



# CONNECTICUT SERC: EPCRA SOLUTIONS FOR COMMON SERC CHALLENGES

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# DOES THIS SOUND FAMILIAR?

1. How can we better communicate with local officials/planners/responders about EPCRA facilities' chemical inventories?

- Common SERC issues:
  - Dynamic staffing at local levels
  - Demographics accelerating turnover
  - Limited SERC/EPCRA staff

2. How can SERCs meet rising expectations around access to information about releases [spills]?

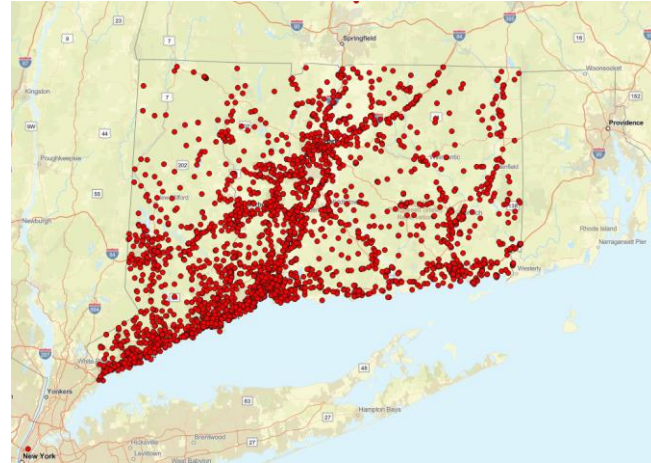
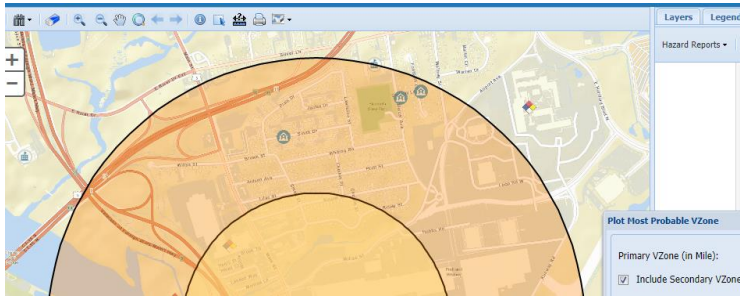
- Public officials want to stay ahead of the news
- People want to know immediately what is happening in their community

3. How do we prepare EPCRA facilities for increased frequency and intensity of flooding?

- Precipitation is more intense
- Flooding is more frequent



# EPCRA SOLUTIONS WORKING IN CONNECTICUT



1. Simplifying local  
access to online  
EPCRA Tier II Chemical  
Inventory reports

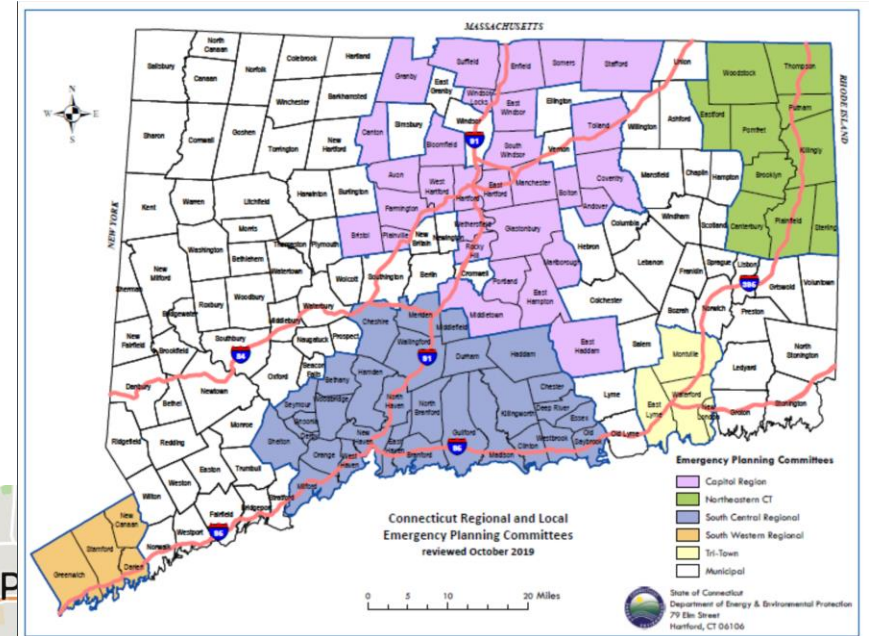
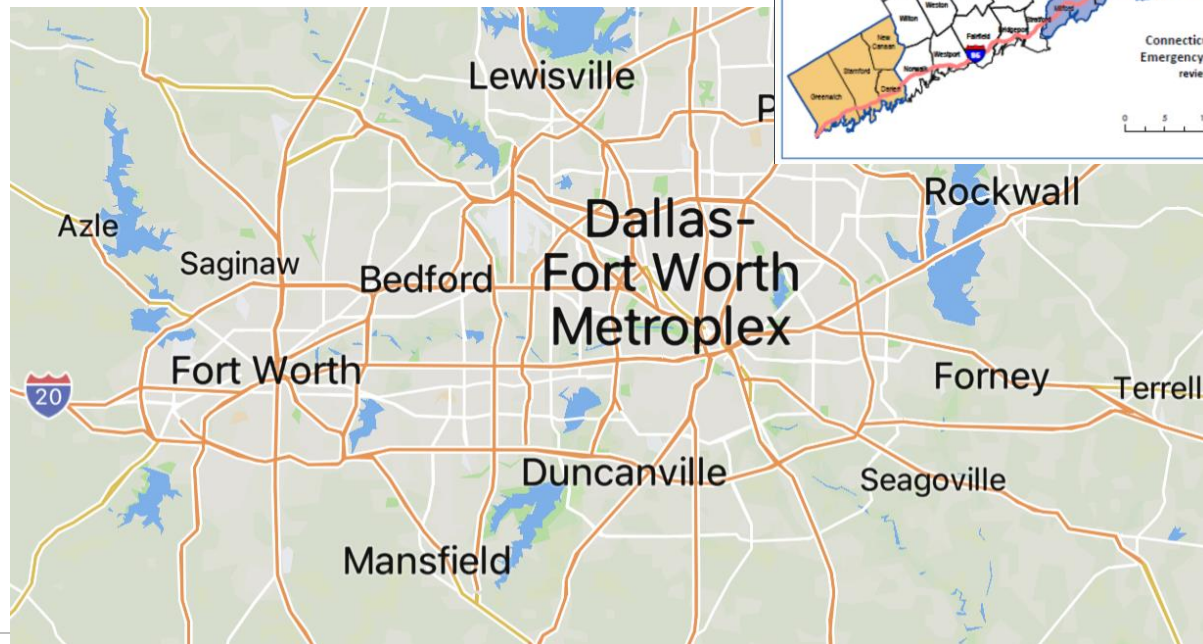
2. Spill Notification  
and Reporting System

