<i>Aquatic Toxicity, Mysidopsis bahia¹</i>	%	90	Not applicable	
<i>Aquatic Toxicity, Menidia beryllina¹</i>	%	90	Not applicable	
Ammonia, as Nitrogen	mg/l	1.5	Not applicable	00610
Base Neutral and Acid Extractables (BNA)	ug/l	10.0	Not applicable	76030
Chlorinated Herbicides	ug/l	ND	Not applicable	NA
Mercury, Total	ug/l	0.05	0.05	71900
MTBE	ug/l	70.0	5.0	22417
Organochlorine Pesticides	ug/l	ND	Not applicable	NA
PCBs ⁴	ug/l	0.1	1.0	51867
pH ³	ug/l	6.0-8.5	Not applicable	61942/61941
Phenols	ug/l	5.0	Not applicable	46000
Phthalate Esters	ug/l	100	Not applicable	NA
Polynuclear Aromatic Hydrocarbons (PAHs)	ug/l	5.0	10.0	22456
Total Petroleum Hydrocarbons	mg/l	5.0	Not applicable	
Total Suspended Solids (TSS)	mg/l	30.0	Not applicable	00530
Total Volatile Organic Compounds (VOCs)	ug/l	10.0	Not applicable	51415

Footnotes:

¹ The results of the Toxicity Tests are submitted in % survival in an undiluted sample of the effluent.

² See Section 4.15 for additional information on minimum levels.

³ The pH of the discharge shall not be less than 6.0 or more than 8.5 S.U.

⁴ No individual sample for PCB shall exceed 0.00017 ug/l.

Remarks:

1. Samples taken for the purpose of determining compliance with the effluent limitations and monitoring requirements listed in this general permit shall be grab samples.
2. The effluent limits for all metals are total recoverable metals unless otherwise indicated.
3. See Section 4.10 for monitoring frequency.
4. See Section 4.17 for reporting frequency.

Table B: Site Specific Effluent Limits for Discharges to Class B and GB Receiving Waters

Parameter	Units	Instantaneous Effluent Limit or Range				Minimum Level ¹	NeTDMR Parameter Code
		IWC 0 to 1	IWC >1 to 10	IWC >10 to 25	IWC >25 to 100		
Arsenic, Total	ug/l	0.021	0.021	0.021	0.021	5.0	01002
Barium, Total	ug/l	2,000	1,801	720	180	Not applicable	01007
Beryllium, Total	ug/l	40.4	4.04	1.61	0.404	1.0	01012
Boron, Total	ug/l	589,540	58,954	23,581	5,895	Not applicable	82057
Cadmium, Total	ug/l	10.2	1.02	0.409	0.102	0.2	01027
Chlorine, Total Residual	ug/l	901	90.1	36.0	9.01	20.0	50060
Chromium, Total	ug/l	1,000	344	138	34.4	5.0	01034
Chromium, Hexavalent	ug/l	100	79.8	32.0	7.98	10.0	01032
Cobalt, Total	ug/l	1,970	197	78.6	19.7	Not applicable	01037
Copper, Total	ug/l	745	74.5	29.8	7.45	3.0	01042
Cyanide, Total	ug/l	426	42.6	17.0	4.26	10.0	00720
Lead, Total	ug/l	98.3	9.83	3.93	0.983	5.0	01051
Manganese, Total	ug/l	7,650	765	306	76.5	Not applicable	00927
Nickel, Total	ug/l	1,000	237	94.7	23.7	5.0	01067
Selenium, Total	ug/l	409	40.9	16.4	4.09	5.0	01147
Silver, Total	ug/l	50.8	5.08	2.03	0.508	1.0	01077
Thallium, Total	ug/l	146	14.6	5.84	1.46	5.0	01059
Tin, Total	ug/l	2,000	1,474	590	147	Not applicable	01102
Vanadium, Total	ug/l	2,210	221	88.4	22.1	Not applicable	01087
Zinc, Total	ug/l	1,000	324	130	32.4	20.0	01092

Footnotes:

¹ See Section 4.15 for additional information on minimum levels.

Remarks:

1. Samples taken for the purpose of determining compliance with the effluent limitations and monitoring requirements listed in this general permit shall be grab samples.
2. The effluent limits for all metals are total recoverable metals unless otherwise indicated.
3. See Section 4.10 for monitoring frequency.
4. See Section 4.17 for reporting frequency.

Table C: Site Specific Effluent Limits for Discharges to Class A, AA, GA, and GAA Receiving Waters

Parameter	Units	Instantaneous Effluent Limit or Range				Minimum Level ¹	NeTDMR Monitoring Code
		IWC 0 to 1	IWC >1 to 10	IWC >10 to 25	IWC >25 to 100		
Arsenic, Total	ug/l	0.021	0.021	0.021	0.0171	5.0	01002
Barium, Total	ug/l	2,000	1,801	720	180	Not applicable	01007
Beryllium, Total	ug/l	2.39	0.239	0.956	0.0239	1.0	01012
Boron, Total	ug/l	589,540	58,954	23,581	5,895	Not applicable	82057
Cadmium, Total	ug/l	10.2	1.02	0.409	0.102	0.2	01027
Chlorine, Total Residual	ug/l	901	90.1	36.0	9.01	20.0	50060
Chromium, Total	ug/l	1,000	344	138	34.4	5.0	01034
Chromium, Hexavalent	ug/l	100	79.8	32.0	7.98	10.0	01032
Cobalt, Total	ug/l	1,970	197	78.6	19.7	Not applicable	01037
Copper, Total	ug/l	745	74.5	29.8	7.45	3.0	01042
Cyanide, Total	ug/l	426	42.6	17.0	4.26	10.0	00720
Lead, Total	ug/l	98.3	9.83	3.93	0.983	5.0	01051
Manganese, Total	ug/l	7,650	765	306	76.5	Not applicable	00927
Nickel, Total	ug/l	1,000	237	94.7	23.7	5.0	01067
Selenium, Total	ug/l	409	40.9	16.4	4.09	5.0	01147
Silver, Total	ug/l	50.8	5.08	2.03	0.508	1.0	01077
Thallium, Total	ug/l	74.5	7.45	2.98	0.745	5.0	01059
Tin, Total	ug/l	2,000	1,474	590	147	Not applicable	01102
Vanadium, Total	ug/l	2,210	221	88.4	22.1	Not applicable	01087
Zinc, Total	ug/l	1,000	324	130	32.4	20.0	01092

Footnotes:

¹ See Section 4.15 for additional information on minimum levels.

Remarks:

Parameter	Units	Instantaneous Effluent Limit or Range				Minimum Level ¹	NeTDMR Monitoring Code
		IWC 0 to 1	IWC >1 to 10	IWC >10 to 25	IWC >25 to 100		
<div>1. Samples taken for the purpose of determining compliance with the effluent limitations and monitoring requirements listed in this general permit shall be grab samples.</div> <div>2. The effluent limits for all metals are total recoverable metals unless otherwise indicated.</div> <div>3. See Section 4.10 for monitoring frequency.</div> <div>4. See Section 4.17 for reporting frequency.</div>							

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Table D: Site Specific Effluent Limits for Discharges to Marine Receiving Waters

Parameter	Units	Instantaneous Effluent Limit or Range				Minimum Level ¹	NeTDMR Parameter Code
		IWC 0 to 1	IWC >1 to 10	IWC >10 to 25	IWC >25 to 100		
Arsenic, Total	ug/l	0.021	0.021	0.021	0.021	5.0	01002
Barium, Total	ug/l	2,000	1,801	720	180	Not applicable	01007
Beryllium, Total	ug/l	40.4	4.04	1.61	0.404	1.0	01012
Boron, Total	ug/l	589,540	58,954	23,581	5,895	Not applicable	82057
Cadmium, Total	ug/l	100	72.1	28.8	7.21	0.2	01027
Chlorine, Total Residual	ug/l	614	61.4	24.6	6.14	20.0	50060
Chromium, Total	ug/l	1,000	344	138	34.4	5.0	01034
Chromium, Hexavalent	ug/l	100	100	100	34.4	10.0	01032
Cobalt, Total	ug/l	1,970	197	78.6	19.7	Not applicable	01037
Copper, Total	ug/l	393	39.3	15.7	3.93	3.0	01042
Cyanide, Total	ug/l	49.8	4.98	1.99	0.499	10.0	00720
Lead, Total	ug/l	100	66.3	26.5	6.63	5.0	01051
Manganese, Total	ug/l	7,650	765	306	76.5	Not applicable	00927
Nickel, Total	ug/l	671	67.1	26.9	6.71	5.0	01067
Selenium, Total	ug/l	5,813	581.3	232.5	58.1	5.0	01147
Silver, Total	ug/l	94.7	9.47	3.79	0.947	1.0	01077
Thallium, Total	ug/l	146	14.6	5.84	1.46	5.0	01059
Tin, Total	ug/l	2,000	1,474	590	147	Not applicable	01102
Vanadium, Total	ug/l	2,210	221	88.4	22.1	Not applicable	01087
Zinc, Total	ug/l	1,000	448.6	179	44.86	20.0	01092

Footnotes:

¹ See Section 4.15 for additional information on minimum levels.

