

The background of the slide is an abstract, textured composition of brushstrokes. The top portion is dominated by various shades of blue, ranging from light sky blue to deep, dark navy. Below this, there are broad, sweeping strokes of vibrant green and teal. The bottom section features darker, more muted tones, including deep browns and blacks, with some lighter, golden-brown highlights. The overall effect is a sense of movement and depth, reminiscent of a landscape painting or a microscopic view of a natural process.

Remediation Roundtable

March 21, 2023

Remediation Roundtable Agenda

Announcements:

- Website Updates
- Large-Scale Beneficial Reclamation Pilot
- Personnel Changes

Roundtable Tips:

- Filling out your Property Transfer Fee Payment Form
- Searching the Public Portal and Scanning Update

Updates:

- Release-Based Clean Up Program Regulation Development Updates
- QA/QC Workgroup Updates: RCP Refresh
- PFAS Action Plan



Announcements

- LEP Renewal Applications are due June 1st
 - Notices were sent via email if you did not get one, check your junk email box and email Liz McAuliffe
 - Renewal licenses will go out via email in late May or early June
 - The license is on the second page of the attachment and the first page is a cover letter



Questions or Comments?

Please type your Questions into CHAT

If we need further clarification, we may take you
off mute to speak

www.ct.gov/deep/remediationroundtable



Webpage Updates

- [Release-Based Clean Up Program Regulation Development](#)
- [Stakeholder Engagement Advice and Recommendations](#) - DEEP is sharing the Third Phase Subcommittee Concept Papers for your feedback. Please submit comments to DEEP.Cleanup.Transform@ct.gov by Friday, March 31, 2023.
- [Release-Based Cleanup Program Topical Subcommittees](#)
- [List of Contaminated or Potentially Contaminated Sites in Connecticut](#)
- [List of Significant Environmental Hazards Reported to DEEP](#)



Webpage Updates

- Per- and Polyfluoroalkyl Substances (PFAS)
 - PFAS Information for Environmental Professionals **NEW!**
 - PFAS in Class B Firefighting Foam **NEW!**
 - Private Wells and PFAS **NEW!**
 - PFAS Information for Municipalities **NEW!**
 - PFAS Task Force



Webpage Updates

- [State Board of Examiners of Environmental Professionals \(LEP Board\)](#)
- [Licensed Environmental Professional \(LEP\) Application Forms](#)
- [Examples of Stewardship Permits Issued](#)
- [Environmental Land Use Restrictions](#)
- [Notices of Activity and Use Limitation](#)
- [Scanning Project Progress](#)
- [Remediation Division Contacts](#)



Webpage Updates

Forms

- [General Permit for In Situ Groundwater Remediation: Enhanced Aerobic Biodegradation](#) registration form & instructions – fixed/replaced broken links & updated submittal instructions
- [General Permit for In Situ Remediation: Chemical Oxidation](#) registration form & instructions – fixed/replaced broken links & updated submittal instructions
- [Property Transfer Program](#) Forms and Instructions- updated submittal instructions and streamlined instructions
- [LEP Verifications](#) – Updated verification forms and instructions
- [Environmental Condition Assessment Form](#) and [Instructions](#) – **Major revisions** New ECAF must be used after May 31, 2023



ECAF Revisions

- 10 years since previous ECAF; 13 years since previous ECAF instructions
- Order more intuitive - Environmental Setting before Environmental Assessment
- Simplified instructions
- Replaced references with links
- Addressed annoying page spillover issues



ECAF Revisions

Expanded applicability section to address all reasons an ECAF could be filed

stand-alone document, do not reference any attachments with the exception of maps and receptor survey
detailed directions on completing each part of the ECAF, refer to the [instructions](#).

Check the box to indicate the program for which this form is being submitted:				REM#	
<input type="checkbox"/>	Connecticut General Statutes (CGS) § 22a-134a(a)-(e), Property Transfer filing			GIS#	
<input type="checkbox"/>	CGS section 22a-133x, Voluntary Remediation				
<input type="checkbox"/>	Brownfield Program (specify) <input type="text"/>				
ECAF for:	<input type="checkbox"/> Entire Property	<input type="checkbox"/> Release Area	<input type="checkbox"/> Portion of Property	<input type="checkbox"/> Business Only	DEEP User

Part I: Site Identification



ECAF Revisions

Added Contaminants of Emerging Concern section

Part IV: Site History (continued)

6. Emerging Contaminant Consideration

Sampling for [emerging contaminants](#) should be considered at sites or near areas where the following activities may have occurred or where related wastes have come to be located. Please check any of the following historical business operations, land uses, or known incidences that apply at the site. Indicate if emerging contaminants not mentioned here were used onsite and indicate the potential contaminant and associated site use.

- | | |
|---|---|
| <input type="checkbox"/> Chemical manufacturers | <input type="checkbox"/> Sites where chlorinated solvents and/or degreasers were used (1,4-Dioxane) |
| <input type="checkbox"/> Application of coatings, waxes, paints, varnishes, inks, dyes, sealants, lubricants, adhesives, resins, including fluoropolymer coatings, and oil and water repellent coatings and finishes (PFAS & 1,4-Dioxane) | <input type="checkbox"/> Locations where Class B firefighting foams (AFFF) may have been used or spilled, such as firefighting training areas, fire stations, aviation facilities, rail yards, certain building fire suppression systems, fuel terminals, chemical plants, current or former DoD sites, and aircraft, train, and motor vehicle crash sites (PFAS) |
| <input type="checkbox"/> Cleaning products (PFAS & 1,4-Dioxane) | <input type="checkbox"/> Electronics, semiconductors, and aerospace applications (PFAS) |
| <input type="checkbox"/> Dry cleaning, especially non-PCE systems (PFAS) | <input type="checkbox"/> Automotive and aviation parts, including auto interior textiles, gaskets, hoses, insulation, etc. (PFAS) |
| <input type="checkbox"/> Metal plating and finishing, especially mist suppression in plating (PFAS) | <input type="checkbox"/> Landfills, wastewater treatment plants, recycling & material recovery, junkyards, paper/cardboard composting (PFAS & 1,4-Dioxane) |
| <input type="checkbox"/> Medical uses, including manufacture of medical devices, diagnostic imaging, and medical supplies and fabrics (PFAS) | <input type="checkbox"/> Textiles, including firefighting protective gear, automotive, industrial, outdoor and medical textiles, awnings, carpets, upholstery. (PFAS & 1,4-Dioxane) |
| <input type="checkbox"/> Etching (metal, glass, and plastic) (PFAS) | <input type="checkbox"/> Packaging, paper, and cardboard, especially coated (PFAS & 1,4-Dioxane) |
| <input type="checkbox"/> Plastics, polymer, or rubber production (PFAS & 1,4-Dioxane) | <input type="checkbox"/> Munitions, explosives, and propellants, especially for military use (PFAS & Perchlorate) |
| <input type="checkbox"/> Photography, lithography, X-ray film, film production and processing (PFAS) | <input type="checkbox"/> Biosolids or biosolid-based fertilizer applications (PFAS) |
| <input type="checkbox"/> Antifreeze production and aircraft deicing (1,4-Dioxane) | <input type="checkbox"/> Pesticides and fertilizers (PFAS & 1,4-Dioxane) |
| <input type="checkbox"/> Car washes (PFAS & 1,4-Dioxane) | |
| <input type="checkbox"/> Pharmaceuticals, cosmetics, and personal care products (PFAS & 1,4-Dioxane) | |

Other emerging contaminants/uses:

Unknown. Phase I ESA not completed

Was the potential presence of emerging contaminants evaluated? Yes No

Were lab analyses for emerging contaminants done? Yes No

Provide explanation for "No" answers:



ECAF Revisions

- Simplified Contaminants Table by requesting Maximum Concentration >RSRs
- Moved example table to Instructions

Example Table

Area of Concern and Name	Material, Quantity, and Date Released	Phases of Investigation Completed	Contaminants of Concern	List All Compounds Detected in Soil	Compounds Detected in Soil [Sediment] >RSRs (Max. Conc. and Depth)	Volatilized Compounds Detected in Soil Vapor (Max. Conc.)	List All Compounds Detected in Groundwater	Compounds Detected in Groundwater >RSRs (Max. Conc. and Depth)	Remediation Status and Date
AOC-1 Tank Farm	No. 2 Fuel Oil (~500gal) 1997 and dichromate wastewater (200gal) 7/15/85	I--10/5/98 II--7/9/00 III--6/1/01	ETPH, Metals	ETPH Cr	ETPH 1000 ppm (4-6') Cr 56 ppm (5-7') [Cr 0.6 ppm] (0-2')	NT	ETPH	ETPH 271 ppb (0=5-15')	soil removed 9/1/01
AOC-2 Dry Cleaning Machine	PCE UNK before 11/13/97	I--10/5/98 II--7/9/00	CVOCs	PCE TCE	PCE 500 ppm (0-2')	PCE 10 ppmv TCE 8 ppmv	PCE 11DCE TCE	PCE 50 ppb 11DCE 15 ppb (B=20-25')	further investigation planned
AOC-3 Dumpster		I--10/5/98 II--7/9/00	ETPH, Metals	As	<12 ppm> (0-2')	NT	none	none	no further action

Section Break (Continuous)

Additional Contaminants	Abbreviations

Key

NT	not tested
UNK	unknown
<->	background / naturally occurring
[]	sediment
O	overburden
B	bedrock

Section Break (Next Page)



Questions or Comments?