3. Visualization of  
flood maps and  
EPCRA facilities;  
training, resources

# FIRST, SOME CONTEXT: QUICK RECAP OF CONNECTICUT'S SERC

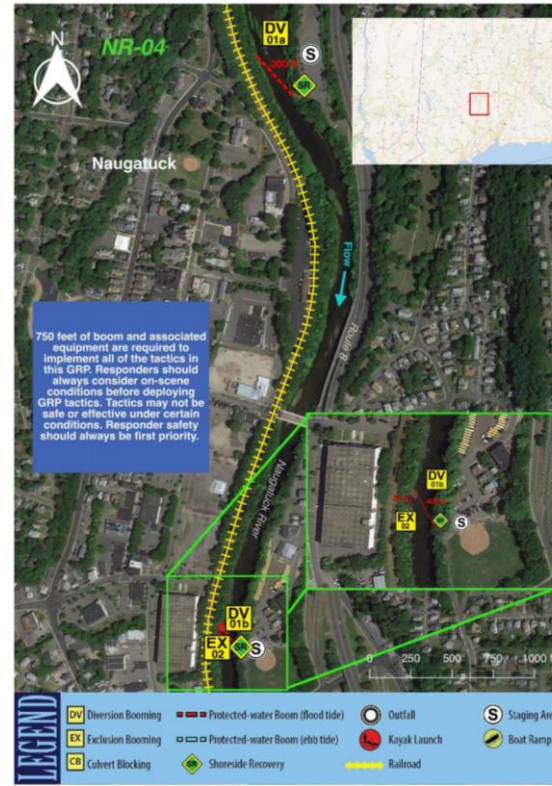
Connecticut:

- Small state (smaller than the Dallas-Fort Worth Metroplex geographic area, and half the population)
- **169** towns, with tradition of localized control
- No county government
- 107 towns have own LEPCs
- 62 towns in regional LEPCs
- Hundreds of fire departments



# WHAT HAS WORKED, WHAT WE WILL CONTINUE

- ✓ US DOT HMEP Grant—works well!
  - ✓ Clear nexus to SERC obligations
  - ✓ Simple to manage
- ✓ Annual Interagency Full-Scale Exercise
  - ✓ Moves between different regions across the state
  - ✓ Test Geographic Response Strategies
  - ✓ Connect with nearby states



Version: August 2019  
 Page 1 of 4  
 Nuka Research and Planning Group, LLC  
 Data Sources: Nuka Research & Planning Group, LLC, US EPA Region 1