Remarks:

1. Samples taken for the purpose of determining compliance with the effluent limitations and monitoring requirements listed in this general permit shall be grab samples.
2. The effluent limits for all metals are total recoverable metals unless otherwise indicated.
3. See Section 4.10 for monitoring frequency.
4. See Section 4.17 for reporting frequency.

4.4 Flow

- 4.4.1** The daily flow shall not exceed the more stringent of the maximum daily and average monthly flows specified in the general permit application or the Notice of Coverage letter.
- 4.4.2** The permittee shall maintain at the facility or make available with twenty-four (24) hours of request a record of the total daily flow for each day of discharge and shall report the average daily flow and the maximum daily flow for each month in accordance with this general permit.
- 4.4.3** All discharges shall have flow monitoring equipment installed or implement techniques and devices capable of recording total daily flow. Appropriate flow measurement equipment and methods consistent with accepted scientific and engineering practices shall be selected and used to ensure the accuracy and reliability of measurements of the discharge(s). The equipment shall be installed, calibrated, and maintained in accordance with the manufacturer's requirements to ensure the accuracy of the measurement is consistent with the accepted capability of that type of device.

4.5 Discharges to Waters on the Connecticut Integrated Water Quality Report

Discharges to waters listed in the most recent Connecticut Integrated Water Quality Report of waters listed pursuant to Clean Water Act section 303(d) and 305(b) must comply with the requirements listed in this general permit.

The Commissioner may require additional control measures or permit conditions for discharges to impaired waterbody segments or other sensitive areas.

4.6 Additional Permit Conditions or Effluent Limitations

The Commissioner may develop effluent limits for parameters that do not have a numeric or narrative limit in this general permit on a case-by-case basis if the Commissioner determines it necessary to protect the waters of the state from pollution.

4.7 Pollutant Monitoring

4.7.1 All discharges shall be monitored, and values reported, for the following parameters:

- Maximum daily flow (gpd)
- Monthly average flow (gpd)

- pH (S.U)
- Total settleable solids, (mg/l)
- Total suspended solids (mg/l)
- Total dissolved solids (mg/l)
- Turbidity (NTU)

4.7.2 Discharges as a result of petroleum UST replacement, oil or an oily sheen is visible in the water to be discharged, or the source of the contamination being remediated is petroleum oil, including remediation of a petroleum spill at a residence, shall also be monitor for the following parameters:

- All parameters identified in Section 4.7.1 above
- Lead (mg/l)
- Total Petroleum Hydrocarbons (mg/l)
- PAHs (mg/l)
- Volatile Organic Compounds (total) (mg/l)
- All additional pollutants of concern that are known or suspected present or required by the Commissioner.

4.7.3 Emergency discharges shall monitor for the following parameters:

- All parameters identified in Section 4.7.1.
- All additional pollutants of concern that are known or suspected present as a result of the discharge and required by the Commissioner.

4.7.4 For all other discharges, the permittee shall monitor the discharge for the following:

- All parameters identified in Section 4.7.1 of this general permit,
- All pollutants identified in the screening analysis conducted pursuant to Section 3.4.7. of this general permit or any other analysis of the untreated water at a concentration exceeding a limit contained in Section 4.3. of this general permit,
- All pollutants of concern that are known or suspected present in the untreated wastewater or groundwater, and
- Parameters listed in the Approval of Application.

4.8 Sampling

Samples taken for the purpose of determining compliance with the effluent limitations and monitoring requirements listed in this general permit shall be grab samples.

All samples, except those required to characterize the untreated wastewater, shall be representative of each discrete discharge, collected after all treatment, prior to mixing with any other waters, and before being discharged to waters of the state.

4.9 Startup Procedures

A sample of each discharge must be collected for analytical analysis in accordance with Section 4.7 of this general permit to determine compliance with permit limits upon commencement of the discharge. For discharges lasting longer than a week (7 calendar days), a second sample from each discharge must be collected and analyzed to determine compliance with permit limits during the second week of discharge.

- For dewatering wastewater discharges, startup procedures must be performed each time the discharge is restarted after being discontinued for greater than thirty (30) days for any reason.
- For remediation wastewater discharges, other than intermittent discharges of remediation wastewater, startup procedures must be performed each time the discharge is restarted after being discontinued for greater than twenty-four (24) hours for any reason.
- Intermittent discharges of remediation wastewater, as defined by this general permit are not required to perform the startup procedures with each restart.

4.10 Monitoring Frequency

After completion of the startup procedures, monitoring and analysis to verify compliance with the effluent limitations of this general permit shall be performed according to the following schedule:

Table E Monitoring Frequency

Maximum Daily Flow	Effluent Monitoring Frequency
0 to 5,000 gallons per day	Quarterly
Greater than 5,000 gallons per day	Monthly

If there is no discharge during a calendar month, then a sample must be collected the next month a discharge occurs.

4.11 Sample Analysis

- 4.11.1 All samples shall be collected, handled, and analyzed in accordance with the methods approved under 40 CFR 136, unless another method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5 or as provided in section 22a-430-3(j)(7). To determine compliance with limits and conditions established in this permit, monitoring must be performed using sufficiently sensitive methods approved pursuant to 40 CFR 136 for the analysis of pollutants having approved methods under that part, unless a method is required under 40 CFR subchapter N or unless an alternative method has been approved. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified by the Commissioner.
- 4.11.2 All metals analyses identified in this permit shall use analyses for total recoverable metals as defined in 40 CFR 136 unless otherwise specified.
- 4.11.3 Analysis for mercury shall be performed using EPA Method 1631E.
- 4.11.4 Analysis for per- and polyfluoroalkyl substances (PFAS) shall be performed using EPA Method 1633.

- 4.11.5** All analyses shall be performed by a laboratory certified by the Connecticut Department of Public Health, with the exception of analyses of pH, temperature, and total residual chlorine.
- 4.11.6** It is a violation of this permit for a Permittee or his/her designated agent to manipulate test samples in any manner or to delay sample shipment.

4.12 Environmental Laboratory

Analyses required under this permit shall be performed in accordance with the Conn. Gen. Stat. Section 19a-29a. An “environmental laboratory”, as that term is defined in the referenced section, that is performing analyses required by this permit, shall be registered and have certification acceptable to the Commissioner, as such application and certification is necessary.

4.13 Metals

All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.

4.14 PFAS

Analysis for PFAS shall be performed using the method(s) approved by the EPA pursuant to 40 CFR 136 and by a laboratory certified to conduct such test methods. If no such test method is approved by EPA pursuant to 40 CFR 136, PFAS analyses shall be performed in accordance with EPA Method 1633 or 1633A (see <https://www.epa.gov/cwa-methods/cwa-analytical-methods-and-polyfluorinated-alkyl-substances-pfas>). See Appendix A for a list of PFAS analytes.

4.15 Minimum Levels

- 4.15.1** The minimum levels (“ML”) at which quantification must be achieved and verified during the chemical analyses required for this general permit shall be at or below the level of the applicable effluent limit, or if above the applicable effluent limit, the amount of the pollutant must be high enough that the method detects and quantifies the level of the pollutant.
- 4.15.2** The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible consistent with the requirements of this section of the permit.
- 4.15.3** Analyses for which quantification was verified to be at or below a ML shall be reported as “less than the [ML]” where “[ML]” is the numerical value equivalent to the ML for that analysis.
- 4.15.4** Analytical results indicating that a parameter was not present at a concentration greater than or equal to the ML specified for that analysis shall be considered equivalent to zero (0.0) for purposes of determining compliance with effluent limitations or conditions that require calculations (e.g. grab sample averages, average monthly limits).
- 4.15.5** Permittees must submit documentation showing the ML used for each analysis as an attachment to their Discharge Monitoring Report (DMR).