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LARGE-SCALE BENEFICIAL RECLAMATION PILOT

Presented by: **Gabrielle Frigon, Director WEED/MMCA**
Remediation Roundtable March 21, 2023



CT DEEP LARGE-SCALE BENEFICIAL RECLAMATION PILOT PROGRAM

- DEEP has been approached about several proposed projects for large-scale filling with contaminated soils and other materials
- Two pathways for authorization:
 - 1. Use of Polluted Soil per RCSA 22a-133k-1 et seq. or**
 - 2. Landfill permit per CGS Sec. 22a-208a**
- In early 2019 WEED and Remediation Division established a work group to develop an alternative to the two options
- Evaluated Massachusetts' Reclamation Policy
 - **Authorizes sites through an order for large fill projects**
 - **Minimum 100,000 cubic yards of fill**
 - **Sites limited to quarries, sand pits and gravel pits**



CT DEEP LARGE-SCALE BENEFICIAL RECLAMATION PILOT PROGRAM

- DEEP used Material Acceptance Protocol as the starting point – used in other projects and for Stewardship Permits
- Impaired or underutilized locations needing redevelopment/revitalization
- Siting criteria included consideration of the site’s environmental setting
- Eligibility of sites to consider the placement site’s environmental condition
- WEED, MMCA/Office of Policy and Planning and Remediation Division developed minimum requirements by EOY 2019
- Presented to Commissioner for green light in January 2020
- MMCA/OPP began drafting legislative proposal for work group discussion and vetting by Legal Counsel’ s office
- Legislation proposing the pilot program submitted in September 2020 for the 2021 Session

CT DEEP LARGE-SCALE BENEFICIAL RECLAMATION PILOT PROGRAM

- Public Act 21-88 codified as [CGS Section 22a-209f\(c\)](#) authorized:
 - **Up to four sites**
 - **Minimum of 100,000 cubic yards needed to redevelop**
 - **Defined “Beneficially reclaimed materials”**
- Law requires:
 - **Siting - Ground Water Quality GB or GC, served by public water and not an Aquifer Protection Area**
 - **Before an application can be submitted – Environmental Justice Law components & all local approvals**
 - **Minimum application components – M.A.P., Redevelopment Plan, Placement Tracking Plan, Water Quality Monitoring Plan (during and after filling operations), Financial Assurance, EP oversight and Characterization of the placement location**
 - **Development of Guidelines by DEEP and a public notice for comments**

CT DEEP LARGE-SCALE BENEFICIAL RECLAMATION PILOT PROGRAM

- Law allows:
 - Investigation & remediation as needed prior to placement of fill
 - No “reuse in accordance with” provision of the RSRs
 - No GW Discharge permit unless required by the Clean Water Act
 - Closure Plan and Post-closure maintenance and monitoring

- Next Steps:
 - Review of the guidelines by BCs and DC
 - Posting of public notice to allow for public comment
 - Stakeholder information meeting
 - Finalize the guidelines
 - Develop application form and instructions

Questions or Comments?

Please type your Questions into CHAT

If we need further clarification, we may take you
off mute to speak

www.ct.gov/deep/remediationroundtable





REMEDIATION DIVISION PERSONNEL CHANGES

Ray Frigon: Assistant Division Director, Remediation Division

Remediation Division Organizational Chart

**Division Director
Vacant**

**Ray Frigon
Assistant
Division Director**

**Northwest
District**

**Southwest
District**

**South Central
District**

**North Central
District**

**Supervisor
Carl Gruszczak**

**Supervisor
Kevin Neary**

**Supervisor
Mark Lewis**

**Supervisor
Claire Quinn**

Sheila
Gleason

Amanda
Limacher

Elizabeth
McAuliffe

Jade
Barber

Steve Gaura

Jeff
Wilcox

Stefani Battles

John Duff

Amy
Richardson

Kevin
Vanderveer

Teddy
Brightwell

Tony Allevo

Monica
Meschiatti

Kelsey
Shields

Sarah
McQuade

Carolyn
Fusaro

Abby
Davis

Abigail
Plungis

Craig
Bobrowiecki

Jeff Brais

Katherine Nee

Ryan
Mowrey

Remediation Division Organizational Chart

Eastern District

Supervisor
Tiziana Shea

Jing Chen

Michael Senyk

Roni Tanguay

Peter Zaidel

Normandy Avery

Coordination and Support

Supervisor
Shannon Pociu

Joanna Burnham

Lynn Olson-Teodoro

Selena Thornhill-Moody

Meena Mortazavi

Geeta Dahal

Questions or Comments?

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ROUNDTABLE TIP: PROPERTY TRANSFER PROGRAM FEE PAYMENT FORM OVERVIEW

Joanna Burnham: Environmental Analyst, Remediation Division

WHY IS THE ACCURACY OF THE FEE PAYMENT FORM IMPORTANT TO THE ELECTRONIC PROCESS?

1. Clearly specifies the Payor information for Central Permit Processing Unit (CPPU)
2. Initial data for the Property Transfer Program (PTP) filing is entered in the Case Management System (CMS) from the fee payment form
3. Accuracy of information on the PTP form, minimizes additional research and further delay
4. Ease when reconciling the fee payment form with the electronic copy of the uploaded documents in the SFT portal.



Property Transfer Fee Payment Form

Fees are payable pursuant to Section 22a-134e of the Connecticut General Statutes (CGS) for the Transfer of Establishment CGS Section 22a-134a, Forms I-IV.

Corporate checks, bank checks or money orders made payable to the Department of Energy and Environmental Protection will be accepted. Send to:

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

DEEP CPPU USE ONLY

- Transferor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
- Transferee:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
- Establishment:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
- Date of Transfer:** []
- Certifying Party** (as referenced in Forms III & IV): []
- Payor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
Phone: []
- Filing Fee** (Please check the appropriate fee paid).
 Form I \$375.00
 Form II \$1,300.00 (Higher fees may be applicable; refer to CGS Section 22a-134e for fee.)
 Form III Initial Fee \$3,000.00
 Form IV Initial Fee \$3,000.00



Department of Energy & Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm St., Hartford, CT 06106-5127
www.ct.gov/deep/remediation

Transfer of Establishment Form I (REAL ESTATE)

All sections of this form must be completed. Do not leave any portions blank. AN ENVIRONMENTAL CONDITION ASSESSMENT FORM (ECAAF) MUST BE SUBMITTED SIMULTANEOUSLY WITH THIS FORM I.

(DEEP use only)
RLI #:
REM #:

Section A: General Establishment Information

- EPA (RCRA) ID No.: CT []
- Type of Transfer** (business, assets, etc.): []
- Identification of Establishment** (give name of business which exists/existed on-site)
 Establishment Name: []
 Location: []
 City/Town: [] State: CT Zip Code: []-[]
 Phone: []-[]-[] ext. [] e-mail*: []
 Contact Person: [] Title: []
 DATE OF TRANSFER: [] / [] / 20[]
 From Transferor: []
 To Transferee: []
- Transferor**
 Name: []
 Legal Mailing Address: []
 City/Town: [] State: [] Zip Code: []-[]
 Phone: []-[]-[] ext. []
 Contact Person: [] Title: []
 e-mail*: []
- Property Owner** (as it appears in land records directly prior to this transfer)
 Name: []
 Legal Mailing Address: []
 City/Town: [] State: [] Zip Code: []-[]
 Phone: []-[]-[] ext. []
 Contact Person: [] Title: []
 e-mail*: []
- A map of the property location must be submitted with this form.**



Property Transfer Fee Payment Form

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Department of Energy and Environmental Protection
79 Elm St.
Hartford, CT 06106-5127

DEEP CPPU USE ONLY

1. **Transferor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []

2. **Transferee:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []

3. **Establishment:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []

4. **Date of Transfer:** []

5. **Certifying Party** (as referenced in Forms III & IV): []

6. **Payor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
Phone: []

7. **Filing Fee** (Please check the appropriate fee paid).
 Form I \$375.00
 Form II \$1,300.00 (Higher fees may be applicable; refer to CGS Section 22a-134e for fee.)
 Form III Initial Fee \$3,000.00
 Form IV Initial Fee \$3,000.00

Section B: Transferor Certification (This section must be completed by transferor, signed and notarized)

Description in Property Deed:
Recorded on page [] of volume [], of the Town of []
land records, as lot [], block [] on map [] in the Tax Assessor's Office.

"I hereby certify that, based upon an investigation of the parcel performed in accordance with prevailing standards and guidelines, that there has been no discharge, spillage, uncontrolled loss, seepage or filtration of hazardous waste at the establishment and (A) no discharge, spillage, uncontrolled loss, seepage or filtration of a hazardous substance has occurred at the establishment or (B) the Commissioner has determined or a Licensed Environmental Professional has verified that any discharge, spillage, uncontrolled loss, seepage or filtration of a hazardous substance at the establishment has been remediated in accordance with the Remediation Standard Regulations."

"I have personally examined and am familiar with the information submitted in this document, and all attachments thereto, including inquiry of those individuals immediately responsible for obtaining such information, and certify that the submitted information is true, accurate and complete, to the best of my knowledge and belief. I am aware that if I knowingly submit false information or fail to comply with the provisions of CGS Sections 22a-134 to 22a-134e, I may be subject to damages and penalties pursuant to CGS Sections 22a-134(b and d) and an enforcement action pursuant to CGS Section 22a-134(j).

"I further certify that I submitted this Form I to the Transferee prior to the transfer of establishment."

"This Form I is complete and accurate as prescribed by the Commissioner without alteration of the text."

This must be signed by an individual(s), if in such capacity; a responsible corporate officer; partner in a partnership; member of an LLC, as applicable.

Authorized Signature(s) for Transferor []
Name of person signing (print or type) [] Title (if applicable) []

Transferor: []
Legal Mailing Address: []
City/Town: [] State: [] Zip Code: []
Phone: []- []- [] ext. []
e-mail*: []

Forwarding Address After the Transfer, if different from above:
Address: []
City/Town: [] State: [] Zip Code: []
Phone: []- []- [] ext. [] e-mail*: []
STATE OF [] }
COUNTY OF [] } SS. []
(Town)

The foregoing was subscribed to and sworn to before me this [] day of [], 20 []
by []
(Name of Signatory, Title and Company, if applicable)

who personally appeared, and that person, as such, satisfactorily proven to be authorized to do so, as Transferor, executed the foregoing instrument for the purposes therein contained.

Signature of Notary/Commissioner of Superior Court []
My commission expires []/[]/[] .

Name of Notary/Commissioner of Superior Court (print or type) []



Property Transfer Fee Payment Form

Fees are payable pursuant to Section 22a-134e of the Connecticut General Statutes (CGS) for the Transfer of Establishment CGS Section 22a-134a, Forms I-IV.

