

### DAM SAFETY REGULATORY PROGRAM

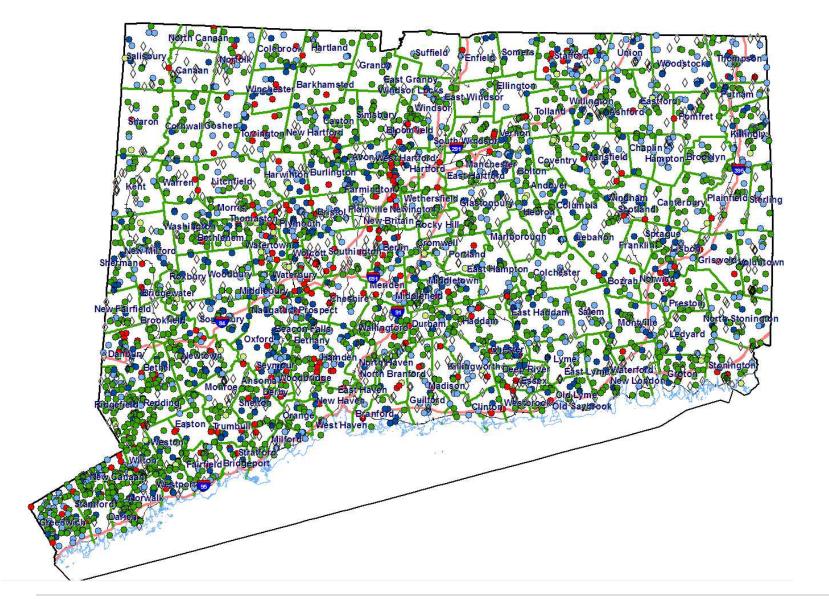
"All dams, dikes, reservoirs and other similar structures, with their appurtenances,..., which, by breaking away or otherwise, might endanger life or property, shall be subject to the jurisdiction conferred by this chapter."

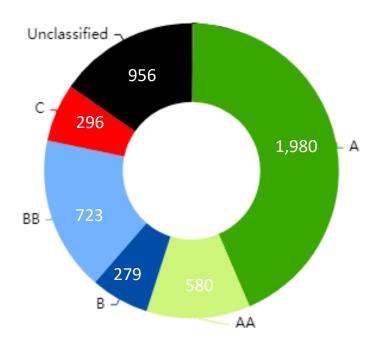
Chapter 446j Connecticut General Statutes - Section 22a-401





## DAM INVENTORY MAP





**C** – High Hazard Potential

**B** - Significant Hazard Potential

**BB – Moderate Hazard Potential** 

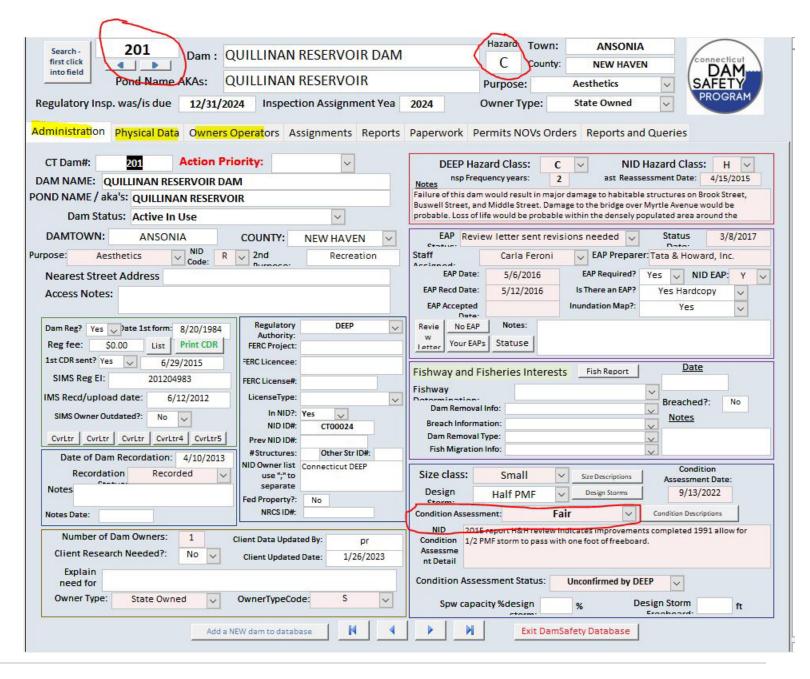
A - Low Hazard Potential

**AA** – Negligible Hazard Potential

### DAM SAFETY REGULATORY PROGRAM

Each dam has a....