4.16 Whole Effluent Toxicity (WET)

- 4.16.1** Discharges to a surface water lasting more than thirty (30) consecutive calendar days must conduct quarterly WET testing.
- 4.16.2** Acute aquatic toxicity monitoring shall be performed using the NOAEL protocol specified in section 22a-430-3(j)(7)(A) of the Regs. Conn. State Agencies and as prescribed in the reference document *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, 5th edition (EPA-821-R-02-012), or the most current version, with any exceptions or clarifications noted below.
- 4.16.3** See Appendix B for additional permit requirements.

4.17 Record Keeping and Reporting Requirements

4.17.1 Electronic Reporting

- 4.17.1.1** For discharge activities that require a Notice of Coverage, the Permittee shall report results of chemical analyses electronically using NetDMR, a web-based tool that allows Permittees to electronically submit Discharge Monitoring Reports (“DMRs”) and other required reports through a secure internet portal. The following are required to be submitted as an attachment to DMRs in NetDMR: any additional monitoring conducted in accordance with 40 CFR 136 and any calculations used to determine compliance. Additionally, New Applicants waiting for access to NetDMR shall attach all monitoring data required during this waiting period to the first discharge monitoring report available in NetDMR.

NetDMR is accessed at: <https://npdes-ereporting.epa.gov/net-netdmr>

- 4.17.1.2** DMRs shall be submitted by the thirtieth (30th) day of the month following the month in which samples are taken. Should a discharge not occur during a sampling period, a DMR shall still be submitted using the appropriate NODI code to indicate "No Discharge."
- 4.17.1.3** If the Permittee monitors any discharge more frequently than required by this general permit using test procedures approved under 40 CFR 136 or specified in this general permit, the results shall be included in the calculation and reporting of the data on the DMR.
- 4.17.1.4** All aquatic toxicity analytical reports must be included as an attachment to the DMR. See Appendix B for additional permit conditions on toxicity.
- 4.17.1.5** The permittee shall also electronically submit any written report of noncompliance as an attachment to the DMR.

4.17.2 Record Retention

- 4.17.2.1** If the Permittee monitors any discharge more frequently than required by the permit using test procedures approved under 40 CFR 136 or specified in the permit, the results

shall be maintained on site and shall be submitted upon request of the Commissioner.

- 4.17.2.2 Records required by this general permit shall be retained for five (5) years on-site, or at the Permittee's principal place of business in Connecticut, as required by Section 22a-430-3(j) of the Regs. Conn. State Agencies. Records shall be made available to the Commissioner for inspection immediately (within five (5) business days) upon request.
- 4.17.2.3 The Commissioner may extend this record retention period as he or she deems necessary upon written notice to the Permittee, and this period is automatically extended for as long as a Permittee is under an active license, permit, or order from the Commissioner under Chapter 446K of the Conn. Gen. Stat. or if the Permittee is in litigation for any violation of any permit or order issued by the Commissioner under Chapter 446K of the Conn. Gen. Stat.
- 4.17.2.4 Permittees must provide copies of all monitoring data upon the Commissioner's request within two (2) business days of the request.

4.18 Treatment System Operation and Maintenance

- 4.18.1 The Permittee must maintain any treatment, collection, or conveyance systems necessary to meet the general permit effluent limits and conditions contained in the general permit and Notice of Coverage at all times.
- 4.18.2 The Permittee shall treat the discharge for any pollutant identified as present in the untreated wastewater at a concentration exceeding the limits of this general permit or the limitations specified in a Notice of Coverage.
- 4.18.3 The treatment system must be maintained at all times as described in the application.
 - 4.18.3.1 Treatment systems shall be inspected and maintained at regularly scheduled intervals as determined by manufacturer specifications, site specific conditions and best professional judgment. The Permittee shall conduct routine inspections of all equipment associated with the discharges authorized by this general permit. Inspections shall be conducted as necessary, but no less than monthly, to ensure proper operation of all equipment.
 - 4.18.3.2 A written log shall be maintained on-site or at the Permittee's principal place of business in Connecticut, as required by section 22a-430-3(j) 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.
 - 4.18.3.3 If the discharge is directed to a waterbody or tributary to any waterbody that contributes to a source of public drinking water, treatment shall, at a minimum, incorporate technologies certified by the NSF for the treatment of drinking water for the removal of the pollutants of concern and be designed for the flows anticipated.
 - 4.18.3.4 The discharge shall cease if the treatment system is not operating as necessary to

maintain compliance with all effluent limitations.

4.19 Erosion and Sediment Controls

- 4.19.1.1 If authorized activities create a potential for pollution due to the erosion of soil; erosion and sediment control measures shall be installed and maintained in compliance with the standards set forth in the “Connecticut Guidelines for Soil Erosion and Sediment Control” (2024, as revised), established pursuant to section 22a-328 of the General Statutes to ensure that erosion of disturbed soils and discharge of eroded sediments to tidal wetlands, inland wetlands and watercourses are minimized or eliminated.
- 4.19.1.2 During the construction of any dewatering facility associated with the discharge, erosion and sediment control measures shall be installed and maintained to ensure that erosion of disturbed soils and discharge of eroded sediments to tidal wetlands, inland wetlands and watercourses are minimized or eliminated.
- 4.19.1.3 Erosion and sediment control measures shall be installed and maintained to ensure that discharge energies are sufficiently dissipated to prevent the erosion of soil or the discharge of eroded sediments to tidal wetlands, inland wetlands and watercourses.

4.20 Duty to Correct, Record, and Report Violations

4.20.1 Corrective Actions

Immediately upon learning of a violation of a condition of this general permit, the Permittee shall immediately take all reasonable actions to determine the cause of the violation, correct the violation, mitigate the impact of the violation, and prevent its recurrence.

4.20.2 Noncompliance Notifications

- 4.20.2.1 In accordance with Section 22a-430-3(j)(8), 22a-430-3(j)(11)(D), 22a-430-3(k)(4), and 22a-430-3(i)(3) of the Regs. Conn. State Agencies, the Permittee shall notify the Commissioner of the following actual or anticipated noncompliance with the terms or conditions of this permit within two (2) hours of becoming aware of the circumstances.
 - a. A noncompliance that is greater than two times an effluent limitation;
 - b. Any condition that may endanger human health or the environment, including but not limited to noncompliance with WET limitations;
 - c. A failure or malfunction of monitoring equipment used to comply with the monitoring requirements of this permit;
 - d. Any actual or potential bypass of the Permittee’s collection system or treatment facilities; or
 - e. Expansions or significant alterations of any wastewater collection, treatment facility, or its method of operation for the purpose of correcting or avoiding a permit violation.

- 4.20.2.2 All other actual or anticipated violations of the permit shall be reported to the

Commissioner within twenty-four (24) hours of becoming aware of the circumstances.

4.20.2.3 Notification of an actual or anticipated noncompliance or facility modification does not stay any term or condition of this permit.

4.20.2.4 Where to Submit Noncompliance Notifications

Noncompliance Notifications shall be submitted via the Commissioner's online Noncompliance Notification Form:

<https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements>.

4.20.2.5 Resampling in the Event of an Effluent Limit Violation

If any sample analysis violates an effluent limit, a second sample of the effluent, using the same sample type, shall be collected and analyzed for the parameter(s) in question and the results reported to DEEP within thirty (30) days of the exceedance using the Noncompliance Follow-up Report Form referenced in Section 4.20.3 of this general permit and NetDMR.

4.20.3 Noncompliance Follow-Up Report

4.20.3.1 Within five days of any Notification of Noncompliance, the Permittee shall submit a follow-up report using the Commissioner's online Noncompliance Follow-up Report Form:

<https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements>.

The follow-up report shall contain, at a minimum, the following information:

- a. A description of the noncompliance and its cause.
- b. The period of noncompliance, including exact dates and times.
- c. If the noncompliance has not been corrected, the anticipated time it is expected to continue.
- d. Steps taken or planned to correct the noncompliance and reduce, eliminate and prevent recurrence of the noncompliance.