Corporate checks, bank checks or money orders made payable to the Department of Energy and Environmental Protection will be accepted. Send to:

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

DEEP CPPU USE ONLY

- Transferor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
- Transferee:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
- Establishment:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
- Date of Transfer:** []
- 5. Certifying Party (as referenced in Forms III & IV):** []
- Payor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
Phone: []
- Filing Fee (Please check the appropriate fee paid).**
 Form I \$375.00
 Form II \$1,300.00 (Higher fees may be applicable; refer to CGS Section 22a-134e for fee.)
 Form III Initial Fee \$3,000.00
 Form IV Initial Fee \$3,000.00

Section C: Transferor Certification (This section must be completed by transferor, signed and notarized)

Description in Property Deed:
Recorded on page [] of volume [], of the Town of []
land records, as lot [], block [] on map [] in the Tax Assessor's Office.

"I hereby certify that, based upon an investigation of the parcel in accordance with prevailing standards and guidelines, any pollution caused by a discharge, spillage, uncontrolled loss, seepage, or filtration of hazardous waste or a hazardous substance which has occurred at the parcel has been remediated in accordance with the remediation standards and that the remediation has been approved in writing by the Commissioner or has been verified by an LEP to have been performed in accordance with the Remediation Standard Regulations or the Commissioner of DEEP has determined, or an LEP has verified, that no remediation is necessary to achieve compliance with the Remediation Standard Regulations."

"I have personally examined and am familiar with the information submitted in this document, and all attachments thereto, including inquiry of those individuals immediately responsible for obtaining such information, and certify that the submitted information is true, accurate and complete, to the best of my knowledge and belief. I am aware that if I knowingly submit false information or fail to comply with the provisions of CGS Sections 22a-134 to 22a-134e, I may be subject to damages and penalties pursuant to CGS Sections 22a-134(b and d) and an enforcement action pursuant to CGS Section 22a-134a(j). I further certify that I submitted this Form II to the Transferee prior to the transfer of establishment."

"This Form II is complete and accurate as prescribed by the Commissioner without alteration of the text."

This must be signed by an individual(s), if in such capacity; a responsible corporate officer; partner in a partnership; member of a LLC, as applicable.

Authorized Signature(s) for Transferor
[]

Name of person signing (print or type) [] Title (if applicable) []

Transferor: []
Legal Mailing Address: []
City/Town: [] State: [] Zip Code: []- []
Phone: []- []- [] ext. []
e-mail*: []

Forwarding Address After the Transfer, if different from above:
Address: []
City/Town: [] State: [] Zip Code: []- []
Phone: []- []- [] ext. [] e-mail*: []
STATE OF [] }
COUNTY OF [] } SS. []
(Town)

The foregoing was subscribed to and sworn to before me this [] day of [], 20 []
by []
(Name of Signatory, Title and Company, if applicable)

who personally appeared, and that person, as such, satisfactorily proven to be authorized to do so, as Transferor, executed the foregoing instrument for the purposes therein contained.

Signature of Notary/Commissioner of Superior Court [] Name of Notary/Commissioner of Superior Court (print or type) []
My commission expires []/[]/[] .



Property Transfer Fee Payment Form

Fees are payable pursuant to Section 22a-134e of the Connecticut General Statutes (CGS) for the Transfer of Establishment CGS Section 22a-134a, Forms I-IV.

Corporate checks, bank checks or money orders made payable to the Department of Energy and Environmental Protection will be accepted. Send to:

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

DEEP CPPU USE ONLY

1. **Transferor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
2. **Transferee:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
3. **Establishment:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
4. **Date of Transfer:** []
5. **Certifying Party** (as referenced in Forms III & IV): []
6. **Payor:** []
Mailing Address: []
City/Town: [] State: [] Zip Code: []
Phone: []
7. **Filing Fee** (Please check the appropriate fee paid).
 - Form I \$375.00
 - Form II \$1,300.00 (Higher fees may be applicable; refer to CGS Section 22a-134e for fee.)
 - Form III Initial Fee \$3,000.00
 - Form IV Initial Fee \$3,000.00

Section B: Certification (This is the certifying party as defined in CGS Section 22a-134(6))

Description in Property Deed:

Recorded on page [] of volume [], of the Town of []

land records, as lot [], block [] on map [] in the Tax Assessor's Office.

"As the certifying party, I certify that a discharge, spillage, uncontrolled loss, seepage or filtration of hazardous waste or a hazardous substance has occurred at the establishment or the environmental conditions at the establishment are unknown."

"I agree to investigate the parcel in accordance with prevailing standards and guidelines and to remediate pollution caused by any release of a hazardous waste or hazardous substance from the establishment in accordance with the remediation standards."

"I have personally examined and am familiar with the information submitted in this document, and all attachments thereto, including inquiry of those individuals immediately responsible for obtaining such information, and certify that the submitted information is true, accurate and complete, to the best of my knowledge and belief. I am aware that if I knowingly submit false information or fail to comply with the provisions of CGS Sections 22a-134 to 22a-134e, I may be subject to damages and penalties pursuant to CGS Sections 22a-134(b and d) and an enforcement action pursuant to CGS Section 22a-134a(j)."

"I further certify that I submitted this Form III to the transferee prior to the transfer of establishment."

"This Form III is complete and accurate as prescribed by the Commissioner without alteration of the text."

This must be signed by an individual(s), if in such capacity; a responsible corporate officer; partner in a partnership; member of a LLC, as applicable.

Authorized Signature(s) for Certifying Party

Name of Signatory for Certifying Party (print or type) [] Title (if applicable) []

Representing: []
(Company name, LLC, as applicable)

Legal Mailing Address: []

City/Town: [] State: [] Zip Code: []-[]-[]

Phone: []-[]-[] ext. [] e-mail*: []

STATE OF [] }
COUNTY OF [] } SS. []
(Town)

The foregoing was subscribed to and sworn to before me this [] day of [], 20[]
by []

(Name of Signatory, Title and Company, if applicable)

who personally appeared, and that person, as such, satisfactorily proven to be authorized to do so, as certifying party, executed the foregoing instrument for the purposes therein contained.

Signature of Notary/Commissioner of Superior Court []

Name of Notary/Commissioner of Superior Court
(print or type)

My commission expires []/[]/[] .



Property Transfer Fee Payment Form

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Corporate checks, bank checks or money orders made payable to the Department of Energy and Environmental Protection will be accepted. Send to:

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

DEEP CPPU USE ONLY

- Transferor:** [Redacted]
Mailing Address: [Redacted]
City/Town: [Redacted] State: [Redacted] Zip Code: [Redacted]
- Transferee:** [Redacted]
Mailing Address: [Redacted]
City/Town: [Redacted] State: [Redacted] Zip Code: [Redacted]
- Establishment:** [Redacted]
Mailing Address: [Redacted]
City/Town: [Redacted] State: [Redacted] Zip Code: [Redacted]
- Date of Transfer:** [Redacted]
- Certifying Party** (as referenced in Forms III & IV): [Redacted]
- Payor:** [Redacted]
Mailing Address: [Redacted]
City/Town: [Redacted] State: [Redacted] Zip Code: [Redacted]
Phone: [Redacted]
- Filing Fee** (Please check the appropriate fee paid).
 - Form I \$375.00
 - Form II \$1,300.00 (Higher fees may be applicable; refer to CGS Section 22a-134e for fee.)
 - Form III Initial Fee \$3,000.00
 - Form IV Initial Fee \$3,000.00

Section C: Certification (This is the certifying party as defined in CGS Section 22a-134(6))

"As the Certifying Party, I hereby certify that an investigation of the parcel has been performed in accordance with prevailing standards and guidelines, and any pollution caused by any discharge, spillage, uncontrolled loss, seepage, or filtration of hazardous waste or hazardous substance at the establishment has been remediated in accordance with procedures approved by the Commissioner of Energy and Environmental Protection or verified by a Licensed Environmental Professional to have been performed in accordance with the Remediation Standard Regulations. I further certify that all actions to remediate any pollution caused by any release at the establishment have been taken in accordance with the remediation standards except natural attenuation groundwater monitoring, groundwater compliance monitoring, and/or the recording of an Environmental Use Restriction."

"I hereby agree, in accordance with the representations made therein, to conduct natural attenuation groundwater monitoring and/or groundwater compliance monitoring in accordance with the Remediation Standard Regulations."

"I hereby certify, if further investigation and remediation are necessary, to take further action to investigate the establishment in accordance with prevailing standards and guidelines, and to remediate the establishment in accordance with the Remediation Standard Regulations."

"I have personally examined and am familiar with the information submitted in this document, and all attachments thereto, including inquiry of those individuals immediately responsible for obtaining such information, and certify that the submitted information is true, accurate and complete, to the best of my knowledge and belief. I am aware that if I knowingly submit false information or fail to comply with the provisions of CGS Sections 22a-134 to 22a-134e, I may be subject to damages and penalties pursuant to CGS Sections 22a-134(b and d) and an enforcement action pursuant to CGS Section 22a-134a(j)."

"This Form IV is complete and accurate as prescribed by the Commissioner without alteration of the text."

This must be signed by an individual(s), if in such capacity; a responsible corporate officer; partner in a partnership; member of an LLC, as applicable.

Authorized Signature(s) for Certifying Party

Name of Person Signing (print or type)

Title (if applicable)

Certifying Party: [Redacted]
(Company name, LLC, as applicable)

Legal Mailing Address: [Redacted]

City/Town: [Redacted]

State: [Redacted]

Zip Code: [Redacted]-[Redacted]

Phone: [Redacted]-[Redacted] ext. [Redacted]

e-mail*: [Redacted]

STATE OF [Redacted]

} SS. [Redacted]

COUNTY OF [Redacted]

} (Town)

The foregoing was subscribed to and sworn to before me this [Redacted] day of [Redacted], 20[Redacted]

by [Redacted]
(Name of Signatory, Title and Company, if applicable)

who personally appeared, and that person, as such, satisfactorily proven to be authorized to do so, as certifying party, executed the foregoing instrument for the purposes therein contained.

