

Connecticut Department of Energy & Environmental Protection

Bureau of Water Protection & Land Reuse Remediation Division

Registration Form General Permit For In Situ Remediation: Chemical Oxidation

Part I: Registration Information: Please complete this form in accordance with the <u>instructions</u> (DEEP-REM-INST-002) to ensure the proper handling of your registration. Print or type unless otherwise noted. You must submit the registration fee along with this form.

CPPU USE ONLY
App #:
Doc #:
Check #:
Program: Remediation - General Permits
Pmt #:

A. This registration is for a (check all that apply):		DEEP REMEDIATION USE ONLY	(
☐ New general permit registration			
 Replacement of an individual permit or an emergency or temporary authorization 			
new <i>ownership</i>			
☐ Renewal of an existing registration			
☐ Modification of an existing registration			
B. For renewals, modifications, replacements or new ownership: 1. Existing permit number:			
2. Facility ID number:			
Existing expiration date:	RemGIS	RemID	scanned
C. Dates for existing activity or proposed dates Start: mm/dd/yyyy End: mm/dd/yyyy	D. City or	Town where site is located	d :
E. Brief Description of Project:			
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Part II: Fee Information: The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection.

The Base Registration Fee is \$500 [#1942] There is no charge for modifications.	A 50% discount applies if the registrant is a municipality: Municipality Reduction Taken (CGS 22a-6(b))
FEE ENCLOSED \$	Single family residence homeowners may request a waiver of the fee, even if they are not a registrant:
	Single Family Residence Waiver* (Complete signature box below)
* I am the owner of a single family residence while is the location where the pollution that is to be)
remediated originates, and I request a fee wa	iver. Homeowner's Signature

Part III-A: Registrant Information

- *If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant's name shall be stated exactly as it is registered with the Secretary of State. Please note: for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database (CONCORD). www.concord-sots.ct.gov/CONCORD/index.jsp.
- If an registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).
- If there are any changes or corrections to your company/facility or individual name, mailing or billing address, or contact information, please complete and submit the Request to Change Company/Individual Information to the address indicated on the form. If there is a change in the name of the entity holding a DEEP license or a change in ownership, contact the office of Planning and Program Development (OPPD) at 860-424-3003. For any other changes you must contact the specific program from which you hold a current DEEP license.

1.	Registrant:		
	Mailing Address:		
	City/Town:		Zip Code:
	Business Phone:	ext.:	
	Contact Person:	Phone:	ext
	*E-Mail:*By providing this e-mail address you are agreeing to receive official electronic address, concerning the subject registration. Please rem you can receive e-mails from "ct.gov" addresses. Also, please notify	ember to check	your security settings to be sure
	a) Registrant Type (check one): ☐ individual ☐ federal agency ☐ state agency		pality
	 □ *business entity (*If a business entity complete i thrown) check type: □ corporation □ limited liability con □ limited liability partnership □ stat ii) provide Secretary of the State business ID #: CONCORD database at www.concord-sots.ct.gov/CONC iii) □ Check here if your business is not registered with 	npany	Other: mation accessible through the
	b) Registrant's interest in property at which the proposed acceptable in th	easemen	t holder
	Check if there are any co-registrants . <i>If so</i> , provide, for requested above. Space is provided on page 3 for the proper owners who are co-registrants.	or each such a	dditional party, the information
2.	Billing contact, if different than the registrant:		
	Name:		
	Mailing Address:		
	City/Town: State: 2	Zip Code:	
	Business Phone:	ext	
	Contact Person:	Phone:	ext
	Title:		
	Email:		