4.20.4 Additional Notification Requirements

In accordance with Section 22a-430-3(j)(11)(E) of the Regs. Conn. State Agencies, the Permittee shall notify the Commissioner within seventy-two (72) hours and in writing within thirty (30) days when he or she knows or has reason to believe that the concentration in the discharge of any substance listed in the application, or any toxic substance as listed in Appendix B or D of the Regs. Conn. State Agencies Section 22a-430-4, has exceeded or will exceed the highest of the following levels:

- 4.20.4.1 One hundred micrograms per liter;
- 4.20.4.2 Two hundred micrograms per liter for acrolein and acrylonitrile,
- 4.20.4.3 Five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
- 4.20.4.4 One milligram per liter for antimony;
- 4.20.4.5 An alternative level specified by the Commissioner, provided such level shall not exceed the level which can be achieved by the Permittee's treatment system; or
- 4.20.4.6 A level two times the level specified in the Permittee's application.
 - a. The seventy-two (72) hour initial Noncompliance Notifications shall be submitted via the Commissioner's online Noncompliance Notification Form. The thirty (30) day follow-up report shall be submitted via the Commissioner's online Noncompliance Follow-up Report Form. The Forms are available at the Commissioner's website:
<https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements> .
 - b. A record of such violations or conditions shall be maintained on site and include the information described in this subsection of this general permit.

4.21 Resampling in the Event of an Effluent Limit Violation

If any sample analysis violates an effluent limit, a second sample of the effluent, using the same sample type, shall be collected and analyzed for the parameter(s) in question and the results reported to DEEP within thirty (30) days of the exceedance using the Noncompliance Follow-up Report Form and NetDMR.

Section 5 Regulations of Connecticut State Agencies Incorporated into this General Permit

Unless specific conditions, terms or limitations within this general permit are more restrictive, 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:

5.1 Section 22a-430-3

- Subsection (a) Definitions
- Subsection (b) General
- Subsection (c) Inspection and Entry
- Subsection (d) Effect of a Permit
- 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
- Subsection (j) Monitoring, Records and Reporting Requirements
- Subsection (k) Bypass
- Subsection (m) Effluent Limit Violations
- Subsection (n) Enforcement
- Subsection (o) Resource Conservation
- Subsection (p) Spill Prevention and Control
- Subsection (q) Instrumentation, Alarms, Flow Recorders
- Subsection (r) Equalization

5.2 Section 22a-430-4

- Subsection (a) Duty to Apply
- Subsection (b) Duty to Reapply
- Subsection (c) Application Requirements
- Subsection (o) Permit or Application Transfer
- Subsection (p) Revocation, Denial, Modification
- Subsection (q) Variances
- Subsection (t) Prohibitions

Section 6 Standard Conditions

The following standard conditions have been included in this general permit for the convenience of the permittee and are generally duplicative of the incorporated regulations in Section 5 of this general permit. If there are conflicting requirements, the regulations in Section 22a-430 of the Regs. Conn. State Agencies take precedence.

6.1 Inspection and Entry

The Commissioner or his or her authorized representative may take any actions authorized by sections 22a-6 (5), 22a-425 or 22a-336 of the Conn. Gen. Stat. as amended.

6.2 Submission of Documents

Any document, other than a DMR and reporting of violations, required to be submitted to the Commissioner under this section of the permit will, unless otherwise specified in writing by the Commissioner or through this general permit, be directed to:

DEEP.IndustrialNPDESCompliance@ct.gov

With the subject line: “*ATTN: General Permit for the Discharge of Dewatering and Remediation Wastewaters Permit No. CTDRGPXXX*”

For Permittees that are not required to submit an application to the Commissioner, the permit number will CTDRGP000. For Permittees required to submit an application, the unique permit number will be provided to the Permittee in the Notice of Coverage provided by the Commissioner.

6.3 Violations

Violations of any of the terms, conditions, or limitations contained in this permit may subject the permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the Conn. Gen. Stat. and Regs. Conn. State Agencies.

6.4 Enforcement

The Commissioner may take any enforcement action provided by law, including but not limited to seeking injunctions, penalties and forfeitures as provided in sections 22a-6, 22a-7, 22a-430, 22a-432, 22a-435, 22a-438, and 22a-471 of the Conn. Gen. Stat. as amended, for any violations or acts of noncompliance with chapter 446k of the Conn. Gen. Stat. or any regulation, order, permit, or approval issued there under.

6.5 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

6.6 No Assurance

No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the permittee pursuant to this permit will result in compliance or prevent or abate pollution.

6.7 Relief

Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state, and local law.

6.8 Duty to Provide Information

If the Commissioner requests any information pertinent to the authorized activity or to determine compliance with this general permit or with the Permittee's Approval of Application, the Permittee shall provide such information in writing within thirty (30) days of such request. Such information shall be certified in accordance with Section 6.26 of this general permit.

6.9 Reliance on Application

When evaluating a Application, the Commissioner relies on information provided by the Applicant. 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.

6.10 Duty to Comply

- 6.10.1** The permittee shall comply with all terms and conditions of the permit. Any permit noncompliance constitutes a violation of Chapter 446k of the Conn. Gen. Stat.. Permit noncompliance is grounds for enforcement action, permit revocation or modification, or denial of a permit renewal application.
- 6.10.2** The permittee shall comply with effluent limitations, standards or prohibitions established under section 307 (a) CWA which are adopted in subsection (l) of section 22a-430-4 of the Regs. Conn. State Agencies for toxic substances upon adoption, even if the general permit has not yet been modified to incorporate the requirement.
- 6.10.3** Except for any toxic effluent standards and prohibitions imposed under section 307 CWA, compliance with a general permit during its term shall constitute compliance, for purposes of enforcement, with sections 301, 302, 306, 307, 318, 403 and 405 of the Clean Water Act.
- 6.10.4** The Commissioner may modify or revoke a permit during its term for cause as provided in section 22a-430-4 of the Regs. Conn. State Agencies.
- 6.10.5** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the general permit.

6.11 Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of the general permit or any discharge which has a reasonable likelihood of adversely affecting human health or the environment.

6.12 Sludge Disposal

The Permittee shall dispose of screenings, sludges, chemicals, and oils and any solid or liquid wastes resulting from the wastewater treatment processes at locations approved by the Commissioner for disposal of such materials, or by means of a waste hauler licensed under the provisions of the Conn. Gen. Stat.

6.13 Resource Conservation

All permittees shall implement and maintain practices and/or facilities which, to the maximum extent practicable, result in the minimum amount of wastewater discharged. Such results may be achieved by methods including but not limited to water conservation, resource recovery, waste recycling, wastewater reuse, and material or product substitution. Excessive use of water or the addition of water to dilute an effluent in order to meet any permit limitations or conditions is prohibited.

6.14 Spill Prevention and Control

6.14.1 The permittee shall maintain practices, procedures and facilities designed to prevent, minimize, and control spills, leaks or such other unplanned releases of all toxic or hazardous substances and any other substances as the Commissioner deems necessary to prevent pollution of the waters of the state. Such requirements shall, unless otherwise allowed by the Commissioner, apply to all facilities used for storing, handling transferring, loading, or unloading such substances, including manufacturing areas.

6.14.2 The requirements of this section do not apply to facility components or systems already covered by plans prepared or approved under the Resource Conservation and Recovery Act and the Spill Prevention, Control and Countermeasure program.

6.15 Duty to Reapply

The general permit shall be effective for a fixed term not to exceed five (5) years, unless the Commissioner administratively extends the permit in accordance with the General Statutes and Regs. Conn. State Agencies. The Commissioner will provide instructions on how and when to reapply.

6.16 Equalization

All treatment facilities shall be designed to prevent upsets, malfunctions or instances of noncompliance resulting from variations in wastewater strength or flow rate, and shall include, as the Commissioner deems necessary, equalization facilities separate from the treatment facilities.

6.17 Effect of an Upset

6.17.1 An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

6.17.2 A permittee who wishes to establish the affirmative defense of upset shall demonstrate,

through properly signed, contemporaneous operating logs, or other relevant evidence that:

- 6.17.2.1 An upset occurred and that the permittee can identify the cause(s) of the upset;
- 6.17.2.2 The permitted facility was at the time being properly operated;
- 6.17.2.3 The permittee submitted notice of the upset timely as required in Section 4.20.2 of this general permit; and
- 6.17.2.4 The permittee complied with all remedial measures.

6.18 Bypass

The permittee shall not at any time bypass the collection system or treatment facilities or any part thereof unless such bypass is unanticipated, unavoidable, and necessary to prevent loss of life, personal injury or severe property damage, and there were no feasible alternatives to the bypass, including but not limited to the use of auxiliary or back-up treatment facilities, retention of untreated wastes, stopping the discharges, or maintenance during normal periods of equipment downtime; or the permittee receives prior written approval of the bypass from the Commissioner in order to perform essential maintenance, and the bypass does not cause effluent limitations to be exceeded.