Signature of Notary/Commissioner of Superior Court

Name of Notary/Commissioner of Superior Court (print or type)

My commission expires [Redacted]/[Redacted]/[Redacted].



Property Transfer Fee Payment Form

Fees are payable pursuant to Section 22a-134e of the Connecticut General Statutes (CGS) for the Transfer of Establishment CGS Section 22a-134a, Forms I-IV.

Corporate checks, bank checks or money orders made payable to the Department of Energy and Environmental Protection will be accepted. Send to:

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

DEEP CPPU USE ONLY

1. **Transferor:**
Mailing Address:
City/Town: State: Zip Code:

2. **Transferee:**
Mailing Address:
City/Town: State: Zip Code:

3. **Establishment:**
Mailing Address:
City/Town: State: Zip Code:

4. **Date of Transfer:**

5. **Certifying Party** (as referenced in Forms III & IV):

6. **Payor:**
Mailing Address:
City/Town: State: Zip Code:
Phone:

7. **Filing Fee** (Please check the appropriate fee paid).
 Form I \$375.00
 Form II \$1,300.00 (Higher fees may be applicable; refer to CGS Section 22a-134e for fee.)
 Form III Initial Fee \$3,000.00
 Form IV Initial Fee \$3,000.00



STATE OF CONNECTICUT
 DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
 BUREAU OF WATER PROTECTION AND LAND REUSE
 REMEDIATION DIVISION
 79 ELM STREET, HARTFORD, CT 06106-5127
 (860) 424-3705 www.ct.gov/deep/remediation

ENVIRONMENTAL CONDITION ASSESSMENT FORM (ECAF)

This form must be certified by the responsible party, owner, or certifying party, as applicable. This certification attests that the information contained in the ECAF is correct and accurate to the best of such party's knowledge. For detailed directions on completing each part of the ECAF, refer to the instructions. The ECAF is to be a stand-alone document; do not reference attachments, with the exceptions of maps and receptor surveys.

Check the box to indicate the program for which this form is being submitted:

Connecticut General Statutes (CGS) section 22a-134a(a)-(e), Property Transfer filing

CGS section 22a-133x, Voluntary Remediation

Other (specify) _____

ECAF submitted for Entire Property or Release Area

DEEP USE ONLY
 Date and File Room Stamp

RemID#:

Part I: Site Identification

1. Name of Site: _____
 Street Address: _____
 City/Town: _____ State: _____ Zip Code: _____

2. Description in Property Deed:
 Recorded on page _____ in volume _____ of the Town of _____ land records, as lot _____,
 block _____, on map _____ in the Tax Assessor's Office.

3. Site Details: Total Acreage: _____ Latitude & Longitude (Decimal Degrees):

 Acres Undeveloped: _____ Building Footprint Square Footage: _____

4. Provide a location map that is based on a USGS quadrangle and shows the location of the site.

5. Include a site plan(s) with current and historical structures and boundaries, hazardous waste and solid waste management areas, areas of operation, areas of concern, release areas, UST and AST locations, septic systems, water supply wells, monitoring wells, groundwater flow direction, limits of groundwater plume, sampling locations, and extent of remediation, if known.

Questions or Comments?

Please type your Questions into CHAT

If we need further clarification, we may take you
off mute to speak

www.ct.gov/deep/remediationroundtable



Remediation Division Scanning Project



Roundtable Tip: Finding Remediation Documents on The Public Portal



UPDATE

- Currently scanning the town of Waterbury, all previous towns are no longer available in the records center
- We have packed up 3290 boxes to date which equates to over 44,000 files
- Documents continue to be added to the Public Portal everyday!
- While migration is happening if you don't see the site you are looking for you can contact ME to see where it is in the process

Look to our [webpage](#) for updates on where we are in the process!





Connecticut

Department of Energy and Environmental Protection



DEEP is continuing to carry out its mission and provide services while keeping both the public and our workforce safe during the COVID-19 pandemic. Click here for the latest updates on DEEP's response to COVID-19. [DEEP COVID-19 Response](#)

[CT.gov Home](#) / [Department of Energy and Environmental Protection](#) / [About Us](#) / [Online Services](#)

- How Do I... >
- Energy >
- Environmental Quality >
- Natural Resources >
- Outdoor Recreation >
- Public Utilities Regulatory Authority (PURA) >

Search Department of Energy and Environmental Protection

DEEP Online Services

DEEP is continuing to expand its online business offerings!

Note: Many of our programs are now requesting electronic submittal of documents. Please verify directly with specific programs through [email](#) or through our program specific webpages concerning electronic submittal requirements.

Documents & Data

- Use the *new* [DEEP Document Online Search Portal](#) to view currently available agency documents
- [Video - Online Search Portal Demonstration](#) (Recorded October 2019 - Remediation Roundtable Meeting)
- Search or browse public data provided by Connecticut State Agencies using the [CT Open Data Portal](#)
- Many datasets concerning the [environment and natural resources category](#) can be found within the [CT Open Data Portal](#). These datasets can be searched, sorted, and tabulated.



The DEEP Document Online Search Portal includes a collection of documents electronically produced or digitally scanned by the Agency. The portal is searchable by a variety of fields.

Note: At the current time, there are a limited number of documents available through the Search Portal. Please review [More Information and FAQs](#) for a list of the currently available Agency program documents, field definitions, and updates.

For the best experience use Chrome or Firefox.

Search Criteria

Agency Program ⓘ	Please Select Agency Program ▾	Entity Name ⓘ	Entity Name
Town ⓘ	Please Select Town ▾	Street Address	Street Address
Agency ID ⓘ	Agency ID	Document Type ⓘ	Please Select Document Type ▾
File Type	Please Select File Type ▾	Subject(s) ⓘ	Subject(s)
From Date	mm/dd/yyyy	To Date	mm/dd/yyyy

Reset Submit

Refine Search Criteria

Agency Program ⓘ

Please Select Agency Program ▾

Town ⓘ

East Hartford ▾

Agency ID ⓘ

Agency ID

File Type

Please Select File Type ▾

From Date

mm/dd/yyyy

Entity Name ⓘ

Entity Name

Street Address

main

Document Type ⓘ

Please Select Document Type ▾

Subject(s) ⓘ

Subject(s)

To Date

mm/dd/yyyy

Reset

Submit

Display Per Page:

10

Result Columns

Export

Your search criteria results in more than 500 documents. The results listed below are not the complete list of matching documents. (This system can only display a maximum of 500 documents). You must refine your search criteria to see valid results.

Town	Entity Name	DEEP Program	Document Name	Subject(s)	Street Address	Agency ID	File Type	Date	
East Hartford	PRATT & WHITNEY MS 122 12	Hazardous Waste	Hazardous Waste Manifest		400 MAIN STREET	Ref ID: CTF0093422 Alt ID: CTD990672081	Written Text	Document Date: 9/21/1990	View
East Hartford	Tibbetts, Peter	Emergency Response Unit	Emergency Incident Field Report	Pacm	Building 1300 1 400 Main Street	Case ID: 200405809	Written Text	Document Date: 8/24/2004 Event Date:	View

Refine Search Criteria

Agency Program ⓘ

Please Select Agency Program ▾

Town ⓘ

Ashford ▾

Agency ID ⓘ

Agency ID

File Type

Please Select File Type ▾

From Date

mm/dd/yyyy

Entity Name ⓘ

Entity Name

Street Address

33

Document Type ⓘ

Please Select Document Type ▾

Subject(s) ⓘ

Subject(s)

To Date

mm/dd/yyyy

Reset

Submit

Refine Search Criteria

Display Per Page:

10

Result Columns

Export

Town	Entity Name	DEEP Program	Document Name	Subject(s)	Street Address	Agency ID	File Type	Date	
Ashford	Cumberland Farms #651	Emergency Response Unit	Emergency Incident Report		Route 44 and 33 Pompey Hollow Road	Case ID: 3-37	Written Text	Event Date: 3/30/2012	View
Ashford		Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompei Hollow Rd	Case ID: 201402511	Written Text	Document Date: 5/27/2014 Event Date: 5/27/2014	View
Ashford		Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompei Hollow Rd	Case ID: 201700802	Written Text	Document Date: 2/18/2017 Event Date: 2/18/2017	View
Ashford		Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompey Rd	Case ID: 201401644	Written Text	Document Date: 4/15/2014 Event Date: 4/15/2014	View

Ashford	Cumberland Farms	Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompey Hollow Road	Case ID: 200806258	Written Text	Document Date: 10/2/2008 Event Date: 10/2/2008	View
Ashford	Same	Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompey Hollow Rd	Case ID: 9807473	Written Text	Document Date: 10/31/1998 Event Date: 10/31/1998	View
Ashford		Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompey Hollow Rd	Case ID: 200608011	Written Text	Document Date: 12/20/2006 Event Date: 12/20/2006	View
Ashford	Cumberland Farms	Emergency Response Unit	Emergency Incident Report	Gasoline	33 Pompey Hollow Road	Case ID: 201501596	Written Text	Date Received: 4/11/2015 Event Date: 4/11/2015	View

Showing 1 to 10 of 96 entries

« Previous 1 2 3 4 5 Next »

Refine Search Criteria

Display Per Page:

200

Result Columns

Export

Town	Entity Name	DEEP Program	Document Name	Subject(s)	Street Address	Agency ID	File Type	Date	
Ashford		Other Remediation Program,Potable Water,Significant Environmental Hazard	Monitoring Reports	DREM000005	33 Pompey Hollow Road (Route 44)	Ref ID: 5849,6602,13203	Written Text		View
Ashford		Other Remediation Program,Potable Water,Significant Environmental Hazard	Monitoring Reports	DREM000005	33 Pompey Hollow Road (Route 44)	Ref ID: 5849,6602,13203	Written Text		View
Ashford		Other Remediation Program,Potable Water,Significant Environmental Hazard	Monitoring Reports	DREM000005	33 Pompey Hollow Road (Route 44)	Ref ID: 5849,6602,13203	Written Text		View
Ashford	Cumberland Farms, Inc.	LUST,UST,Emergency Response Unit	Tank Closure Assessment Report/UST Closure Report	UST Removal, Soil Data, Groundwater Data	33 Pompey Hollow Road	Case ID: 200805249 Alt ID: 3-37	Written Text	Date Received: 6/30/2017 Document Date:	View