- □CT Dam ID number
- Dam Name
- ☐ Hazard Class
- Condition



### THE RELATIONSHIP BETWEEN DAMS AND FLOODING



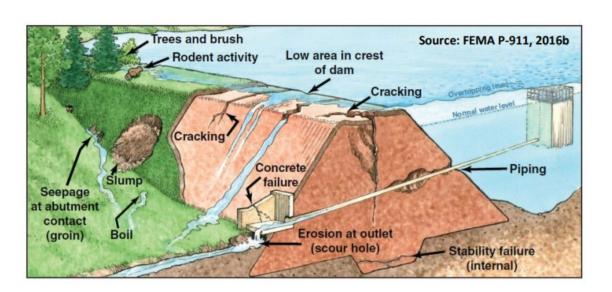
Ellithorpe Flood Control Dam In Stafford

## HIGH HAZARD DAM = HIGH RISK?



Dam that are at a higher risk of failure are dams which....

- Are not maintained
- Have deficiencies
- ☐ Are in poor condition







### DAM HAZARD CLASSIFICATIONS

AA

Negligible Hazard

No measurable damage if dam fails

Not regulated but the dam needs to be registered with the program.
Inspection frequency is determined by the municipality.

A

Low Hazard

Damage to Agricultural land, damage to paved local roadways, minimal economic loss

Inspected every 10 years

BB

**Moderate Hazard** 

Damage to normally unoccupied storage structures, damage to paved local roadways, moderate economic loss

Inspected every 7 years

B

Significant Hazard

Possible loss of life, minor damage to habitable structures, damage to local utility facilities, damage to collector roadways or railroads, significant economic loss

Inspected every 5 years

High Hazard

Probable loss of life, major damage to habitable structures, damage to major utility facilities, damage to arterial roadways, great economic loss

Inspected every 2 years



### **INSPECTION REPORTS**

When a dam owner receives a NORI they must follow these steps:

- 1. Hire a professional engineer to inspect their dam
- 2. Have the professional engineer submit the inspection report to our program via email DEEP.DamSafety@ct.gov

A professional engineer will assess the condition of the dam and give it a hazard class assessment (if the dam doesn't already have one) The professional engineer will thoroughly inspect the dam and take pictures of the dam. Once the professional engineer has inspected the dam, he/she will make recommendations on dam repairs and maintenance so the dam can be in compliance with state regulations.