6.18.1 Necessary Bypass

In the event such a bypass is necessary, the permittee shall to the extent possible minimize or halt production and/or all discharges until the facility is restored or an alternative method of treatment is provided.

6.18.2 Bypass Prevention

In order to prevent a bypass, the permittee may schedule maintenance during periods when no discharge is occurring or employ any necessary means, including but not limited to duplicate units and systems or alternative collection and treatment or pretreatment schemes. Any such means shall insure that the effluent limitations specified in the permit are achieved; be approved by DEEP in writing prior to its use, which approval shall include an alternative schedule for monitoring if appropriate; and be discontinued upon completion of the performance of the essential maintenance.

6.18.3 Notification to DEEP

The permittee shall provide notice to DEEP not less than twenty-four (24) hours prior to the use of any alternative scheme and monitor and record the quality and quantity of the discharge in accordance with permit terms and conditions or an approved alternative schedule. Such monitoring shall be submitted with the next monitoring report required by this general permit and shall not be used to meet routine scheduled monitoring report requirements of this general permit.

If any bypass occurs or may occur, the permittee shall, within two hours of becoming aware of such condition or need, notify DEEP 24-hour Emergency Response Unit at 860-424-3338 or 866-337-7745 and submit within five days a written report including the cause of the problem, duration including dates and times and corrective action taken or planned to prevent other such occurrences. Information about incident reporting can be found on DEEP's

6.18.4 Bypass Monitoring

If the permittee has reason to believe that any effluent limitation specified in this general permit may be violated, the permittee shall immediately take steps to prevent or correct such violation, including but not limited to employing an alternative scheme of collection or treatment, and/or control the production of the wastewater and shall monitor and record the quality and quantity of the discharge in accordance with the permit terms and conditions or an approved alternative schedule. Such monitoring shall be submitted with the next monitoring report required by this general permit and shall not be used to meet the routine monitoring requirements of this general permit.

6.19 Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems and parts thereof for wastewater collection, storage, treatment and control which are installed or used by the permittee to achieve compliance with the terms and conditions of this general permit. Proper operation and maintenance includes, but is not limited to, effective performance, adequate funding, and adequate operator staffing and training, including the employment of certified operators as may be required by the Commissioner pursuant to sections 22a-416-1 through 22a-416-10 of the Regs. Conn. State Agencies, as amended, and adequate laboratory and process controls, including appropriate quality assurance procedures.

6.19.1 Auxiliary Facilities and Spare Parts

In accordance with sections 22a-416 through 22a-471 of the Conn. Gen. Stat. as amended, the permittee is required to install and operate a back-up or auxiliary facilities or similar systems or the inventory of spare parts and appurtenances.

6.20 Instrumentation, Alarms, and Flow Records

Except for batch treatment systems unless required by the Commissioner, Process Wastewater treatment systems shall include instrumentation to automatically and continuously indicate, record and/or control those functions of the system and characteristics of the discharge which the Commissioner deems necessary to assure protection of the waters of the state.

6.21 Inspection of Treatment Systems

- 6.21.1** The wastewater treatment system must be maintained at all times as described in the Application.
- 6.21.2** Treatment systems shall be inspected and maintained at regularly scheduled intervals as determined by manufacturer specifications, site specific conditions and best professional judgment. The Permittee shall conduct routine inspections of all equipment associated with the discharges authorized by this general permit. Inspections shall be conducted as necessary, but no less than monthly, to ensure proper operation of all equipment.

6.22 Inspection Log

A written log shall be maintained on-site or at the Permittee's principal place of business in Connecticut, as required by Section 22a-430-3(j) of the Regs. Conn. State Agencies 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.

6.23 Signatory Requirements

All permit applications and permit modification requests submitted to the Commissioner shall be signed as follows:

- 6.23.1** For a corporation: by a responsible corporate officer.
- 6.23.2** For the purposes of this section, a responsible corporate officer means: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-or decision-making functions for the corporation, or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding twenty-five million dollars (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- 6.23.3** For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
- 6.23.4** For a municipality, State, Federal, or other public agency; by either a principal executive officer or a ranking elected official.
- 6.23.5** For purposes of this section, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

6.24 Duly Authorized Representative

All reports required by permits, and other information submitted to the Commissioner shall be signed by a person described in Section Error! Reference source not found. of this general permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- 6.24.1** The authorization is made in writing by a person described in Section 6.23 of this general permit.
- 6.24.2** The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or well field, superintendent, position, or equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position.
- 6.24.3** The written authorization is submitted to the Commissioner.

6.25 Notification to DEEP

If an authorization under this subsection is no longer accurate because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of this section must be submitted to the Commissioner prior to or together with any reports or other information to be signed by an authorized representative.

6.26 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 Applicant or the Permittee in accordance with Section 22a-430-3(b)(2) of the Regs. Conn. State Agencies, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

“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 Conn. Gen. Stat., pursuant to section 53a-157b of the Conn. Gen. Stat., and in accordance with any other applicable statute.”

6.27 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.

6.28 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 Conn. Gen. Stat., pursuant to section 53a-157b of the Conn. Gen. Stat., and in accordance with any other applicable statute.

6.29 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 that any relevant information has been omitted, or has changed since submittal of the original Application, 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 6.26 of this general permit.

6.30 Transfer of Authorization

Any authorization under this general permit is transferable only in accordance with the provisions of Section 22a-60 of the Conn. Gen. Stat. and Section 22a-430-4(o) of the Regs. Conn. State Agencies.

6.31 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.

6.32 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.

6.33 Commissioner's Powers

The Commissioner may approve a Application or modify an Approval of Application with reasonable conditions. If the Commissioner approves a Application with conditions, the Permittee shall be bound by such conditions as if they were a part of this general permit.

6.34 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 Regs. Conn. State Agencies. Nothing herein shall be construed to affect any remedy available to the Commissioner by law.

Violations of any of the terms, conditions or limitations contained in this general permit may subject the Permittee to enforcement action, including but not limit to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the Conn. Gen. Stat. and Regs. Conn. State Agencies. Specifically, civil penalties of up to twenty-five thousand dollars may be assessed per violation per day.

6.35 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.

6.36 Filing of an Individual Permit Application

If the Commissioner notifies a permittee in writing that such permittee must obtain an individual permit to continue lawfully conducting the activity authorized by this general permit, the permittee may continue conducting such activity only if the permittee files an application for an individual permit within sixty (60) 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 Application. Nothing herein shall

affect the Commissioner's power to revoke a permittee's authorization under this general permit at any time.

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Section 7 General Definitions

“7Q10 flow (seven-day, ten-year low flow)” means the lowest seven consecutive day mean stream flow with a recurrence interval of ten years.

“Notice of Coverage” and “Approval of Application” or “NOC” means an approval issued under Section 3 of this general permit.

“Aquifer protection area” means aquifer protection area as defined by section 22a-354h of the Conn. Gen. Stat.

“Annually,” in the context of a sampling frequency, means the sample must be collected in the month of June unless otherwise approved in writing by the Commissioner.

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

“Base Neutral and Acid Extractables” or “BNAs” means analytes found in Table 1 and Table 2 of EPA Method 625.1.

“Best Management Practice” or “BMP” means a practice, procedure, structure, or facility designed to prevent or minimize environmental damage or to maintain or enhance environmental quality. BMPs include without limitation, facilities to reduce pollutants in wastewater and practices or structures to minimize the generation of waste, to control runoff, drainage, spillage, or leaks of contaminated material, to protect sources of drinking water and drinking water wells, and to protect stream flows and aquatic life.

“CERCLA” means Comprehensive Environmental Response, Compensation, and Liability Act, also known as the Superfund act.

“Certified Hazardous Materials Manager” or “CHMM” means a person who has gained recognition as a certified hazardous materials manager in accordance with the requirements developed and administered by the Institute of Hazardous Materials Management.

“CFR” means the Code of Federal Regulations.

“Conn. Gen. Stat.” means Connecticut General Statutes.

“Chlorinated herbicides” means the following parameters: 2,4-D; Dalapon; 2,4-DB; Dicamba; Dichlorprop; Dinoseb; MCPA; MCPP; 2,4,5-T; and 2,4,5-TP.