Rather than scanning each folder as one pdf file the red folders are broken down into 12 categories

Site Investigations

Permits/Emergency Authorizations

RAPs/RARs

Verification/ Audit/ Enforcement

Engineered Control/ELURs/ Variance Requests

Correspondence

Property Transfer Filings

Monitoring Reports

Significant Environmental Hazard

Miscellaneous

Air Pre-inspection Questionnaire

UST Clean Up App

-Files are indexed with Address, Town, REM ID(s), and associated program(s)

*** Will not be able to capture individual dates of document, and Company name**



Refine Search Criteria

Display Per Page:

200

Result Columns

Export



Town	Entity Name	DEEP Program	Document Name	Subject(s)	Street Address	Agency ID	File Type	Date	
Ashford		Other Remediation Program,Potable Water,Significant Environmental Hazard	Monitoring Reports	DREM000005	33 Pompey Hollow Road (Route 44)	Ref ID: 5849,6602,13203	Written Text		View
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Ashford		Other Remediation Program,Potable Water,Significant Environmental Hazard	Monitoring Reports	DREM000005	33 Pompey Hollow Road (Route 44)	Ref ID: 5849,6602,13203	Written Text		View

Showing 1 to 3 of 3 entries

« Previous

1

Next »

DEEP Programs List

Agency Program ⓘ

Town ⓘ

Agency ID ⓘ

File Type

From Date

Please Select Agency Program ▾

Search

- Please Select Agency Program
- Agency Wide
- Air Field Enforcement
- Air Source Emissions Monitoring
- Air Technical Services
- Aquatics
- BETP
- Boating
- Brownfield Program
- Certificate of Permission

Programs Specific to Remediation

- Coastal Area Management Act
- Diversion Registration
- Emergency Response Unit
- ENV. Adjudication
- Federal Superfund
- Fisheries and Game
- Flood Management
- Hazardous Waste
- Inland Wetlands
- Landfill Monitoring
- LUST
- Mobile Source Group
- Municipal Water Pollution Control

- NDDB
- Other Remediation Program
- PCB
- Potable Water
- Property Transfer
- PURA
- Radiation DTX
- Radiation RMI
- RCRA Corrective Action
- Section 401 Water Quality Certificate (Tidal)
- SERC
- Significant Environmental Hazard
- State Remediation Program
- Stormwater

- Structures, Dredging And Fill
- Structures, Dredging And Fill (401)
- Tidal Wetlands, Structures, Dredging And Fill
- Tidal Wetlands, Structures, Dredging and Fill (401)
- UST
- Voluntary Remediation
- Waste Transporter
- Water Diversion

This does not mean everything in remediation, this is specific to DEEP Lead remediation projects

Questions or Comments?