Part III-B: Additional Party Information

	Owner of primary parcel where activity will occur, if different than registrant: N/A: Same as registrant Check if primary parcel owner is a co-registrant, and ensure registrant certification is included.						
	Name:						
	Mailing Address:						
	City/Town:						
	Contact Person:						
	Contact Phone:	ext.:					
	*Email:						
	*If a co-registrant, by providing this e-mail address you are ag department, at this electronic address, concerning the subject settings to be sure you can receive e-mails from "ct.gov" address changes.	registration. Please remember to check your security					
	Entity Type (check one):						
	individual federal agency state age	ency municipality tribal					
	□ *business entity (*If a business entity complete □ *business entity complete □ *business entity (*If a business entity complete □ *business entity co	e i through iii)					
	i) check type: corporation limited liability partnership	y company					
	ii) provide Secretary of the State business ID #: CONCORD database at www.concord-sots.ct.gov/0						
	iii) Check here if you are not registered with the	Secretary of State's office.					
IT	permission and access.	gistrant, describe now owner has granted					
	Access Summary:						
2.	List the primary technical contact (professional emplo	yed or retained to assist in preparing the					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity):	yed or retained to assist in preparing the Same as registrant					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name:	yed or retained to assist in preparing the Same as registrant LEP P.E					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm:	yed or retained to assist in preparing the Same as registrant LEP P.E License number:					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm: Mailing Address:	oyed or retained to assist in preparing the Same as registrant LEP P.E License number:					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm: Mailing Address: City/Town:	yed or retained to assist in preparing the Same as registrant LEP P.E License number: State: Zip Code:					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm: Mailing Address: City/Town: Contact Person:	yed or retained to assist in preparing the Same as registrant LEP P.E License number: State: Zip Code: Title:					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm: Mailing Address: City/Town: Contact Person: Contact Phone:	yed or retained to assist in preparing the Same as registrant LEP P.E License number: State: Zip Code:					
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2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm: Mailing Address: City/Town: Contact Person: Contact Phone: *Email: *By providing this e-mail address you are agreeing that this correspondence from the department, at this electronic address contact to check their security settings to be sure they can recorded.	oyed or retained to assist in preparing the Same as registrant LEP P.E License number: State: Zip Code: Title: ext.: ontact you have identified may receive official se, concerning the subject registration. Please ask this serive e-mails from "ct.gov" addresses. Also, please ask					
2.	List the primary technical contact (professional emploregistration and/or to design or supervise the activity): Name: Firm: Mailing Address: City/Town: Contact Person: Contact Phone: *Email: *By providing this e-mail address you are agreeing that this correspondence from the department, at this electronic address contact to check their security settings to be sure they can receive them to notify the department if their e-mail address changes.	oyed or retained to assist in preparing the Same as registrant LEP P.E License number: State: Zip Code: Title: ext.: ontact you have identified may receive official se, concerning the subject registration. Please ask this serive e-mails from "ct.gov" addresses. Also, please ask					

	Identification of Additional Parties [Expandable text entry area for users of electronic form]
Part	t IV: Site Location and Additional Parcels
1.	Identify, for the primary parcel associated with the area of proposed activity:
	Name of site:
	Is this name of the site the same as the name of the registrant? Yes No
	Is this the site of origin for the pollution being remediated?
	Street Address or Description of Location:
	City/Town: State: CT Zip Code:
	Tax Assessor's Reference: Map: Block: Lot:
	Latitude and longitude of the center of the proposed activity (in degrees, minutes, and seconds or in decimal degrees): Latitude: Longitude:
	Method of determination (check one):
	☐ GPS ☐ USGS Map ☐ CTECO ☐ Other (specify):
2.	Character of primary parcel (Check all that apply):
	☐ Retail/commercial ☐ Industrial/manufacturing ☐ Other nonresidential (specify below)
	☐ Single family residence ☐ Up to four residential units ☐ Other residential
	Explanation:
3.	Will the area of the proposed activity area or expected zone of influence extend beyond the boundary of the primary parcel identified above? Yes No
	If yes, Identify in Table 1 (on page 9) any other affected parcels and the owners of such other parcels, and indicate that you have obtained appropriate access permission.