“Chlorinated volatile organics” means the following parameters: Bromodichloromethane; carbon tetrachloride; chlorobenzene; chloroethane; 2-chloroethylvinyl ether; chloroform; chloromethane; dibromochloromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; trans-1,2-dichloroethane; 1,2-dichloropropane; cis-1,3-dichloropropene; trans-1,3-dichloropropene; methylene chloride; 1,1,2,2-tetrachloroethane; tetrachloroethene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; and vinyl chloride.

“Clean Water” means water which in the judgment of the Commissioner is of a quality substantially similar to that occurring naturally in the receiving stream under consideration. Clean water may include minor cooling waters, residential swimming pool water, and stormwater.

“Coastal boundary” means coastal boundary as defined by section 22a-94 of the General Statutes.

“Coastal waters” means those waters of Long Island Sound and its harbors, embayments, tidal rivers, streams and creeks which contain a salinity concentration of at least five hundred parts per million under low flow conditions.

"Commissioner" means Commissioner as defined by section 22a-2(b) of the General Statutes.

“Day” means the calendar day.

"DEEP" means the Department of Energy and Environmental Protection.

“Dewatering wastewater” means wastewater generated from activities such as, pumping accumulated stormwater or groundwater from an excavation, pumping water from a cofferdam, wastewater generated by removing/replacing an underground storage tank, or pumping surface water that has been diverted onto a construction site.

“Director” shall mean the Director of the Water Permitting and Enforcement Division.

“DMR” means Discharge Monitoring Report.

“DSN” means discharge serial number designating each discreet discharge consisting solely of wastewater authorized by this general permit.

“Effluent” means the wastewater authorized to be discharged by this general permit after treatment and prior to mixing with liquid from any other source.

“Effluent limitation” means an effluent limitation established in this general permit, including limitations specified Section 4.3. of this general permit.

“Emergency discharge” means a discharge resulting from an emergency response, unexpected release, or underground storage tank release, that occurs to avoid imminent endangerment to human health, public safety, property, or the environment. After thirty (30) days, the discharge is no longer considered an emergency.

“Emerging contaminants” means emerging contaminants as referenced at: [Emerging Contaminants and Federal Facility Contaminants of Concern | Cleanups at Federal Facilities | US EPA](#) or any other contaminant classified as emerging by the Commissioner.

“Endangered or threatened species” means endangered or threatened species as defined by section 26-304 of the General Statutes.

“EPA” means the United States Environmental Protection Agency.

“Facility” means any facility at which an authorized discharge originates.

“General Statutes” means the Connecticut General Statutes or Conn. Gen. Stat..

“gpd” means gallons per day.

“Grab Sample ” means an individual sample collected and analyzed in less than fifteen (15) minutes.

“High Quality Waters” means surface waters where the water quality is better than necessary to meet the minimum criteria established in the Connecticut Water Quality Standards for the applicable classification and related designated uses, section 22a-426 of the Regs. Conn. State Agencies.

“Impaired Waters ” means those surface waters of the state designated by the Commissioner as impaired pursuant to Section 303(d) of the federal Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report within categories 4 or 5, including any subdivisions of these categories.

"Individual permit" means a permit issued to a named permittee under section 22a-430 of the General Statutes.

“Influent” means the groundwater to be discharged prior to any treatment except for the implementation of BMPs at pump intakes for the control of solids.

“Inland wetlands” means wetlands as defined by section 22a-38 of the General Statutes.

“Intermittent discharges of remediation wastewater” means a discharge that are generated at scheduled intervals related to activities such as groundwater monitoring, site investigation, groundwater pump tests, or related activities. Discharges that temporarily cease due to treatment system shutdown, lack of available groundwater or other unscheduled reasons, are not intermittent as defined by this general permit.

“Licensed Environmental Professional” or “LEP” means an environmental professional licensed pursuant to the requirements of section 22a-133v of the General Statutes.

“Marine” as used in this permit refers to a water segment DEEP has classified SA or SB.

“Method detection limit” means the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.

“mg/l” means milligrams per liter.

“Minimum Level” or “ML” represent the concentrations at which quantification must be achieved and verified during the chemical analyses for pollutants or parameters identified in Section 4.. Analyses for these parameters must include check standards within ten percent of the specified Minimum Level or calibration points equal to or less than the specified Minimum Level. For the purposes of this permit, “Minimum Level” means the same as “Reporting Limit”, “Quantitation Limit”, and “Quantification Level”.

“Monthly” means calendar month.

“MTBE” means Methyl tert-butyl ether.

"Municipality" means a city, town, or borough of the state.

“National Priority List” refers to Appendix B of 40 CFR 300.

“ND” or “non-detect” refers to a sample result where the concentration of a parameter is determined to be less than the detection level of the analytical method.

“NetDMR” is a freely available Web-based tool that allows permittees to electronically sign and submit their discharge monitoring reports (DMRs) or stormwater monitoring reports (SMRs) to EPA via a secure internet connection.

“ng/L” means nanograms per liter.

“NOAEL” or “no observable acute effect level” means the highest concentration of effluent in a sample, analyzed by a toxicity test conducted pursuant to section 22a-430-3(j)(7)(A) of the Regs. Conn. State Agencies, and as prescribed in the reference document *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, that demonstrates 90% or greater survival of the test organisms.

“Oil or petroleum” means oil or petroleum as defined in Section 22a-448 of the Conn. Gen. Stat..

“Organochlorine pesticides” means the following parameters: Aldrin; Alpha-BHC; Beta-BHC; Delta-BHC; Gamma-BHC (Lindane); Chlordane (technical); 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; Dieldrin; Endosulfan I; Endosulfan II; Endosulfan sulfate; Endrin; Endrin aldehyde; Heptachlor; and Heptachlor epoxide.

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

“PCBs” means Polychlorinated Biphenyls.

“Permittee” means any person who or municipality which initiates, creates, originates or maintains a discharge of wastewater for which an Approval of Application has been issued by the Commissioner pursuant to this general permit.

"Person" means person as defined by section 22a-2(c) of the General Statutes.

“Phenols” refers to the following parameters: 2-sec-butyl-4,6-dinitrophenol (DNBP), 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, and 2,4,6-trichlorophenol

“Phthalate esters” means the following parameters: butyl benzyl phthalate; bis(2-Ethylhexyl) phthalate; diethyl phthalate; dimethyl phthalate; di-n-butyl phthalate; and di-n-octyl phthalate.

“Polynuclear aromatic hydrocarbons” or “PAHs” means the following parameters: acenaphthene, acenaphthylene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(ghi)perylene; benzo(j)fluoranthene, benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; dibenzo(a,i)pyrene, fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; 3-methylcholanthrene, naphthalene; phenanthrene; and pyrene.

“Professional engineer” or “P.E.” means a professional engineer licensed by the Connecticut Department of Consumer Protection.

“Publicly owned treatment works” or “POTW” means a system used for the collection, treatment and/or disposal of sewage from more than one lot, as defined in section 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, a regional water authority, or the state.

“Qualified professional” means a P.E., LEP, or CHMM who has, for a minimum of eight years, engaged in the design, installation, operation, and maintenance of systems for the collection and treatment of sanitary, industrial, commercial, or remediation wastewaters including, but not limited to, a minimum of four years in responsible charge of design, installation, operation, and maintenance of such systems.

“Quarterly”, in the context of a sampling frequency, means samples must be collected in the months of March, June, September and December unless otherwise approved in writing by the Commissioner.

“Regs. Conn. State Agencies” means the Regulations of Connecticut State Agencies.

“Recovery well” means a well-used to collect and pump contaminated groundwater.

“Registrant” or “Applicant” means a person who, or municipality which, files a application pursuant to Section 3 of this general permit.

“Application” or “Registration” means a application form filed with the Commissioner pursuant to Section 3 of this general permit.

“Remediation wastewater” means wastewater generated during remediation activities in connection with investigating pollution or remediating polluted groundwater, sediment, or soil.

“Screening analysis” means an analysis performed to satisfy the application requirements of Section 3.4.7 of this permit for the evaluation of groundwater prior to treatment for the removal of pollutants.

“Short-term Discharge” refers to discharges lasting no more than 30 consecutive days, which are then terminated and will not be re-started.

“Site” means geographically contiguous land or water 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.

“S.U.” means standard units.

“Sufficiently sensitive” means using a sufficiently sensitive analytical method as defined in 40 CFR §122.44(i)(1)(iv).

“Surface water(s)” means the waters of Long Island Sound, its harbors, embayments, tidal wetlands and creeks; rivers and streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs, federal jurisdictional wetlands, and other natural or artificial, public or private, vernal or intermittent bodies of water, excluding groundwater.