Please type your Questions into CHAT

If we need further clarification, we may take you
off mute to speak

www.ct.gov/deep/remediationroundtable



Update: Working Group on Release-Based Cleanup Regulations

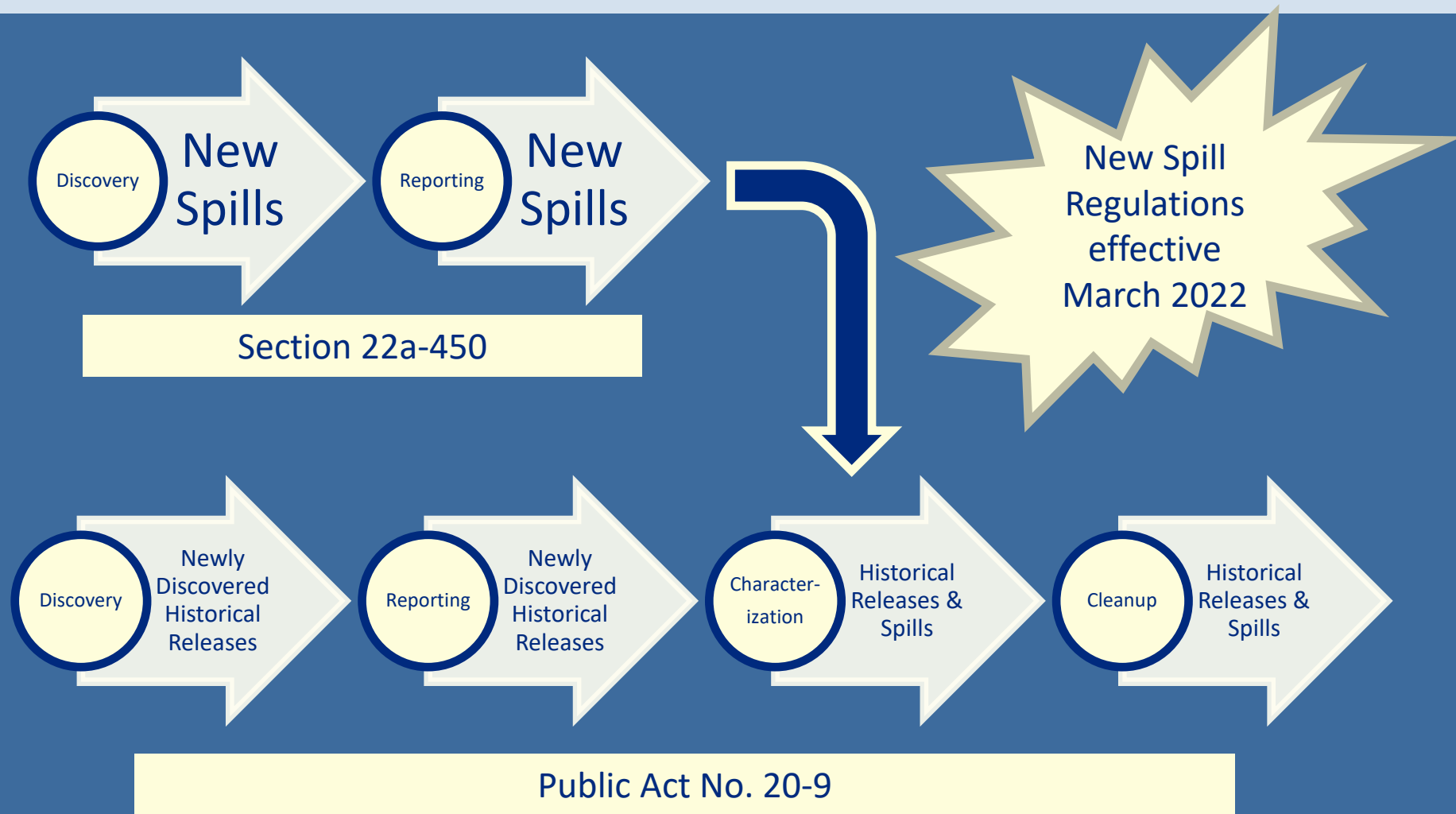
March 21, 2023

Ray Frigon, Assistant Director
Remediation Division

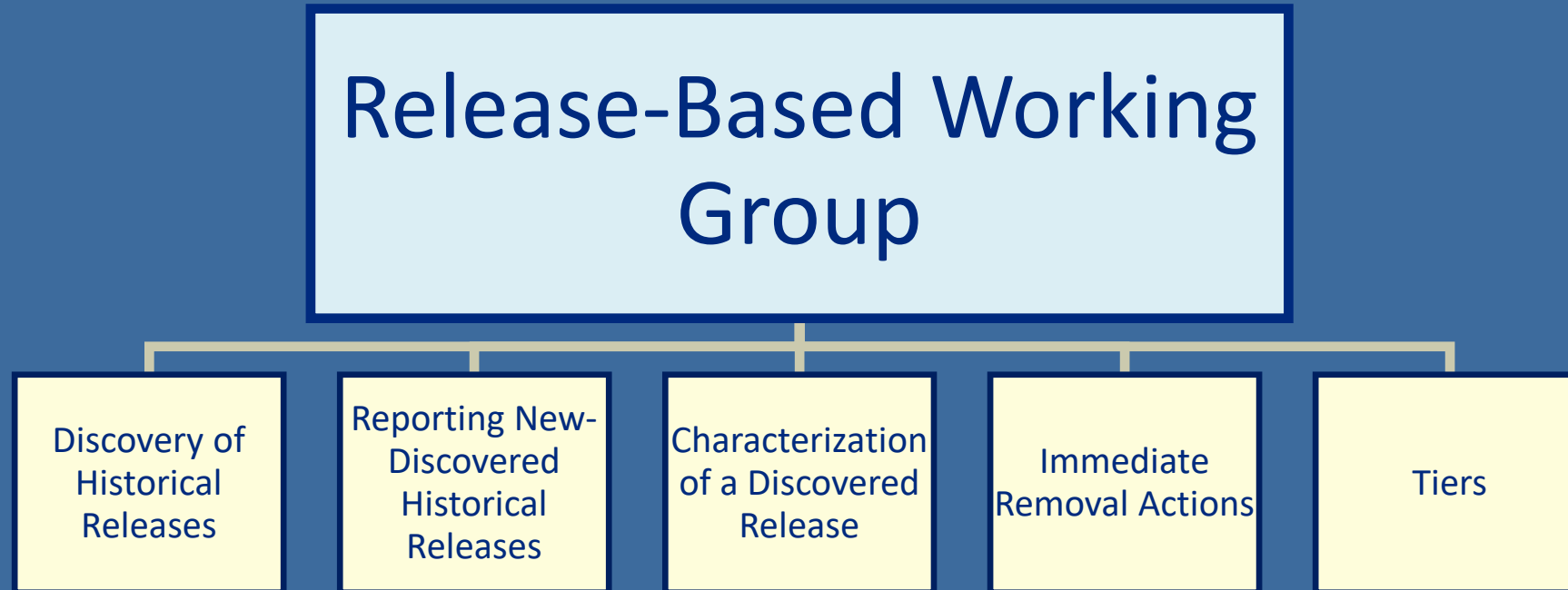


Connecticut Department of Energy and Environmental Protection

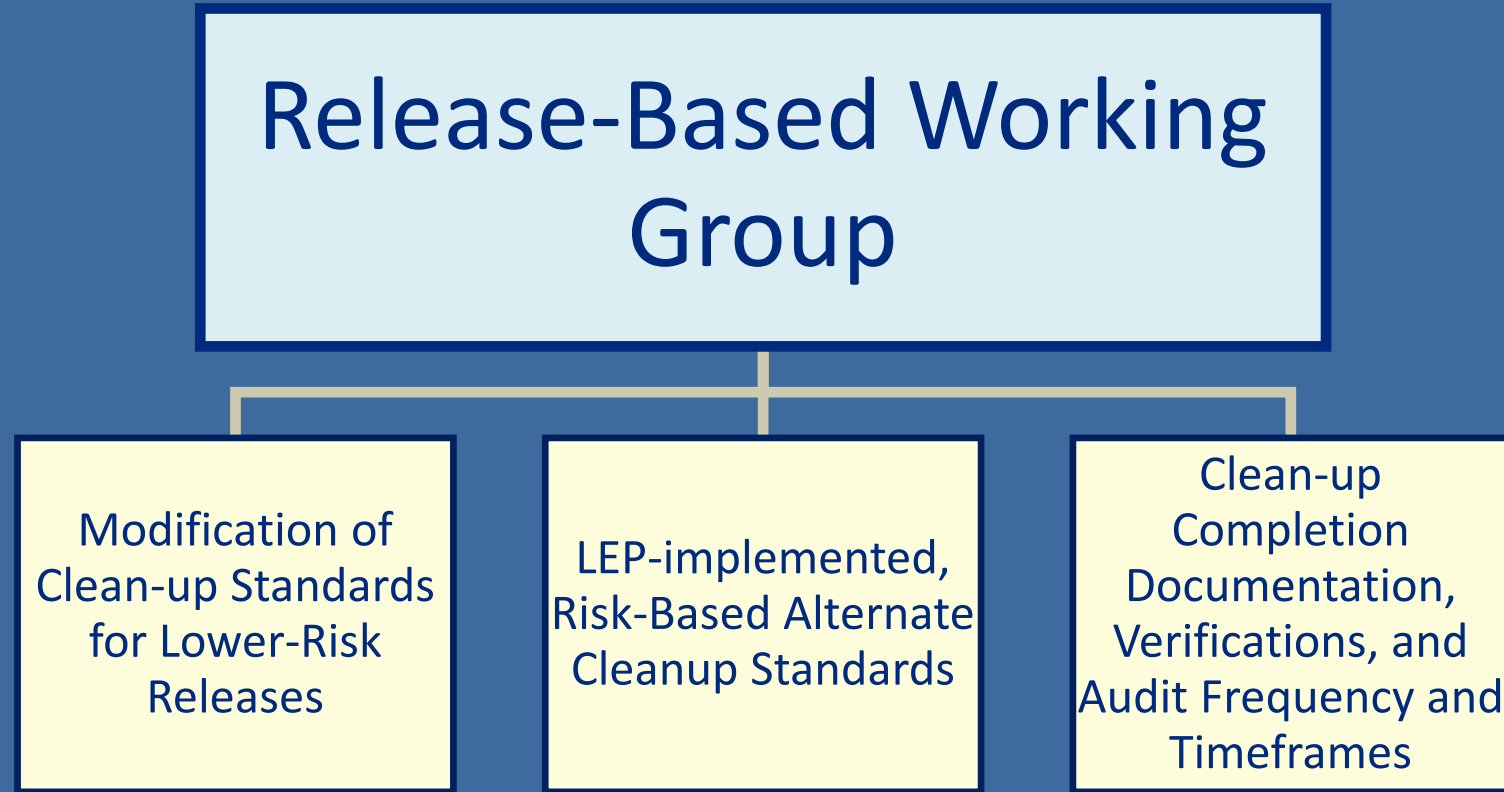
Section 22a-450 vs Public Act 20-9



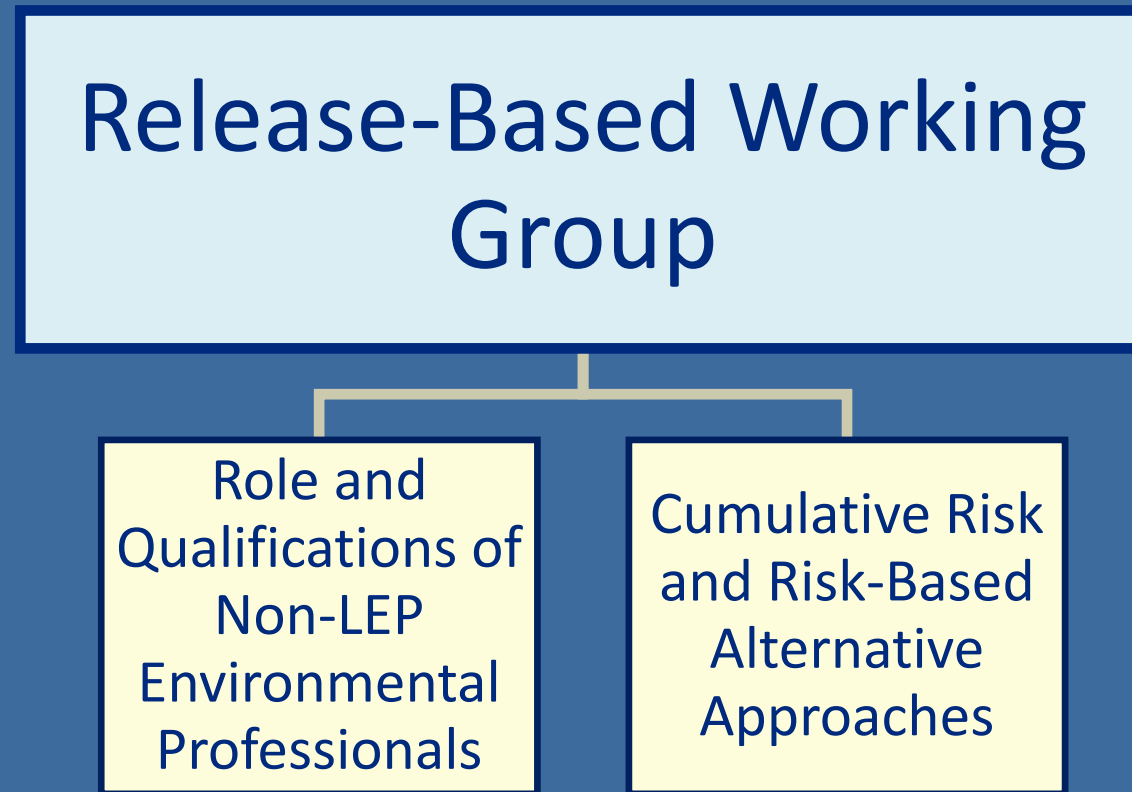
First Phase Subcommittees



Second Phase Subcommittees



Third Phase Subcommittees



Subcommittee Charges

- Cumulative Risk and Risk-Based Alternative Approaches
 - Determine which components of cumulative risk assessment can be implemented without increasing the human health risk on sites that have been remediated
- Role and Qualifications of Non-LEP Environmental Professionals
 - Identify qualifications, qualification process, and scope of authority for such professionals



Working Group Process

Substantive Conversations

- DEEP presenting on various topics, issues, regulatory challenges, and new approaches. Discussing preliminary regulatory language
- Time for discussion and Working Group members can provide written comments
- Presentations, emails to Working Group and responses always posted!



Framework for Historical Releases

	SEH*	RBP
Notifier	Property owner notifies DEEP TEP required to notify owner	Property owner notifies DEEP Person who discovers required to notify owner**
Program requirements	Break exposure pathway (mitigate)	Clean up completed
Reporting times	Generally, 30 days in writing <i>Some specific cases: verbal (immediately; 1 day) followed by written notification within 5 days; 90 days;</i>	2 hours, verbal, for Imminent Hazards 72 hours, verbal, for Acute Hazards

*high-level summary – for more details visit <https://portal.ct.gov/DEEP/>

**future regs will specify a process for ensuring notifications





Questions?



Connecticut Department of Energy and Environmental Protection



QA Workgroup Updates RCPs Revamp

March 21, 2023
Roni Tanguay, Remediation

Updates to Reasonable Confidence Protocols

Thanks to the team

Which RCPs were updated?

What was updated?

Public comments welcome

Next steps for the workgroup

Thanks to the Team!

- 🙌 Allison Forrest-Laiuppa, DEEP Corrective Action
- 🙌 Daren Damboragian, Pace Laboratories
- 🙌 Rebecca Merz, Phoenix Laboratories
- 🙌 Michael Ainsworth, HRP
- 🙌 Bill Flick, WSP



Which RCPs were updated?

Metals

- 6010 – Metals by ICP-OES
- 6020 – Metals by ICP/MS
- 7000/7010 – Metals by GFAA/FLAA
- 7196 – Hexavalent Chromium by spectrophotometry
- 7470/7471 – Mercury by CVAA

Other

- 9010/9012/9014 – Cyanide by distillation and colorimetry

Organics

- 8081 – Pesticides by GC
- 8082 – PCBs by GC
- 8151 – Herbicides by GC
- 8260 – VOCs by GC/MS
- 8270 – SVOCs by GC/MS
- CT ETPH – Extractable Petroleum Hydrocarbons by GC/FID
- EPH – Extractable Petroleum Hydrocarbons by GC/FID
- APH – Air Petroleum Hydrocarbons by GC/MS
- VPH – Volatile Petroleum Hydrocarbons by GC/PID/FID
- TO-13 – PAHs in air
- TO-17 – VOCs in air



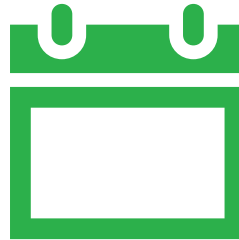
What was updated?