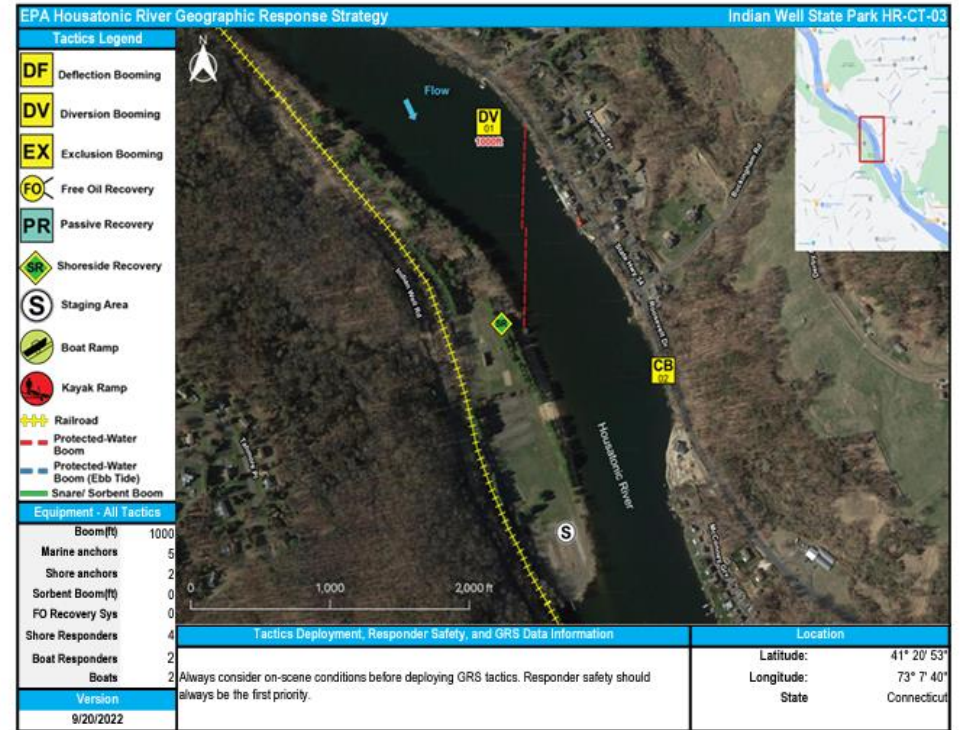
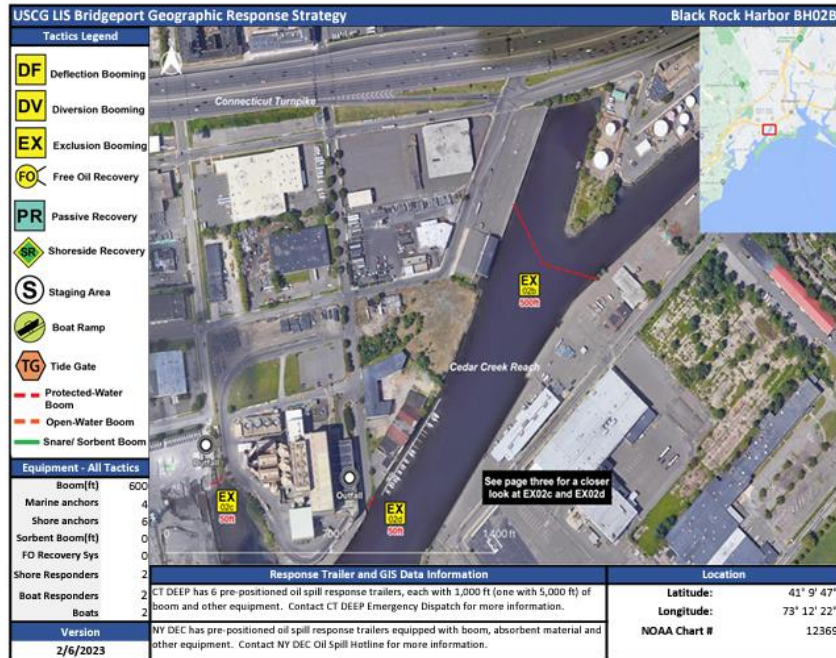
Naugatuck River Geographic Response Plan/Strategies Exercise, August 2021

Cross-state (RI) exercise, September 2021



Cross-state (MA) exercise, September 2022

# EXAMPLES OF GEOGRAPHIC RESPONSE STRATEGIES FROM US EPA AND US COAST GUARD



Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
EX-02b	Prohibit oil slicks from entering a sensitive area	500 ft protected water boom 2 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 1 boat operators	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shore side anchor first. Readjust boom angle as needed to reduce entrainment.
EX-02c	Prohibit oil slicks from entering a sensitive area	50 ft protected water boom 1 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 1 boat operators	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shore side anchor first. Readjust boom angle as needed to reduce entrainment.
EX-02d	Prohibit oil slicks from entering a sensitive area	50 ft protected water boom 1 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 1 boat operators	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shore side anchor first. Readjust boom angle as needed to reduce entrainment.

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
SR-01	Remove spilled oil that has been directed to a designated recovery site accessible from shore	1 skimming system 1 storage tank or bladder 1 hoses, pumps, fittings	2 shore responders	Set up shoreside recovery tactic at general location depicted on map.
DV-01	Redirect spilled oil from one location or direction of travel to a specific site for recovery	1000 ft protected water boom 5 marine anchor system 2 shoreline anchor system	4 shore responders 2 response boats 2 boat operators	Deploy boom as depicted to divert incoming oil to the collection site. Anchor every 200-300'. Adjust configuration as necessary to reduce entrainment. Set up shoreside recovery. Deploy shore side anchor first.
CB-02	Prevent oil that has entered drainage systems from impacting waterways and sensitive areas	1 inflatable plug, sand bag, or plywood	2 shore responders	If accessible deploy appropriate size inflatable culvert plug in the culvert. Monitor to ensure blocking integrity. Without culvert plug, place plywood or similar sheeting material across the culvert. Use plastic sheeting to ensure the seal. Stack sandbags against plywood to counter outflow pressure.

[Geographic Response Strategies-identification of recently completed strategies](#)

Strategies also in [development](#) for the Connecticut River

# INCREASE ACCESS FOR LOCAL PLANNERS/RESPONDERS

The screenshot displays the Hazconnect web application interface. At the top, the Connecticut Department of Energy & Environmental Protection logo is visible on the left, and the user is logged in as 'Diane' with the role of 'Planner'. The main interface is divided into several sections:

- Map:** A map on the left shows a facility location with a yellow oval highlighting a specific area. A larger map on the right shows a facility with two concentric VZones (Vulnerability Zones) overlaid: a smaller inner VZone and a larger outer VZone.
- Facility Details:** A central panel shows contact information for the facility, including Emergency Contact, Emergency Coordinator, and Compliance Contact. Below this are tabs for 'Chemicals', 'Facility/Report', 'Map Site', 'At-Risk Sites', 'At-Risk Population', 'Plan Details', and 'ALOHA® Footprint'. A dropdown menu for 'Worst Case VZone' is also present.
- Regulatory Reports:** A section titled 'Tier II Report (312 Annual Report)' contains a table with the following data:
 

Report ID	Report	Status	Signed By	Signed Date	Submission
8554	2022 Tier II Report Annual	Completed	[Redacted]	02/27/2023 02:01:26 PM	Online
247	2021 Tier II Report Annual	Completed	[Redacted]	02/25/2022	Hardcopy
- Incident Reports:** A table listing recent incident reports:
 