“TAME” means tert-Amyl methyl ether.

“TBA” means tert-butyl alcohol.

“Tidal wetland” means wetland as defined by section 22a-29 of the General Statutes.

“Total petroleum hydrocarbons analysis” means analysis conducted in accordance with 40 CFR 136 to determine the concentration of gross oil or hydrocarbon in a substance or material.

“Total Volatile Organics” (“VOCs”) means the combined sum of volatile and semi-volatile organic compounds. This includes, but is not limited to: acetone; acrolein; acrylonitrile; benzene; bromodichloromethane; bromoform; bromomethane; carbon tetrachloride; chlorobenzene; chloroethane; 2-chloroethylvinyl ether; chloroform; chloromethane; dibromochloromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; trans-1,2-dichloroethane; 1,2-dichloropropane; cis-1,3-dichloropropene; trans-1,3-dichloropropene; diethyl ether; p-dioxane; ethylbenzene; methylene chloride; methyl ethyl ketone; 1,1,2,2-tetrachloroethane; tetrachloroethene; toluene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; and vinyl chloride.

“Toxic” means having the ability to adversely affect the survival, growth, or reproduction of organisms or humans through either direct contact or consumption.

“Toxicity reduction evaluation” or “TRE” means an evaluation intended to determine those actions necessary to achieve compliance with the Whole Effluent Toxicity limits specified in Section 9.5. of this general permit.

“Treatment Facility” means a system or any part thereof, the purpose of which is to improve the chemical, physical or biological quality of a waste or wastewater discharge.

“µg/l” means micrograms per liter.

“UST” means underground storage tank.

“Volatile organic compound” or “VOC” means volatile organic compound as defined in 40 CFR 51.100(s).

“Watercourse” means watercourse as defined in section 22a-38 of the General Statutes, including those waters designated as Coastal Waters as defined by section 22a-93 of the General Statutes.

“Water Quality Standards” means water quality standards as adopted by the Commissioner in accordance with Section 22a-426 of the Conn. Gen. Stat.

“WET” means Whole Effluent Toxicity.

“WPCA” means Water Pollution Control Authority.

"WPCF" means Water Pollution Control Facility.

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Section 8 Appendix A: PFAS Analytes

Target Analyte Name		Analyte Abbreviation	NetDMR Code	CAS Number
Perfluoroalkyl carboxylic acids				
1	Perfluorobutanoic acid	PFBA	51522	375-22-4
2	Perfluoropentanoic acid	PFPeA	51623	2706-90-3
3	Perfluorohexanoic acid	PFHxA	51624	307-24-4
4	Perfluoroheptanoic acid	PFHpA	51625	375-85-9
5	Perfluorooctanoic acid	PFOA	51521	335-67-1
6	Perfluorononanoic acid	PFNA	51626	375-95-1
7	Perfluorodecanoic acid	PFDA	51627	335-76-2
8	Perfluoroundecanoic acid	PFUnA	51628	2058-94-8
9	Perfluorododecanoic acid	PFDoA	51629	307-55-1
10	Perfluorotridecanoic acid	PFTTrDA	51630	72629-94-8
11	Perfluorotetradecanoic acid	PFTeDA	51631	376-06-7
Perfluoroalkyl sulfonic acids-Acid Form				
12	Perfluorobutanesulfonic acid	PFBS	52602	375-73-5
13	Perfluoropentanesulfonic acid	PFPeS	52610	2706-91-4
14	Perfluorohexanesulfonic acid	PFHxS	52605	355-46-4
15	Perfluoroheptanesulfonic acid	PFHpS	52604	375-92-8
16	Perfluorooctanesulfonic acid	PFOS	52606	1763-23-1
17	Perfluorononanesulfonic acid	PFNS	52611	68259-12-1
18	Perfluorodecanesulfonic acid	PFDS	52603	335-77-3
19	Perfluorododecanesulfonic acid	PFDoS	52632	79780-39-5
Fluorotelomer sulfonic acids				
20	1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	4:2FTS	52607	757124-72-4
21	1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	6:2FTS	52608	27619-97-2
22	1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	8:2FTS	52609	39108-34-4
Perfluorooctane sulfonamides				
23	Perfluorooctanesulfonamide	PFOSA	51525	754-91-6
24	N-methyl perfluorooctanesulfonamide	NMeFOSA	52641	31506-32-8
25	N-ethyl perfluorooctanesulfonamide	NEtFOSA	52642	4151-50-2
Perfluorooctane sulfonamidoacetic acids				
26	N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	51644	2355-31-9
27	N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	51643	2991-50-6
Perfluorooctane sulfonamide ethanols				
28	N-methyl perfluorooctanesulfonamidoethanol	NMeFOSE	51642	24448-09-7
29	N-ethyl perfluorooctanesulfonamidoethanol	NEtFOSE	51641	1691-99-2

Target Analyte Name		Analyte Abbreviation	NetDMR Code	CAS Number
Per- and Polyfluoroether carboxylic acids				
30	Hexafluoropropylene oxide dimer acid	HFPO-DA	52612	13252-13-6
31	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	52636	919005-14-4
32	Perfluoro-3-methoxypropanoic acid	PFMPA	PF002	377-73-1
33	Perfluoro-4-methoxybutanoic acid	PFMBA	PF006	863090-89-5
34	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	52626	151772-58-6
Ether sulfonic acids				
35	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	PF003	756426-58-1
36	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	PF004	763051-92-9
37	Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	52629	113507-82-7
Fluorotelomer carboxylic acids				
38	3-Perfluoropropyl propanoic acid	3:3FTCA	PF001	356-02-5
39	2H,2H,3H,3H-Perfluorooctanoic acid	5:3FTCA	PF007	914637-49-3 3
40	3-Perfluoroheptyl propanoic acid	7:3FTCA	PF005	812-70-4

Section 9 Appendix B: Whole Effluent Toxicity (WET)

Note: The following language and/or effluent table may be modified in the final permit.

9.1 Sample Collection and Handling

- 9.1.1 All samples collected to determine compliance with aquatic toxicity limits in this general permit shall be grab samples.
- 9.1.2 Samples used for aquatic toxicity analysis shall not be dechlorinated, filtered, or modified in any way prior to testing, except for samples which require salinity adjustment. For salinities between 5 ppt and 15 ppt, the salinity of the effluent may be adjusted to 15 ppt using artificial sea salts.

9.2 Analytical Testing

- 9.2.1 Chemical analyses of the parameters identified in the approval of application shall be conducted on an aliquot of the same sample tested for Aquatic Toxicity.
- 9.2.2 In addition, copper, lead, iron, manganese, nickel, zinc, total residual chlorine, pH, temperature, salinity, total hardness, total alkalinity, dissolved oxygen, total suspended solids, total dissolved solids, turbidity, specific conductance, and appearance shall be measured in the undiluted effluent sample and in the dilution (control) water at the beginning of the test and at test termination. If total residual chlorine is not detected at test initiation, it does not need to be measured at test termination.
- 9.2.3 For tests with saltwater organisms that require salinity adjustment of the effluent, chemical analyses specified in Section 9.2.2 of this general permit shall be conducted on an aliquot of the sample collected for Aquatic Toxicity testing and on an aliquot of the effluent following salinity adjustment.
- 9.2.4 For discharges with a salinity of less than 5 ppt, toxicity tests shall employ neonatal (less than 24-hours old) *Daphnia pulex* and juvenile (1-14 days old, with no greater than a 24-hour range in age) *Pimephales promelas* as test organisms.
- 9.2.5 For discharges with a salinity greater than or equal to 5 ppt, toxicity tests shall utilize neonatal *Mysidopsis bahia* (1-5 days old with no more than a 24-hours age range) and juvenile *Menidia beryllina* (9-14 days old, with no greater than a 24-hour age range) as test organisms.
- 9.2.6 Copper nitrate shall be used as the reference toxicant for freshwater organisms and sodium lauryl sulfate, or sodium dodecyl sulfate shall be used as the reference toxicant for saltwater organisms.

9.3 WET Limit

Compliance with aquatic toxicity limits shall be demonstrated when the results of a valid pass/fail aquatic toxicity test indicate there is 90% or greater survival in an undiluted effluent sample.

9.4 Retest

If any of the below conditions occur, the permittee shall report the noncompliance in accordance with the general permit requirements and conduct another sample of the discharge must be

collected and analyzed for aquatic toxicity within 30 days of the previous test.