- Language updates to reflect latest EPA method updates
- Language updates reflective of MA CAM to promote QA/QC consistency between states
- Consolidated complex, analytical/technical details into user-friendly information
- Significant formatting overhaul to improve document functionality
- Clarification of PCB dual column results
- Elimination of prescribed EPH, VPH, APH report forms

Public Comments Welcome!



Drafts and red-line
versions will be
posted to the DEEP
[QA Webpage](#)



60 days to submit
public comments
starting when posted
to DEEP page



Comments should be emailed to:

Roni Tanguay @
veronica.Tanguay@ct.gov

&

Allison Forrest-Laiuppa @
Allison.Forrest-Laiuppa@ct.gov

Next steps for the QA Workgroup



Updating the Reasonable
Confidence Guidance
Document



Updating the Data
Quality Assurance/Data
Useability
Evaluation(DQA/DUE)
Guidance Document



DQA/DUE training
opportunities



We're looking for
volunteers to work on
the team!



If interested email
Roni or Allison

Questions or Comments?

Please type your Questions into CHAT

If we need further clarification, we may take you
off mute to speak

www.ct.gov/deep/remediationroundtable





CT DEEP PFAS UPDATE REMEDIATION ROUNDTABLE

Presented by: **Shannon Pociu, Supervising Environmental Analyst**
Remediation Division
March 21, 2023

TODAY'S PFAS MENU

MAIN COURSE:

- EPA's Proposed MCLs for PFAS – Meg Harvey, DPH

SIDES:

- APS Criteria Updates – Status
- Proposed Legislation
- December 8, 2022 PFAS Task Force 3-Year Update Meeting
- Updated DEEP PFAS Webpage Content and Municipal Guidance
- AFFF Take-Back Program - Status
- Private Well Sampling
- Wastewater & Landfill Updates
- Hockanum River Update



EPA Proposed Rulemaking: Six PFAS

- March 14: EPA issued ***proposed*** enforceable drinking water standards (MCLs) for 6 PFAS
 - PFOA, PFOS, [PFHxS, PFNA, PFBS, GenX]
- Proposal also requires public water systems to monitor for these PFAS, notify the public if these PFAS are found at levels exceeding proposed MCLs, and take action to reduce these PFAS to levels below proposed MCLs.
- **No required actions until proposed rule is finalized**
- Public comment period for 60 days
- EPA anticipates final rule by the end of 2023

EPA Proposed MCLs

PFAS	EPA Draft MCL (parts per trillion, ppt, ng/L)	CT Action Level (parts per trillion, ppt, ng/L)
Perfluorooctanoic acid (PFOA)	4	16
Perfluorooctane sulfonic acid (PFOS)	4	10
Perfluorononanoic acid (PFNA)	1.0 (unitless) Hazard Index*	12
Perfluorohexane sulfonic acid (PFHxS)	1.0 (unitless) Hazard Index*	49
Perfluorobutanesulfonic acid (PFBS)	1.0 (unitless) Hazard Index*	-
Hexafluoropropylene oxide dimer acid (HFPO-DA / GenX)	1.0 (unitless) Hazard Index*	-

*Hazard Index is the ratio between the chemical concentration and its “safe” concentration.

Hazard Index

$HI = \sum \frac{\text{concentration of each PFAS measured in drinking water}}{\text{EPA's Health-based water concentration (HBWC) for each PFAS}}$

$$HI = \left[\frac{\text{GenX}}{10 \text{ ppt}} \right] + \left[\frac{\text{PFBS}}{2000 \text{ ppt}} \right] + \left[\frac{\text{PFNA}}{10 \text{ ppt}} \right] + \left[\frac{\text{PFHxS}}{9.0 \text{ ppt}} \right]$$

Example:

$$\left[\frac{5 \text{ ppt}}{10 \text{ ppt}} \right] + \left[\frac{200 \text{ ppt}}{2000 \text{ ppt}} \right] + \left[\frac{5 \text{ ppt}}{10 \text{ ppt}} \right] + \left[\frac{4 \text{ ppt}}{9.0 \text{ ppt}} \right] = 1.5$$

For more information

<https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>

RSR ADDITIONAL POLLUTING SUBSTANCE CRITERIA

Applies to Σ PFOA, PFOS, PFNA, PFHxS & PFHpA

Remediation Standard	Criterion
Residential Direct Exposure Criterion	1.35 mg/kg
Industrial/Commercial Direct Exposure Criterion	41 mg/kg
GA Pollutant Mobility Criterion	1.4 μ g/kg
GB Pollutant Mobility Criterion	14 μ g/kg
Groundwater Protection Criterion (adopts DPH's 2016 Drinking Water Action Level for Σ PFOA, PFOS, PFNA, PFHxS, PFHpA)	70 ng/L
Surface Water Protection Criterion	In Development

- ❖ Existing summed PFAS APS criteria will be updated to individual criteria for PFOA, PFOS, PFNA, and PFHxS using the 2022 DPH DWALs and Reference Doses.
- ❖ Toxicity information for additional PFAS requested from DPH for use in deriving APS criteria for future inclusion on the Fast Track form.

[Requesting APS and Alternative Criteria \(ct.gov\)](https://www.ct.gov/energy-environment/department/energy-environmental-protection/office-of-remediation-and-chemical-control)

2023 LEGISLATIVE SESSION

Proposed bills moving forward:

- [SB 100](#): AN ACT ESTABLISHING AN ACCOUNT IN THE GENERAL FUND TO PROVIDE GRANTS TO TOWNS THAT NEED PFAS TESTING AND REMEDIATION
- [HB 5250](#): AN ACT ESTABLISHING A GRANT PROGRAM TO REIMBURSE MUNICIPALITIES FOR COSTS RELATED TO REMOVAL OF PFAS FROM FIRE APPARATUS.

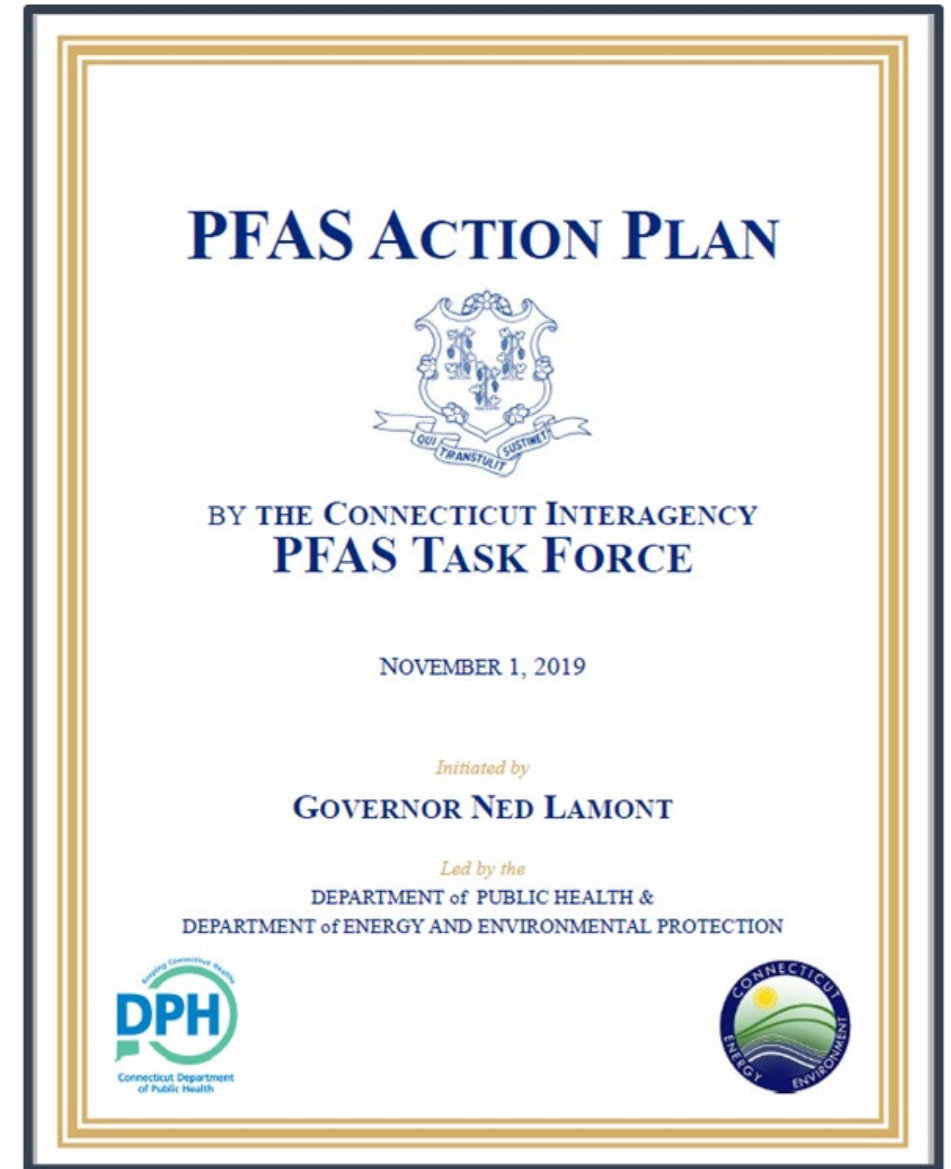


INTERAGENCY PFAS TASK FORCE ACTION PLAN UPDATE MEETING DECEMBER 8, 2022

Progress being made and more to do

[CT-N Connecticut Network: Connecticut Interagency PFAS Task Force December 8th Meeting](#)

[Presentation from December 8, 2022 PFAS Task Force Update Meeting](#)




DEEP PFAS WEBSITE & MUNICIPAL GUIDANCE UPDATES

WEBSITE UPDATES:

- PFAS Landing Page
- PFAS and Firefighting Foam
- Interagency PFAS Task Force


NEW WEB CONTENT:

- PFAS Information for Environmental Professionals
- PFAS Information for Municipalities
- PFAS and Private Wells



PFAS Information for Municipalities

Revised March 16, 2023



What are PFAS?