Report ID	Report Year	Incident Type	Report Class	Report Status	Submission Type	Signed Date	Signed By	Incident ID	Incident Description	Confirms Number
2445	2022	Chemical Incident	Initial	COMPLETED	O	07/11/2022	Michael Cox	202203116	asbestos pipe insulation, 12 in by 6 in piece of insulation	2022071120
2459	2022	Chemical Incident	Update	COMPLETED	O	07/13/2022	Richard Scalora	202203116	asbestos pipe insulation, 12 in by 6 in piece of	20220711202203116
- Plot Most Probable VZone:** A dialog box on the right allows users to configure VZone parameters:
  - Primary VZone (in Mile): 0.5
  - Include Secondary VZone
  - Secondary VZone (in Mile): 1

Note: CAMEO is important! This system is not to replace CAMEO, this is to supplement it to address the unique challenge for our State to know that local officials have direct access to Tier II information, given our reliance on many small LEPCs.

# INCREASE ACCESS TO SPILL INFORMATION FOR RESPONSE PARTNERS

## Incidents

Incident ID	Reported Date	Town	Address	Incident Description	Incident Status	Emergency Status	Incident Date	Incident Type	Incident Source	County	DEMHS Region	Lat/Long	Company Name	Chemicals	Last Updated	Action
202300955	04/14/2023 14:08:00	Berlin	257 Woodlawn Rd Berlin Ct 06037, Berlin, CT 06037	257 Woodlawn Rd Berlin Ct 06037 New Britain Transportation	Active	Emergency	04/14/2023	Petroleum Incident	Fixed Facility	Hartford County	3	41.6321 / -72.7477	State of CT Dept of Energy & Environmental Protection	Diesel as transportation fuel - 0	04/14/2023	Actions
202300954	04/14/2023 14:11:00	Newington	194 Kelsey Street, Newington, CT	1 gal container of motor oil fell out of truck, oil dry, Cisco Environmental contracted	Active	Emergency	04/14/2023	Petroleum Incident	Fixed Facility	Hartford County	3	41.6543 / -72.7492	GPM Investments	Motor Oil - 1 Gals	04/14/2023	Actions
202300953	04/14/2023 13:00:00	Torrington	734 east main street Torrington, CT	275 GALLON TANK IN BASEMENT LEAKING, UNKNOWN ON DRAINS	Active	Emergency	04/14/2023	Petroleum Incident	Fixed Facility	Litchfield County	5	41.81 / -73.1055	LCD	#2 Fuel Oil for heating - 0	04/14/2023	Actions
202300952	04/14/2023 12:26:00	Portland	316 Marlborough Street, Portland, CT	mva mixed mv fluids affecting storm drain	Inactive	Emergency	04/14/2023	Petroleum Incident	Transportation	Middlesex County	3	41.569 / -72.6276	Portland FD	Motor Oil - 2 Gals; Antifreeze - 2 Gals	04/14/2023	Actions
202300951	04/14/2023 10:00:00	Cheshire	I-84 WB PRIOR TO X26, CHESHIRE, CT	SADDEL TANK RUPTURE, MINOR LEAK, FD PUMPING DIELEL OUT OF ONE TANK INTO THE OTHER. NO DRAINS/WATERWAYS - I-84 WB PRIOR TO X26	Active	Emergency	04/14/2023	Petroleum Incident	Transportation	New Haven County	2	41.5451 / -72.9416	CHESHIRE	Diesel as transportation fuel - 0	04/14/2023	Actions
202300950	04/14/2023 08:38:00	Cromwell	99 South Street, Cromwell, CT	10 gal hydraulic oil contracted esi	Inactive	Non-Emergency	04/14/2023	Petroleum Incident	Transportation	Middlesex County	3	41.5934 / -72.6575	CWPM	Hydraulic Oil - 10 Gals	04/14/2023	Actions
202300949	04/14/2023 08:22:00	East Hartford	400 Main Street, East Hartford, CT	asbestos piping insulation 2 oz. AIG contracted	Inactive	Non-Emergency	04/14/2023	Chemical Incident	Fixed Facility	Hartford County	3	41.7558 / -72.6308	Pratt and Whitney	Asbestos - 0 Lbs	04/14/2023	Actions
202300948	04/14/2023 07:35:00	East Hampton	80 EAST HIGH STREET, EAST HAMPTON, CT	80 east high st east hampton propane leak from truck full tank has been leaking for a week	Inactive	Emergency	04/14/2023	Gas Emission Incident	Fixed Facility	Middlesex County	3	41.586 / -72.4934	EAST HAMPTON FD	Propane - 0 ; Propane - 20 Gals	04/14/2023	Actions
202300947	04/13/2023 09:30:00	Redding	, Redding , CT	Large pile of tires dumped in state park. 41.340179, -73.381234	Inactive	Emergency	04/14/2023	Petroleum Incident	Fixed Facility	Fairfield County	5	41.3402 / -73.3812	DEEP Parks		04/14/2023	Actions
202300946	04/14/2023 01:35:00	Suffield	957 Copper Hill Rd., West Suffield, CT	3 gallons of less than 2 ppm PCB Transformer Oil onto ground only at 957 Copper Hill Rd., West Suffield. US Ecology contracted to clean.	Inactive	Non-Emergency	04/14/2023	Dielectric Fluid Incident	Utility pole with transformer	Hartford County	3	41.9945 / -72.755	Eversource	Transformer Oil - 0	04/14/2023	Actions
202300945	04/13/2023 19:24:00	Wolcott	600 Woodtick Rd., Wolcott, CT	Sewage related Fish Kill at 600 Woodtick Rd., Wolcott.	Active	Emergency	04/13/2023	Sewage Incident	Nature	New Haven County	5	41.587 / -72.9703	DEEP Fisheries	Sewage - 0	04/13/2023	Actions
202300944	04/13/2023 18:48:00	West Haven	Main St. and Kelsey Ave., West Haven, CT	Mixed MV fluids from passenger car MVA onto ground surface only at Main St. and Kelsey Ave., West Haven. Speedi-dri.	Inactive	Non-Emergency	04/13/2023	Petroleum Incident	Transportation	New Haven County	2	41.2699 / -72.9575	West Haven FD	Gasoline as transportation fuel - 0	04/14/2023	Actions
202300943	04/13/2023 16:46:00	Sterling	Porter pond rd, sterling , CT	Porter pond rd. sterling CT off of 14a. Report of of diesel fuel ran down the middle of roadway.	Active	Emergency	04/13/2023	Petroleum Incident	Transportation	Windham County	4	41.6685 / -71.8259	Self	Diesel as transportation fuel - 0	04/13/2023	Actions
202300942	04/13/2023 16:35:00	Mansfield	Storrs Rd. at Oak Hill Rd., Storrs, CT	Contents of passenger car radiator on ground surface only due to MVA at Storrs Rd. and Oak Hill Rd., Storrs. Notification only.	Inactive	Non-Emergency	04/13/2023	Chemical Incident	Transportation	Tolland County	4	41.8069 / -72.2458	UCONN PD/FD	Antifreeze - 0	04/14/2023	Actions
202300941	04/13/2023 16:18:00	Windham	371 Mansfield Ave, Willimantic , CT	371 Mansfield Ave Willimantic CT. 2 gallons antifreeze leaked from oil cooler. Speedy dry cleanup no waterways affected. Per	Inactive	Non-Emergency	04/13/2023	Chemical Incident	Transportation	Windham County	4	41.7266 / -72.2264	Hop Energy	Antifreeze - 2 Gals	04/14/2023	Actions