- The survival of the test organisms was less than 90% in the average of the test chambers containing undiluted effluent. Note if survival of the test organisms was less than 90% in the average of the test chambers containing undiluted effluent, the result is interpreted as a permit limit exceeded.
- The survival of test organisms was less than 90% in each replicate control test chamber or test conditions were not achieved as specified in section 22a-430-3(j)(7)(A) of the Regs. Conn. State Agencies, such as maintenance of appropriate environmental controls. Note: if the survival of test organisms was less than 90% in each replicate control test chamber or test conditions were not achieved as specified in section 22a-430-3(j)(7)(A) of the Regs. Conn. State Agencies the toxicity test is interpreted as an invalid test.
- Failure to collect concurrent effluent chemistry.

9.5 Toxicity Reduction Evaluation

If any two consecutive test results or any three test results in a twelve-month period indicate that an aquatic toxicity limit has been exceeded, the Permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and submit a Toxicity Identification/Reduction Evaluation (see Methods for Aquatic Toxicity Identification Evaluations, Publication No. EPA/600/6-91/003) for the review, and if necessary written approval of the Commissioner, which describes in detail the steps taken or shall be taken to eliminate the toxic impacts of the discharge on the receiving water. The report shall also include a proposed schedule for implementation. Such report shall be submitted within 30 days of the last exceedance. The Permittee shall implement all actions in accordance with the approved report and schedule.

Table B – Acute Toxicity Monitoring											
Discharge Serial Number: DSN 001-AT							Monitoring Location Codes: Y – Acute toxicity effluent results O – Acute toxicity chemical analyses U – Salinity adjusted effluent chemical analyses				
Wastewater Description: Wastewater description consistent with effluent outfall.											
Monitoring Location Description: Sampling location consistent with effluent outfall.											
Discharge is to:					Instream Waste Concentration: XXX %			Outfall Location: Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")			
PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL ⁵	MONITORING LOCATION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit ¹	Sample/Reporting Frequency ^{2, 3}	Sample Type or Measurement to be reported ⁴	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported		
Whole Effluent Toxicity (WET)											
Acute Aquatic Toxicity ⁶ <i>Daphnia pulex</i> , NOAEL @ % effluent	TAA3D	%	NA	≥90	Flow Dependent	Grab	≥90	NR	Grab		
Acute Aquatic Toxicity ⁶ <i>Pimephales promelas</i> , NOAEL @ % effluent	TAA6C	%	NA	≥90	Flow Dependent	Grab	≥90	NR	Grab		
Chemical Analyses Required with Acute Whole Effluent Toxicity Monitoring – See Appendix B. for Acute Testing⁷											
Date of Acute WET Chemistry Sample Collection ⁸	51883	YYYYMMDD	NA	---	Flow Dependent	Calculated	NA	NR	NA		O, U
Alkalinity	00410	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Aluminum, Dissolved	01106	µg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Aluminum, Total	01105	µg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Biochemical Oxygen Demand, 5-day (BOD ₅)	00310	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Carbon, Dissolved Organic	00681	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Chlorine, Total Residual	50060	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Copper, Dissolved	01040	µg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U

Table B – Acute Toxicity Monitoring											
Discharge Serial Number: DSN 001-AT							Monitoring Location Codes: Y – Acute toxicity effluent results O – Acute toxicity chemical analyses U – Salinity adjusted effluent chemical analyses				
Wastewater Description: Wastewater description consistent with effluent outfall.											
Monitoring Location Description: Sampling location consistent with effluent outfall.											
Discharge is to:					Instream Waste Concentration: XXX %			Outfall Location: Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")			
PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL ⁵	MONIT-ORING LOCATION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit ¹	Sample/Reporting Frequency ^{2, 3}	Sample Type or Measurement to be reported ⁴	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported		
Copper, Total	01042	µg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Dissolved Oxygen	00300	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Hardness, Total	00900	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Lead, Dissolved	01049	µg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Lead, Total	01051	µg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Nitrogen, Ammonia (total as N)	00610	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Nitrogen, Kjeldahl (total as N)	00625	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Nitrogen, Nitrate (total as N)	00620	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U
Nitrogen, Nitrite (total as N)	00615	mg/L	NA	---	Flow Dependent	Grab	NA	NR	NA		O, U

Table B – Acute Toxicity Monitoring											
Discharge Serial Number: DSN 001-AT								Monitoring Location Codes: Y – Acute toxicity effluent results O – Acute toxicity chemical analyses U – Salinity adjusted effluent chemical analyses			
Wastewater Description: Wastewater description consistent with effluent outfall.											
Monitoring Location Description: Sampling location consistent with effluent outfall.											
Discharge is to:					Instream Waste Concentration: XXX %			Outfall Location: Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")			
PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI- MUM LEVEL ⁵	MONIT- ORING LOCA- TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit ¹	Sample/ Reporting Frequency ^{2,3}	Sample Type or Measurement to be reported ⁴	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported		
					nt						
Nitrogen, Total (as N) ⁹	00600	mg/L	NA	---	Flow Depende nt	Calculation	NA	NR	NA		O, U
pH	00400	SU	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U
Phosphorus, Total	00665	mg/L	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U
Specific Conductance	51409	uMhos	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U
Temperature	00011	Deg. F.	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U
Total Suspended Solids	00530	mg/L	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U
Zinc, Dissolved	01090	µg/L	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U
Zinc, Total	01092	µg/L	NA	---	Flow Depende nt	Grab	NA	NR	NA		O, U

Table B – Acute Toxicity Monitoring											
Discharge Serial Number: DSN 001-AT								Monitoring Location Codes: Y – Acute toxicity effluent results O – Acute toxicity chemical analyses U – Salinity adjusted effluent chemical analyses			
Wastewater Description: Wastewater description consistent with effluent outfall.											
Monitoring Location Description: Sampling location consistent with effluent outfall.											
Discharge is to:		Instream Waste Concentration: XXX %				Outfall Location: Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")					
PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL ⁵	MONITORING LOCATION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit ¹	Sample/Reporting Frequency ^{2,3}	Sample Type or Measurement to be reported ⁴	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported		
<div style="text-align: center;">TABLE FOOTNOTES AND REMARKS</div> <p>Footnotes:</p> <p>¹ WET limits are expressed as a minimum daily limit, meaning the minimum allowable daily discharge over the course of the 24-hour sampling period. Chemical results analyzed in conjunction with WET tests shall be reported as the max value collected during the 24-hour sampling period.</p> <p>² The first entry in this column is the “Sample Frequency”. If a “Reporting Frequency” does not follow this entry and the “Sample Frequency” is more frequent than monthly, then the “Reporting Frequency” is monthly. If the “Sample Frequency” is specified as monthly, or less frequent, then the “Reporting Frequency” is monthly.</p> <p>³ If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the DMR in accordance with Section 4.9.1 of this permit.</p> <p>⁴ Grab samples shall be collected for acute toxicity tests consistent with the methodology outlined in Appendix B of this permit.</p> <p>⁵ “Minimum Level” refers to Section 4.6 of this permit.</p> <p>⁶ Acute toxicity testing shall be conducted in accordance with Appendix B of this permit. The NOAEL results at 100% effluent (in % survival) for the acute toxicity test shall be reported on the DMR. The Aquatic Toxicity Monitoring Report (“ATMR”) shall be completed for each toxicity testing event and submitted in accordance with Appendix B of this permit.</p> <p>⁷ Chemical analyses shall be conducted on samples used in the acute toxicity tests. These analyses shall be conducted on all samples used in the acute toxicity test and reported under Monitoring Location T. Results shall also be included on the ATMR and submitted in accordance with Appendix B of this permit.</p> <p>⁸ The Permittee shall report the date of sample collection for the acute toxicity test and associated chemistry data in the format: year month day (YYYYMMDD).</p> <p>⁹ Total Nitrogen means the sum of the concentrations of: Total Kjeldahl Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be multiplied by the Total Daily Flow and converted to lbs/day.</p> <p>Remarks:</p> <ol style="list-style-type: none"> Abbreviations used for units are as follows: kg/day means kilograms per day; lbs/day means pounds per day; mg/L means milligrams per liter; mgd means millions of gallons per day; SU means Standard Units; mg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit); RDS means Range During Sampling; RDM means Range During Month. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR. Analyses that indicate that a parameter was not detected or that was detected less than the noted ML shall be reported in accordance with Section 4.6. 											