Part V-A: Site Information- Site Setting

1.	Check all that apply to any parcel, in whole or in part, that includes an area of proposed activity or any part of the expected zone of influence (consult the instructions for additional information):
	A. Is within the coastal area as defined in CGS section 22a-94 (a),
	☐ Is within the coastal boundary as delineated on DEEP approved coastal boundary maps.
	If within the coastal boundary, and this registration is for a new authorization or for a modification of an existing registration, you must submit a Coastal Consistency Review Form (DEEP-APP-004) with your registration as Attachment G.
	B. Is located on federally recognized Indian lands.
	C. Is subject to conservation or preservation restriction.
	<i>If applicable</i> , proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment H.
	 D.
	If applicable, complete and submit a Request for NDDB State Listed Species Review Form (DEEP-APP-007) to the address specified on the form. Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant.
	When submitting this registration, please include copies of any correspondence to and from the NDDB, including copies of the completed CT NDDB Review Request Form, as Attachment I.
	☐ None of the above apply to any parcel that is the subject of this registration.
2.	Check all that apply to any part of the area of proposed activity, including access and support activity, or any part of the expected zone of influence:
	☐ Is within 100 feet of any watercourse, coastal water, inland wetland, or tidal wetland.
	☐ Is located within any identified floodplain.
	☐ Neither of the above applies to any area that is the subject of this registration.
3.	Provide, for the nearest downgradient stream or surface water body:
	A. Name of stream or water body:
	B. Distance (feet) from zone of influence:
	C. Surface water quality goal, as identified in the Connecticut Water Quality Standards adopted pursuant to CGS section 22a-426: AA B C D + Coastal (S prefix)
4.	Is any part of the area of proposed activity, including the predicted zone of influence, located within 1 mile of any public water supply well? Yes No

Part V-B: Site Information- Regulatory Framework

1.	Identify any remedial program creating an obligation to cond. A. Check all that apply to the primary parcel: CGS 22a-133x or CGS 22a-133y CGS 22a-134a (Prop. Transfer)	duct remediation: List Associated DEEP ID numbers:
	RCSA 22a-449(c)-105(h) (RCRA Corr. Act.)	
	☐ RCSA 22a-449(d)-(106) (UST Corr. Act.) ☐ Under a Pollution Abatement Order (CGS 22a-432	2)
	Brownfield program (specify)	
	None of the above apply to the primary parcel.B. For any other parcels where the zone of influence is pre	esent: N/A-No other parcels
	☐ Some of the above apply to a parcel other than the☐ None of the above apply to any other parcel in the a	primary parcel. If so, list on Table 1 .
2.	For sites in a remedial program, or under any active oversity A. LEP lead DEEP lead Not determined B. Name of supervising LEP: C. Name of DEEP project lead (if not LEP lead):	☐ Not in a remedial program License Number:
3.	A Check all that apply to the primary parcel: Regulated under RCRA Subtitle C / CGS 22a-449 Regulated under RCRA Subtitle D / CGS 22a-208 Registered with the DEEP Underground Tank Pro Issued a Water Discharge Permit under CGS 22a (excluding stormwater discharge permits) None of the above apply to the primary parcel. B. For any other parcels where the zone of influence is pre Some of the above apply to a parcel other than the	List Associated ID numbers: O(c) (HW) Ba (SW) Ogram 0-430 Pesent: N/A-No other parcels primary parcel. If so, list on Table 1.
4.	Other programs: Identify any additional DEEP programs (no governmental agencies that should be contacted when DEE	ot already noted above) or other

Part V-C: Site Information- Relation to Water Supplies

1.	Proximity to Public Water Supplies (PWS): Check all that apply for any part of the area of proposed activity or anticipated zone of influence:
	☐ Within a public water supply source water area:
	☐ Surface Water Watershed ☐ Groundwater Well Source Water Area
	☐ Upon water company owned land: Land Class: ☐ 1 ☐ 2 ☐ 3
	If any apply, provide PWS ID number(s):
	If any apply, a duplicate or certified copy of the registration form <i>and the supporting documents</i> must be filed with the Drinking Water Section of the Department of Public Health.
	Check here to certify that a copy was sent.
	□ None of the above apply to any part of the area of proposed activity or anticipated zone of influence.
2.	Identify the groundwater quality goal(s), adopted in the Connecticut Water Quality Standards pursuant to CGS section 22a-426, for any part of the area of proposed activity or anticipated zone of influence: GAA GAAS GA GB GB Other (specify):
3.	Proximity to water supply wells: Check all that apply for any part of the area of proposed activity or anticipated zone of influence:
	Located within 1000 feet of a public water supply well.
	☐ Within 200 feet of any water supply well pumping over 10 gallons per minute.
	☐ Within 75 feet of any water supply well not owned by registrant or primary parcel owner.
	A water supply well owned by registrant or primary parcel owner is within 75 feet.
	If any apply , a duplicate or certified copy of the registration form must be filed with the local director of health.
	Check here to certify that a copy was sent.
	☐ None of the above apply to area of proposed activity or anticipated zone of influence.
4.	A. List in Table 2 on page 9 of this registration all public water supply wells within 1000 feet and all water supply wells within 500 feet of the proposed activity or anticipated zone of influence. Indicate if no wells were identified for listing:
	B. Identify how the list was developed, or basis for determining no wells were present:
	☐ Well inventory conducted: Year: ☐ Other (explain below)
	Explanation:

Identify potential adverse environmental effects of the proposed activity on the site setting and receptors identified above in parts V-A and V-C and how these effects will be prevented. Also describe how these effects, should they occur, will be identified and mitigated, with particular attention to, but not limited to, a discussion of protection of water supply wells. Check here if continuation sheet is needed, and label and attach it to this sheet.

Part V-D: Site Information- Environmental Effect Mitigation (see instructions)

Table 1 Listing of Additional Parcels that include any part of the proposed activity or zone of influence (Consult instructions, and see questions IV.3, V-B.1.B and V-B.3.B)

[Expandable text entry area for users of electronic form]

Map/Block/Lot	Address	Owner	Phone	Character	Permission

Table 2 Identified Water Supply Wells

(Consult instructions, and see question V-C.4)

[Expandable text entry area for users of electronic form]

Address	Contact Name	Phone	Well/System type	Distance from ZOI	Remarks

DEEP-REM-REG-002 9 of 20 06/30/2014

Part VI-A: Detailed Information- Site and Pollution

1.		ensitive Site Receptors: Check all that apply within 25 feet of any part of the activity area or ne of influence; and explain in part VI-D how impact on identified receptors will be limited:
		Leaching system present.
		Coastal water, tidal wetland, inland wetland or watercourse present.
		Underground public utility present.
		☐ Subsurface stormwater collection or management system present.
		Private utility or subsurface structure present.
		Occupied basement present.
		Structure present and volatile organic chemicals or gasoline present.
		None of the above are present within 25 feet of the area of activity or zone of influence.
2.	Po	Illution Presence: Check all that apply: (provide discussion as needed in part VI-D)
	A.	Evidence of a release that discharge is proposed to treat:
Ì		☐ Quantitative ☐ Qualitative ☐ No evidence of release
		Identify nature of evidence:
		Identify mechanism for release:
	В.	Nature of pollution that activity is proposed to treat:
		☐ Petroleum Fuel ☐ Organic Solvent (specify)
		☐ PAHs ☐ Metals (specify)
		Other (specify)
	C.	Nature and origin of Petroleum Fuel Pollution: Not applicable; no petroleum fuel pollution
		☐ Heating Oil ☐ Other Petroleum Fuel (specify)
		☐ Yes ☐ No Release is associated with a tank system over 2,100 gallons in size.
		☐ Yes ☐ No Release is associated with a heating oil tank.
	D.	Evaluation of Non-Aqueous Phase Liquids (NAPL): Not applicable; no NAPL potential
		Yes No Don't Know or Not Applicable (provide discussion of either in part VI-D)
		Presence of non-aqueous phase liquid (NAPL) has been evaluated.
		NAPL likely is or was present at the location of the proposed activity.
		Basis for answer: CTRSR Cnap over 1% soluability product encountered
		Other (specify)
		Removal actions have been implemented for any NAPL present. (Summarize actions and results achieved in part VI-D discussion)
	E.	Contamination (non-natural) other than the target pollutant is present: Yes No
		If yes, Identify nature: Additional AOCs Polluted Fill/Urban Soil Other
		Describe:

3. Hydrogeology: Check all that apply:		
Yes No Don't Know or Not Applicable (provide discussion of either in part VI-D)		
☐ ☐ Water table is less than 15 feet above the bedrock surface.		
Aquifer permeability is determined: State range:		
Flow velocity is determined: State horizontal flow velocity:	_	
☐ ☐ Activity is within the area of influence of a high-yield (10 gpm) well.		
☐ ☐ Temporal flow variation exists: ☐ seasonal ☐ pumpage related		
☐ ☐ Significant vertical flow exists: State gradient ratio V:H:		
☐ ☐ Preferential flow pathways have been identified.		
☐ ☐ Aquifer heterogeneity was evaluated and considered in remediation de	sign.	
Explanations:		
A. Thudrono observiato a Chaple all that apply		
4. Hydrogeochemistry: Check all that apply:		
Yes No Don't Know or Not Applicable (provide discussion of either in part VI-D) Groundwater contains more than 10,000 mg/l petroleum or over 100 p	om VOCs	
Vertical contaminant distribution is known and considered in remedial of the second seco		
	· ·	
Groundwater/aquifer chemistry has been considered in design dosage	•	
Potential interactions with/mobilization of aquifer matrix may occur.		
Potential interactions with other pollutants present may occur.		
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
End, intermediate, or by-products may have environmental effects.		
Explanations:		
5. Zone of Influence (ZOI):		
• /	hickness	
B. Describe how the zone of influence depicted on the site map was determined:		

Part VI-B: Detailed Information- Activity Proposed

1.	A.	Identify the general discharge objective: Pilot Test Source Control Remediation Other Explain:
	B.	Identify the general nature of the technology proposed: In situ chemical
		Explain:
	C.	Identify the target environmental media: soil groundwater product
	D.	Identify the performance objective:
2.	Pri	imary Substance Discharged: (list chemical amounts in question 4, and chemical details in Attachment F)
	A.	Identify the primary substance(s):
	B.	Categorize the nature of the principal substance to be discharged for the proposed activity.
		Chemical Oxidant* (typically for chemical destruction of organic pollutants)
		*Specify: Metal Peroxide Percarbonate Other
		☐ Hydrogen Peroxide ☐ Permanganate ☐ Persulfate ☐ Ozone
		Other/Composite: Explain:
3.	Ad	Iditional Discharge Information: (provide discussion as needed in part VI-D)
	A.	Identify the nature of additional chemicals to be discharged (list chemicals in question 4)
		☐ Supplemental buffering chemicals.
		Surfactants
		☐ Activators
		Other- Identify role:
	B.	Design/dosage based on Bench Testing Pilot Testing Other
	_	Explain:
	C.	Identify any residual that will remain in the subsurface after the discharge period:

4.	4. Substances and Dosage			
	List all substances to be discharged, identify the reason/role for their use, provide the proposed total discharge amounts for each discrete discharge period or event, and identify the proposed concentrations if solutions are to be used. Include units of measurement. Provide, in Attachment F, information about each substance to the extent required by the General Permit, including for proprietary chemicals identification of all specific chemical constituents, and, as may required by the General Permit, Safety Data Sheets, evaluation of impurities and additives, and identification of appropriate monitoring parameters for the proposed use.			
Su	bstance	Role	Total Amount	Concentration
5.	Delivery mechanism: Identify	how the substances will be intr	oduced into the sub	osurface
	A. Check all that apply:			
	Emplacement in an op	en excavation resulting from re	moval of a tank or p	oolluted soil.
	☐ Emplacement of remove	vable devices. Identify:		
	☐ Injection or emplaceme	ent on or below the ground surf	ace:	
	☐ Single use ☐ Constructed ☐ Existing wells ☐ Other injection points multi-use points repurposed			her
	Describe:			
	Alternative delivery mechanism/source. Identify:			
	B. Injection specifics (per discharge period or Discharge Event):			
	Total discharge Volume (gal.):			
	Number of injection locations:			
	Rate per point (range) (gpm):			
	Expected pressure range (psi):			
	C. Depth range of discharge: Below Surface:			
	Below Water Table:			

6.	Other Considerations	S (provide discussion in part VI-D):
	A. Yes No	Activity will result in introduction of chemicals into or on bedrock, or within 2 feet of the bedrock surface.
	B. Yes No	Injection pressures are above 30 psi, or are intended or likely to alter aquifer hydrogeologic properties.
	C. Yes No	Hydraulic controls associated with site infrastructure passively establish the Zone of Influence.
	D. Yes No	An active groundwater or soil vapor system is proposed to establish the Zone of Influence or limit the migration of vapors.
	E. Yes No	Reinjection of treated or untreated water is proposed.
	F. Yes No	Energy or surfactants will be used to mobilize pollutants for treatment.
	G. Yes No	A groundwater or soil vapor remedial system is currently in operation at the site to protect receptors from exposure or control pollutant migration.
	H. 🗌 Yes 🗌 No	More than 50,000 gal/day of water/solution will be managed.
	I. Yes No	Recurring scheduled discharge periods or multiple Discharge Events are proposed.
	Summarize any mult	iphase schedule:

Part VI-C: Detailed Information- Monitoring Proposed

Permit Compliance Mo	onitoring:			
A. Identify receptors t	o be monitored:			
☐ Water Supply Wells (public/priv			Indoor Air Pathway	
Other Explain:				
B. How many wells/po	pints will be used to monitor the lim	its of the zone of influence	e?	
C. How many wells/po	pints will monitor chemical condition	ns within the zone of influ	ience?	
D. 🗌 Yes 🗌 No F	ield observations and field parame	ter monitoring are propos	sed.	
E. 🗌 Yes 🗌 No V	erification of injected chemical ana	llysis/concentrations is p	roposed.	
n	The monitoring plan proposes location of meet the minimum requirements Explain and provide justification in the second control of th	s in Section 5(b) of the G		
2. In the tables below, su	mmarize the nature of the complia	nce monitoring program		
Monitoring Well Location(s	Objective(s)	Parameter Group(s)*	Frequency*	
Other Monitoring Sites(s)	Objective(s)	Parameter Group(s)*	Frequency*	
*Parameter Group	Constituents Analyzed	Objective(s)		
Example A field parameters	DO, DCO2, pH, ORP, Cond., Turbidity, Temp., V	Ntr Lvl Real time results, ma	p chemical effects	
*Frequency Du	ring Active Discharge	Post-Discharge		
<u> </u>				
3. Rebound: Identify how	the occurrence of rebound will be	evaluated:		

4.	Otl	her Monitoring Information:
	A.	Summarize how monitoring frequency and duration take into account site groundwater flow conditions, discharge chemodynamics, receptor locations, and the activity timeline:
	B.	Identify any changes in monitoring frequency (or parameters) associated with the shift from active injection to post injection monitoring, and the rationale for such modifications:
	C.	Identify any indicator or surrogate parameters used and the rationale for their selection:
	D.	Summarize any monitoring that incorporates approaches other than field or laboratory measurement of water samples from wells:
5.	Otl	ner Monitoring Considerations:
	A.	Describe how the pre-discharge baseline condition for monitoring comparisons has been or will be established prior to initiation of the discharge:
	B.	Summarize any operational or process monitoring of the discharge that will be conducted:
	C.	Identify any other periodic monitoring being conducted at the site that relates to the pollution being remediated or that may be affected by the discharge:
	D.	Identify if any wells used for the discharge will later be used for compliance or verification monitoring, and how sample representativeness for the data objective will be evaluated:
6.		ntify any difference in the Monitoring Plan from the minimum monitoring requirements in ction 5(b) the General Permit and provide supporting justification:

Part VI-D: Detailed Information- On-site Adverse Outcome Mitigation Describe how adverse outcomes associated with site conditions identified in Part VI-A and

the specific proposed activities identified in Part VI-B will be prevented or minimized by the proposed activity design and implementation, how monitoring identified in Part VI-C will allow adverse outcomes to be identified, and the contingencies for mitigation of adverse outcomes should any occur. Also discuss any identified data gaps and how they are either not significant or will be addressed during implementation.
☐ Check here if continuation sheet is needed, and label and attach it to this sheet.

Part VII-A: Supporting Documents

Identify, by checking the box, each specific lettered attachment being submitted with this registration form, and provide information regarding their content. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