<https://connecticut.hazconnect.com/Account/Login.aspx>



# INCREASE PUBLIC ACCESS TO SPILL REPORTS



Hazconnect

Welcome Diane Last Login: 04/14/2023, 01:17 PM

Change Role  
Log Out

- Home
- My Account
- System Reports
- Resources
- Summary

## Incidents

Click the Incident ID to launch the Incident Report

Incident ID	Incident Status	Incident Date	Incident Type	Incident Subtype	Incident Description	Source Type	Source Subtype	Incident Address	Chemicals
202300952	Inactive	04/14/2023	Petroleum Incident	Leaking Motor Vehicle	mva mixed mv fluids affecting storm drain	Transportation	Road Transport Motor Vehicle	316 Marlborough Street, Portland, CT	Motor Oil - 2 Gals Antifreeze - 2 Gals
202300950	Inactive	04/14/2023	Petroleum Incident	Hose Failure	10 gal hydraulic oil contracted esi	Transportation	Freight Road Transport Vehicle	99 South Street, Cromwell, CT	Hydraulic Oil - 10 Gals
202300949	Inactive	04/14/2023	Chemical Incident	Other	bestos pipeing insulation 2 oz. AIG	Fixed Facility	Commercial	400 Main Street, East Hartford, CT	Asbestos - 0 Lbs
202300948	Inactive	04/14/2023	Gas Emission Incident	Other	80 east high st east hampton propane leak from truck full tank has been leaking for a week	Fixed Facility	Commercial	80 EAST HIGH STREET, EAST HAMPTON, CT	Propane - 0 Propane - 20 Gals
202300947	Inactive	04/14/2023	Petroleum Incident	Dumping	Large pile of tires dumped in state park. 41.340179, -73.381234	Fixed Facility	Commercial	, Redding , CT	
202300946	Inactive	04/14/2023	Dielectric Fluid Incident	PCB over 1 ppm	3 gallons of less than 2 ppm PCB Transformer Oil onto ground only at 957 Copper Hill Rd., West Suffield. US Ecology contracted to clean.	Utility pole with transformer		957 Copper Hill Rd., West Suffield, CT	Transformer Oil - 0
202300944	Inactive	04/13/2023	Petroleum Incident	Leaking Motor Vehicle	Mixed MV fluids from passenger car MVA onto ground surface only at Main St. and Kelsey Ave., West Haven. Speedi-dri.	Transportation	Road Transport Motor Vehicle	Main St. and Kelsey Ave., West Haven, CT	Gasoline as transportation fuel - 0
202300942	Inactive	04/13/2023	Chemical Incident	Vehicle Accident	Contents of passenger car radiator on ground surface only due to MVA at Storrs Rd. and Oak Hill Rd., Storrs. Notification only.	Transportation	Road Transport Motor Vehicle	Storrs Rd. at Oak Hill Rd., Storrs, CT	Antifreeze - 0
202300941	Inactive	04/13/2023	Chemical Incident	Equipment Failure	371 Mansfield Ave Willimantic CT. 2 gallons antifreeze leaked from oil cooler. Speedy dry cleanup no waterways affected. Per HOP Energy notification only	Transportation	Freight Road Transport Vehicle	371 Mansfield Ave, Willimantic , CT	Antifreeze - 2 Gals
202300938	Inactive	04/13/2023	Chemical Incident	Fire	foam used on brush fire	Fixed Facility	Commercial	40 Barndoor Hills Road, Granby, CT	
202300936	Inactive	04/13/2023	Petroleum Incident	Hose Failure	5 gal hydraulic oil hose failure	Fixed Facility	Commercial	1 Technology Drive, Killingly, CT	Hydraulic Oil - 5 Gals