PFAS = Per- and Polyfluoroalkyl Substances

- A group of more than 12,000 manmade chemicals that contain carbon and fluorine
- Developed in the 1940s, in common use since the 1950s
- Ubiquitous in consumer products and industry
- PFOA and PFOS are the two most well-studied PFAS
- PFAS characteristics:
 - Repel water, oil, and grease and resist heat
 - Extremely persistent and resistant to breakdown
 - Bioaccumulative and toxic at very low levels
 - Migrate easily in the environment

CCCCCCCC(F)(F)C(=O)O

Perfluorooctanoic acid, or PFOA

CCCCCCCC(F)(F)S(=O)(=O)O

Perfluorooctane sulfonic acid, or PFOS

What are Sources of PFAS?

PFAS are used in many industry and manufacturing sectors and can be found in a variety of items, including consumer products. Some examples include:

Consumer Products (examples)	
Nonstick cookware	Industrial and household cleaning products
Waterproof, water-resistant, and stain-resistant textiles (e.g., clothing, shoes, upholstery, and carpets)	Grease-resistant and waterproof coatings on food packaging (e.g., popcorn bags, takeout containers, pizza boxes, and fast-food wrappers).
Floor, car, and boat waxes; ski wax	Coated paper products
	Cosmetics and personal care products
Manufacturing/Industrial Uses and Processes (examples)	
Metal plating and finishing	Engineered coatings used in semiconductor production
Etching of metals, plastics, and glass	Surface coating, paint, varnish, and inks
Plastics, resins, and rubber products	Cable and wire insulation for electronics
Aqueous Film-Foaming Foam (AFFF) used to extinguish Class B petroleum & flammable liquid fires	
Waste Management and Disposal Locations	
Landfills	Wastewater Treatment Plants and Septic Systems
Biosolids and biosolids-based agricultural amendments	

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AFFF BAN & TAKE-BACK PROGRAM

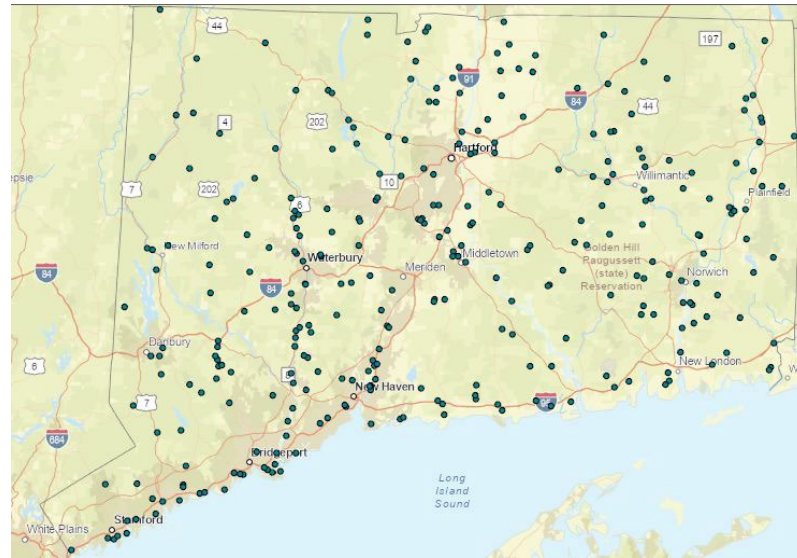
CGS Section 22a-903a (PA 21-191) – AFFF Use Ban

- ✓ Phase 1 – Container Collection & Disposal of AFFF concentrate from state/municipal fire departments
 - 35,300 gal.+ collected from >250 town fire departments
- ✓ Phase 2 – PFAS Decontamination Study / Regional Foam Trailer Cleaning – NOW PURCHASING NEW TRAILERS
- ❑ Phase 3 – Dispose of AFFF from ~400 municipal fire trucks – ON HOLD PENDING FUNDING
- ❖ Granted AFFF Use Extensions to 23 terminals & chemical plants that are actively transitioning



ONGOING – PRIVATE WELL TESTING

- Prioritizing areas at high risk of PFAS pollution in vulnerable communities



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WASTEWATER & LANDFILLS

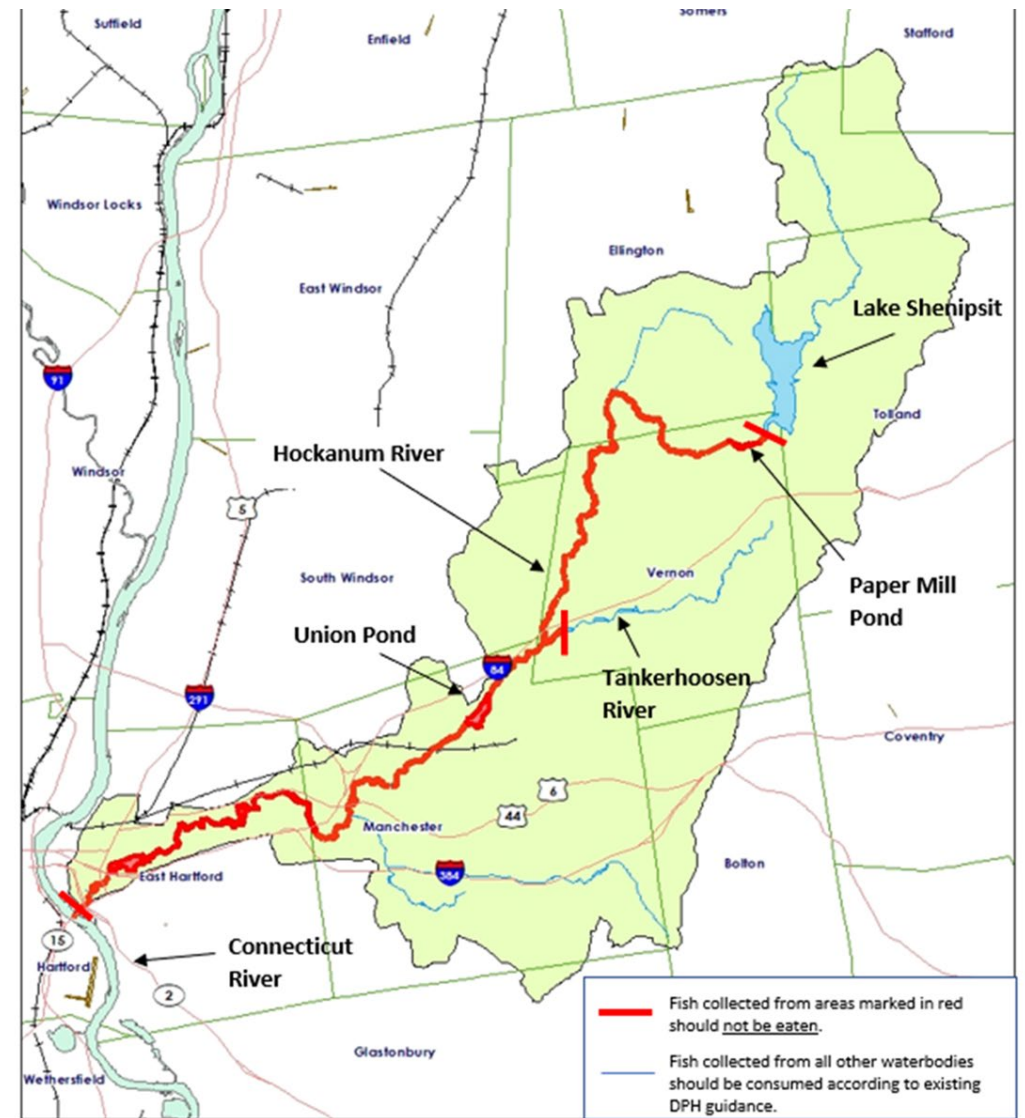
- **POTW Sampling Report expected soon**
- **Industrial Wastewater Discharge Permit Screening for New Permits and Renewals**
- **Landfill Leachate & Groundwater Monitoring Initiated**
 - Superfund sites and Stewardship Permits issued through the RCRA Corrective Action process



3/21/2023

SURFACE WATER & FISH TISSUE – HOCKANUM RIVER

- Elevated PFOS levels found in fish tissue near the Vernon POTW
- April 2022 – DPH issued “Do Not Eat” fish consumption advisory
- **ACTION:**
 - Sample surface water, fish tissue and sediment
 - Goals: Refine stream reaches of concern and identify PFAS source area(s)
- **STATUS:**
 - Surface water & fish tissue sampling completed. Data under review.

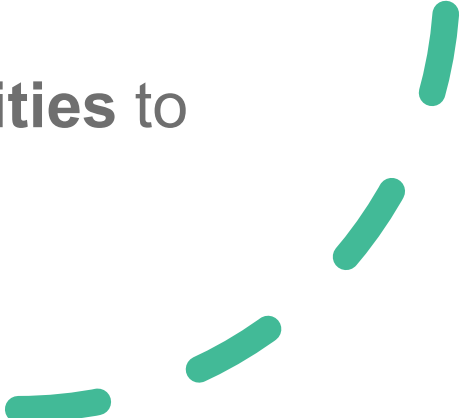


Fish Tissue Consumption Advisory Map:
Hockanum River Watershed

0 1 2 4 Miles



NEXT STEPS

- **Focused sampling** of private wells in high-risk areas
 - **Update** Remediation Standards and establish Water Quality Criteria
 - **Implement** the 1/1/24 Toxics in Packaging Law ban on intentionally-added PFAS in food packaging
 - **Expand** landfill monitoring
 - **Continue outreach and aid** to municipalities and the regulated community
 - **Seek/leverage funding opportunities** to support PFAS initiatives
- 

THANK YOU

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Remediation Roundtable



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An abstract background composed of various brushstrokes in shades of blue, green, and brown. The colors are layered and blended, creating a textured, painterly effect. The blue is most prominent at the top, transitioning into greens in the middle, and darker browns and oranges at the bottom.

Remediation Roundtable

Next meeting June 20, 2023