Attachment A: An 8 1/2" X 11" copy of the relevant portion or a full-sized original of a USGS Quadrangle Map indicating the exact location of the facility or site, required nearby features and <i>Latitude and Longitude</i> (DEEP-APP-003). Indicate the quadrangle name on the map.
Attachment B: Site Conditions Report, including: Characterization and origin of release being treated Description of previous remedial actions Identification of relevant site conditions and history Characterization of hydrogeology and water chemistry Identification of receptor or transport pathways
Attachment C: Site Plan(s), including: Basic site boundaries Cross section(s) Location of significant site features Depiction of release, plume, & other AOCs Location of wells and other data points Specific proposed discharge location(s) Location(s) of receptors/pathways Monitoring locations
Attachment D: Work Plan, including, but not limited to: Rational for technology selection / remedial goal Identification of all substances to be discharged Reason needed/evaluation of substances identified in VI-B Evaluation of byproducts produced / interaction with aquifer Bench/pilot study results, or reason unnecessary Calculation of chemical dosage and distribution Description of discharge mechanisms Chemical handling measures Site safety measures Contingency measures Discussion of multiphase implementation approach
Attachment E: Monitoring Plan, including: found on page(s): Monitoring program objectives Monitoring locations and frequencies, and rationale/objective Monitoring constituents/parameters and rationale Monitoring sampling and analytical methods Data evaluation and reporting procedures
Attachment F: Specifications for substances to be discharged, as applicable.
Attachment G: Coastal Consistency Review Form (DEEP-APP-004), if applicable.
Attachment H: Conservation or Preservation restriction information, if applicable.
Attachment I: CT NDDB Information, if applicable, including CT NDDB Request Form (DEEP-APP-007).

Part VII-B: Technical Certification

Certification prepared by a Licensed Environmental Professional (LEP) or Professional Engineer (P.E.) as required in Section 4(c)(4)(B) of the General Permit.

"I certify that I have reviewed the: site conditions report, including the past and present uses of the site and fill history; site plan; work plan; and monitoring plan; and, if applicable, results of screening samples included with this registration and any other site characterization samples. I certify, based on such review and on my professional judgment, that any constituent of concern list includes all known non-petroleum potential pollutants present in the area of proposed activity or zone of influence and that the proposed activities are based on a site characterization that, for the area of interest, is consistent with prevailing standards and guidelines.

I also certify that I have reviewed the proposed activities and, based on such review and on my professional judgment, I certify that the activity design, specifications, and implementation procedures are appropriate to remediate the pollution present at the area of the site where activity is proposed. I also certify that the oversight and monitoring provisions, and contingency measures, described in the work plan and/or monitoring plan, were developed to be substantially consistent with prevailing standards and guidelines, and the proposed activities are not expected to cause changes in groundwater or surface water quality beyond the designated zone of influence, are not expected to adversely affect any identified underground source of drinking water supply or water supply well, are not expected to create any explosion hazard or adversely affect indoor air quality in structures overlying the expected zone of influence, and are not expected to adversely affect any underground utilities, underground structures or leaching fields in the expected zone of influence.

I also certify that, in my professional judgment, the proposed work plan and monitoring plan considered potential adverse effects that could reasonably be expected to impact the site, and provide a mechanism to address and mitigate such effects."

"I am aware that any professional services rendered pursuant to this general permit shall conform to the applicable rules of professional conduct of the Regulations of Connecticut State Agencies (for P.E.s section 20-300-12(a) and for LEPs section 22a-133v-6). I am also aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

Affix seal here

Signature of Licensed Environmental Professional or Professional Engineer	
Date	
Name of Licensed Environmental Professional or Professional Engineer (print or type)	
Title (if applicable)	License Number

Part VIII: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided. If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true. accurate and complete to the best of my knowledge and belief. I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute." "I certify that I have read the General Permit for In Situ Remediation: Chemical Oxidation issued by the Connecticut Commissioner of Energy and Environmental Protection; that the activities which are the subject of this registration are eligible for authorization under such permit; that if such activities commenced prior to the issuance of such permit, all applicable requirements of such permit are being met; and that a functioning and effective system is in place to assure that all such requirements are met so long as the activities which are the subject of this registration continue." I understand that the subject activity is authorized only on or after the date the commissioner issues a written approval of registration or certificate of coverage with respect to such activity. Signature of Registrant Date Title (if applicable) Name of Registrant (print or type) Signature of Preparer (if different than above) Date Name of Preparer (print or type) Title (if applicable) П Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies after this sheet. You must include signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.).

Note: Please submit a completed Registration Form, Fee, and all Supporting Documents to:

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

Space in electronic version of form to insert additional pages of certifications for Part VIII