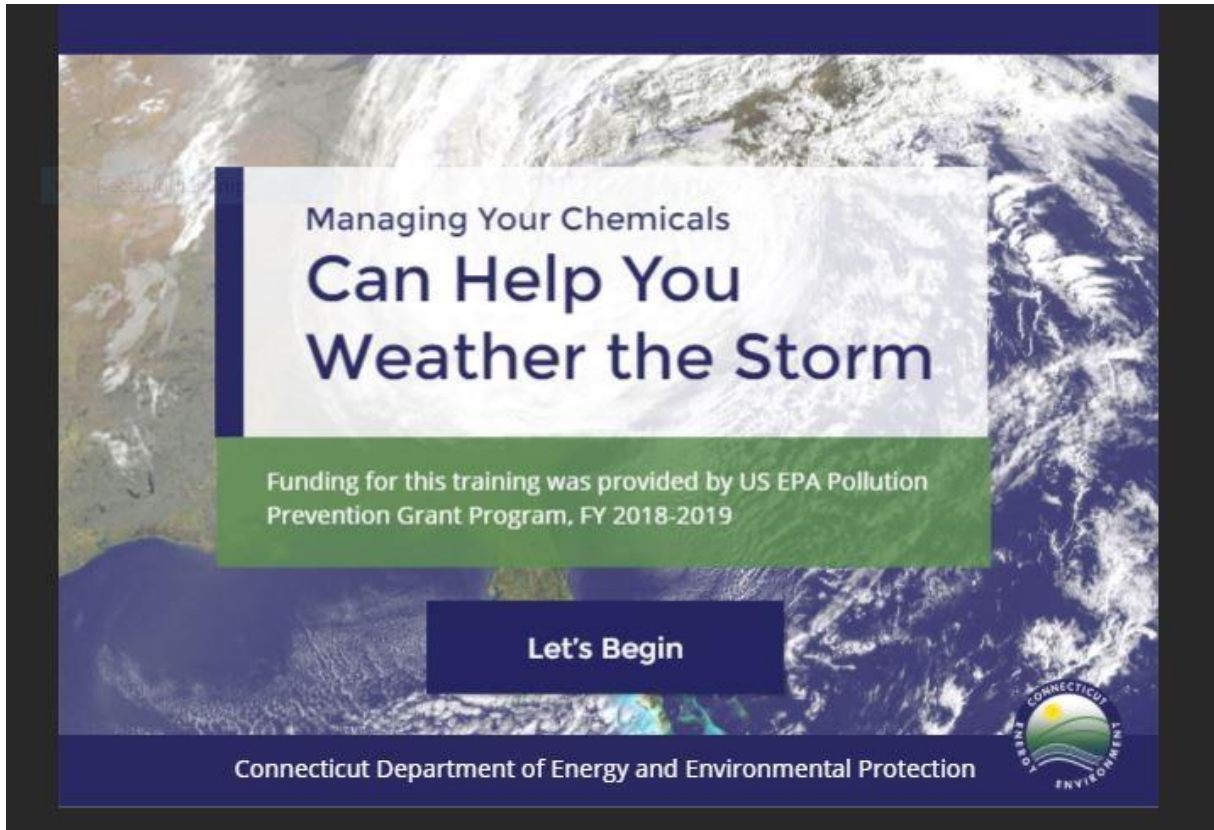
Public access to completed field reports

<https://connecticut.hazconnect.com/listincidentpublic.aspx>

# INFORMATION AND TRAINING RESOURCES TO ADDRESS INCREASED FREQUENCY AND INTENSITY OF FLOODING

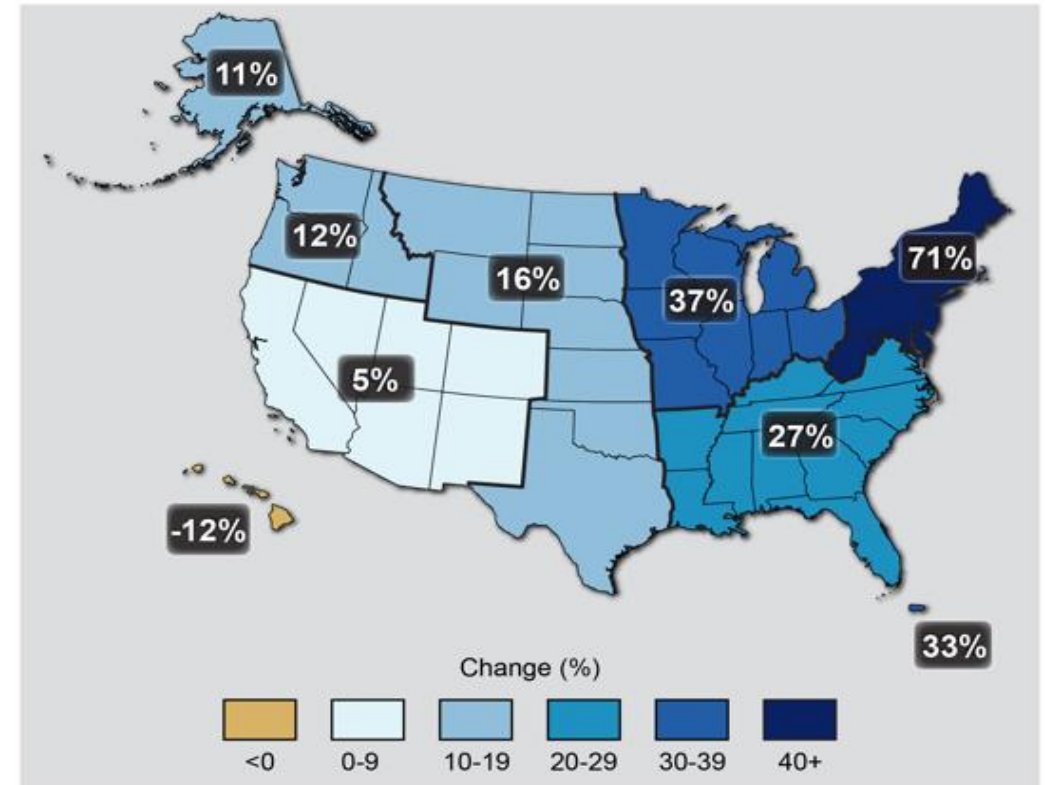
Training developed with assistance from a US EPA Pollution Prevention Grant

[Link to Online Training](#)



Increase in Extreme Precipitation Events  
(% change in last 50 years)

Observed Change in Very Heavy Precipitation



From National Climate Assessment and CIRCA website

# CT DEEP WEBPAGE CHEMICAL MANAGEMENT AND CLIMATE RESILIENCE




CONNECTICUT  
ENERGY & ENVIRONMENT

Connecticut  
**Department of Energy & Environmental Protection**

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**Chemical Management and Climate Resilience**

TAKE ACTION • BECOME A DISASTER-RESILIENT, PREPARED BUSINESS



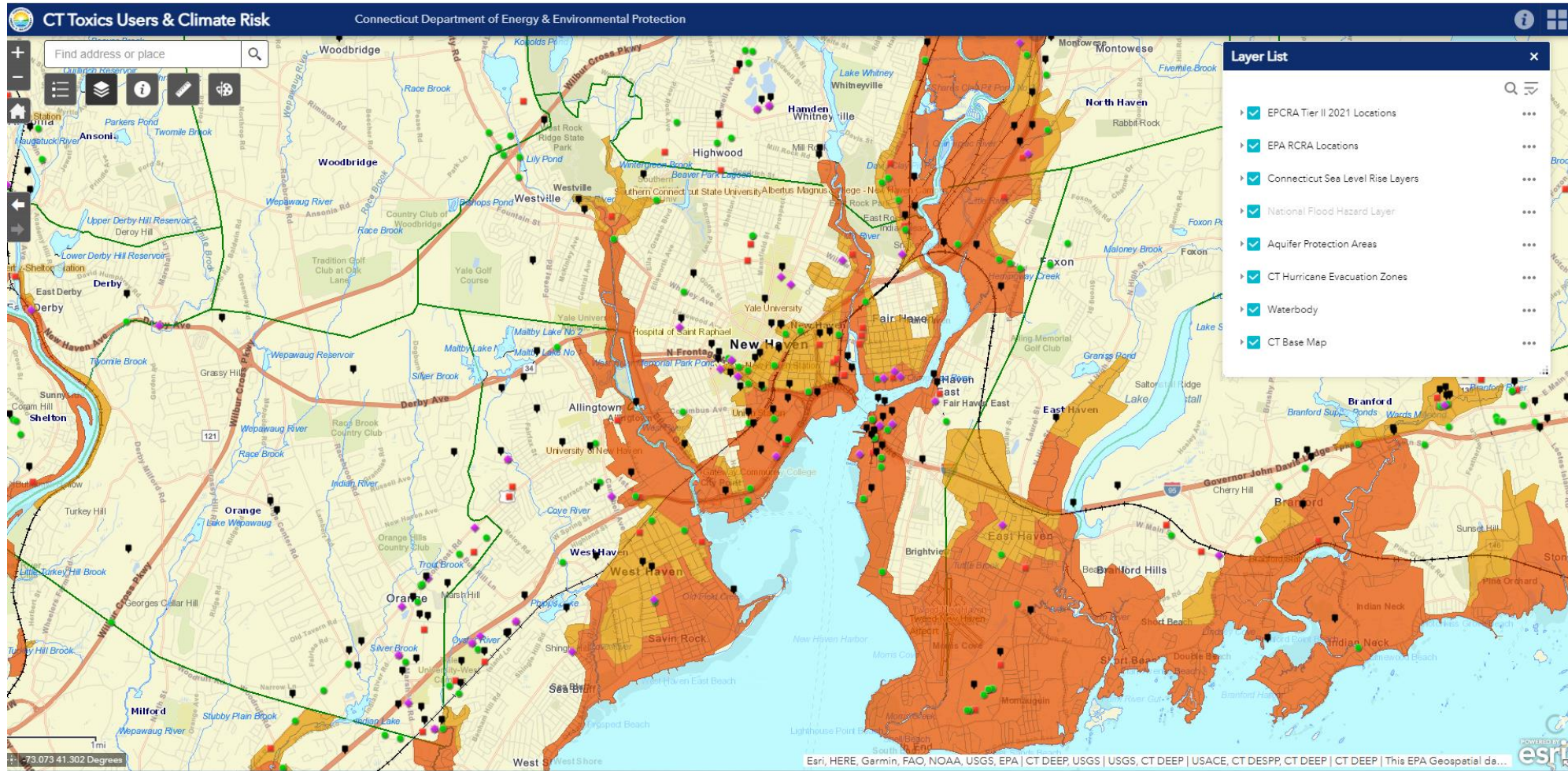
**CT's businesses can be prepared to "weather the storm"**  
Connecticut was hit with at least 5 major storms plus lesser weather events since 2010. It is important to make your business and property resilient to natural hazards and reduce the risk of on-site chemicals causing pollution. Storm events can result in property damage, loss of inventory, and environmental contamination and liability. Accidental releases of toxic chemicals have also put

[Pollution Prevention Main Page](#) >  
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[Home and Garden](#) >  
[Business/Industry/Healthcare](#) >  
[Faith Communities](#) >  
[Schools and Universities](#) >  
[State/Local Governments and Non-Profits](#) >  
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FEEDBACK +

<https://portal.ct.gov/DEEP/P2/Chemical-Management-and-Climate-Resilience/Chemical-Management-and-Climate-Resilience>

# CT TOXICS USERS & CLIMATE RISK MAP VIEWER



1. Locate your facility on the map by entering an address or zooming in on the map, 2. Determine which (if any) flood zones intersect your property, 3. Consider how events such as heavy precipitation, hurricane surges or sea level rise, may affect the facility, and 4. Implement best management practices to prevent damage or contamination from toxic on-site materials.

# DEEP'S OUTREACH MATERIALS FOR BUSINESSES: MANAGING CHEMICALS CAN HELP YOUR BUSINESS WEATHER THE STORM



## Connecticut Businesses can be Prepared to "Weather the Storm"

It is important to make your business and property resilient to natural hazards and reduce the risk of on-site chemicals causing pollution.

### The CT Department of Environmental Protection has free on-line training

"[The 21st Century Resilient Business: How Managing Chemicals Can Help Your Business Weather the Storm](#)" available to all business. It provides steps a facility can take to reduce risks and prevent damage, contamination and liability and keep your business operating. It is especially important for those in flood prone areas that use chemicals in their process, sell chemicals and store hazardous waste onsite, including service providers and retail stores that sell toxic products. Accidental releases of toxic chemicals have also put communities and emergency responders at risk. Working together, businesses and local emergency officials can increase awareness and take steps to reduce risk and protect human health and safety.

### This checklist provides information from the online training course.

Please use it as a summary after you've completed the training.

Already Done     In Progress     Complete

## Identify Your Risks

Key staff complete CT DEEP's 21 <sup>st</sup> Century Resilient Business Training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is your facility in a flood prone area? Use the <a href="#">CT Toxic Users map</a> or <a href="#">FEMA flood map</a> to locate your business/facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Locate if your facility is in a national flood zone, hurricane evacuation zone, or will be impacted by sea level rise.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Locate and identify neighboring businesses that could impact your business	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Know What Hazardous Materials Are On- Site



## THE RESILIENT 21ST CENTURY BUSINESS: How Managing Chemicals Can Help Your Business Weather the Storm

### Did you know?

- 40%** of disaster-struck businesses **NEVER REOPEN**
- 25%** of disaster-struck businesses that reopen eventually **FAIL**
- 90%** of businesses **without a plan FAIL within 2 YEARS** post-disaster



The average National Flood Insurance Program non-residential flood claim is almost \$90,000. Photo courtesy of The New London Day.

### Do you have hazardous materials, chemicals, or wastes on site?

If so, then you may already be subject to regulatory requirements.

Extreme weather could put your business, employees, & local community at risk.

That's why it's important to **make your business resilient** in the face of natural disaster.

Here are some tools to help!

**\$1 spent on hazard mitigation = \$6 saved on future disaster costs**  
National Institute of Building Sciences

Building your business was a big investment. Here's what you can do to protect it.

- Understand the risks to your business & community.
- Know which chemicals your business has on site.
- "Floodproof" your storage of chemicals, & train employees managing on-site chemical



**Become a disaster-resilient, prepared business!**



## THE RESILIENT 21ST CENTURY BUSINESS: How Retailers & Service Providers Can Manage Chemical Products to Weather the Storm

You may not realize that some products on your shelves or in your storage areas are **toxic** to humans & can **pollute** the environment.

Extreme weather could put your business & community **at risk**.

Here's how you can make your business **resilient** in the face of natural disaster.



The average National Flood Insurance Program (NFIP) non-residential flood claim is almost \$90,000. Photo courtesy of CNN.

- 1 Understand the risks to your business, employees, customers, & community.
  - 2 Know which products you sell or use that contain chemicals.
  - 3 "Floodproof" your storage of those products.
- Become a disaster-resilient, prepared business.**

Consider the chemical products your business uses, stocks, or sells, such as:

- Dry Cleaners & Laundromats**
  - Solvents & detergents
  - Spot cleaners
- Beauty & Nail Salons**
  - Plasticizers
  - Solvents
  - Pigments & dyes
- Hardware Stores**
  - Lawn & garden chemicals
  - Glues & adhesives
  - Road salt & de-icers
  - Paints & stains
  - Lubricants & degreasers
  - Propane tanks
  - Solvents
  - Pesticides
  - Cleaning products
- Funeral Homes**
  - Preservative chemicals (formaldehyde, disinfectants, & dyes)
- Gyms & Hotels**
  - Pool chemicals
  - Cleaning supplies
  - Winter de-icing chemicals
- Landscaping & Pest Control**
  - Lawn chemicals
  - Fertilizers
  - Pesticides
- Pharmacies**
  - Pharmaceuticals
  - First Aid items
  - Cleaning supplies
  - Lighter fluid
  - Hair dyes
  - Nail polish & remover

And many more!

# SAMPLE THE TRAINING

Let's Look at a Few Highlights (approximately 5 minutes of highlights):

<https://www.youtube.com/watch?v=1nwfZ23gulQ&feature=youtu.be>

Intro: 00 – 1:16

Who, Liability & 4 Steps: 5:25 – 7:24

Toxic Users Map: 7:43 – 9:00

Marina video clip: 17:01 – 17:24



# Thank you!

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