79 Elm Street • Hartford, CT 06106-5127 www.c

www.ct.gov/deep/dams

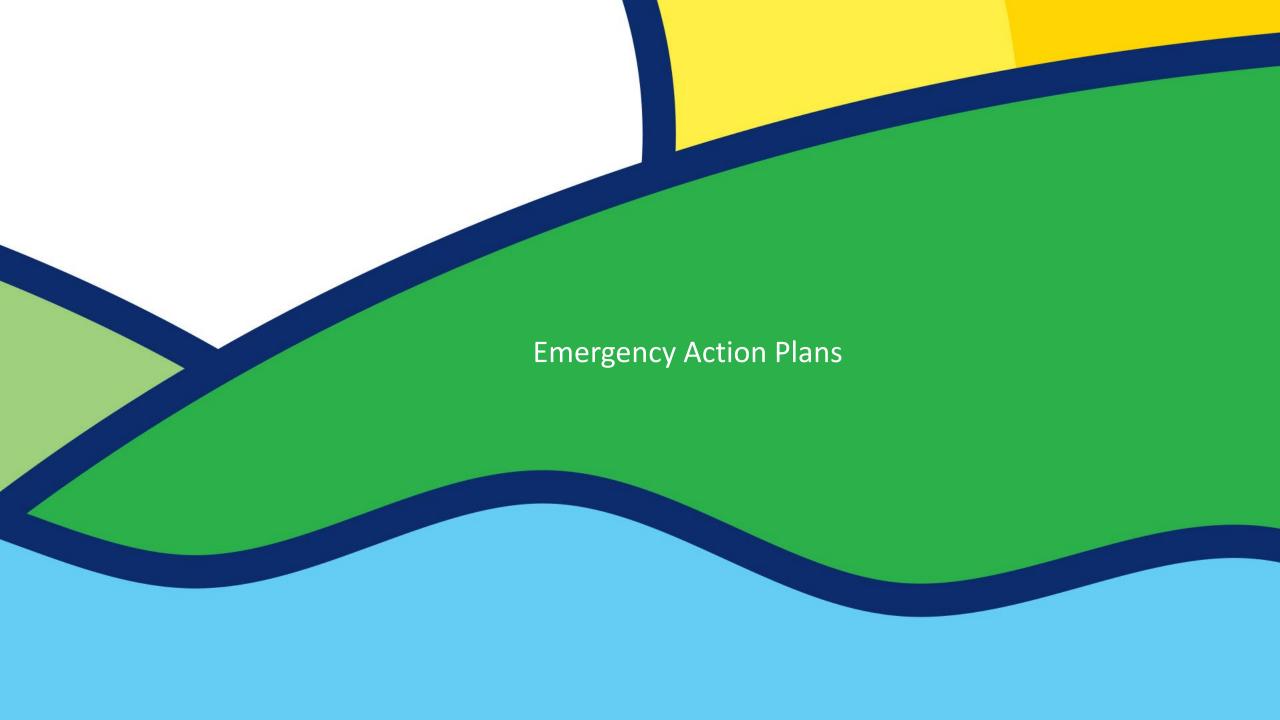
Affirmative Action/Equal Opportunity Employer

# DAM SAFETY PROGRAM DAM INSPECTION REPORT FORM – FOR REGULATORY INSPECTION

Please complete this form in accordance with the instructions (DEEP-DAM-INST-002). Please note that a separate inspection report is required for each individual structure (i.e., a dam and dike on the same waterbody would require two reports, one for the dam and one for the dike).

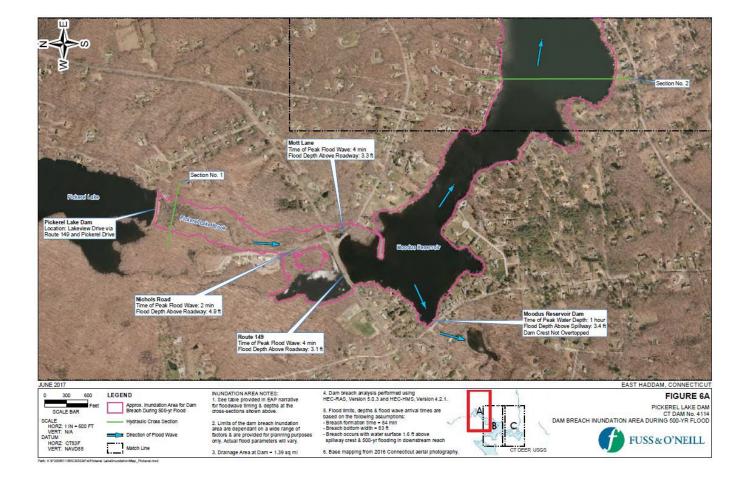
Dam Name:		Inspection D	Date(s):	
Alternate Dam Name(s):		CT Dam ID	#:	
ocation (Municipality):		Temperatur	e / Weather:	
Registered?: Yes or No f yes, provide the 9 digit egistration number found on he notification letter.		Pool Level: See Instruction	s	
Emergency Action Plan?  Yes or No  f Yes, see instructions		Impoundme use options list instructions		
Hydraulic and Hydrologic  Analysis? Yes or No  f Yes, see instructions		Stability Ana Yes or No If Yes, see inst		
	ection (select the ta	ab button in the last	cell to the right to create another r	ow)
Name	Title/Positio	n:	Representing	
	10			
	2 12 12 12 12 12 12 12 12 12 12 12 12 12			
2				

4/9/2025



### **EMERGENCY ACTION PLANS (EAP)**

Owners of Class C (high hazard) or B (significant hazard) dams must submit an EAP for their dam. An EAP contains two parts, one being the procedure taken in case of dam failure and the other being inundation mapping. The EAP needs to be updated every two years.



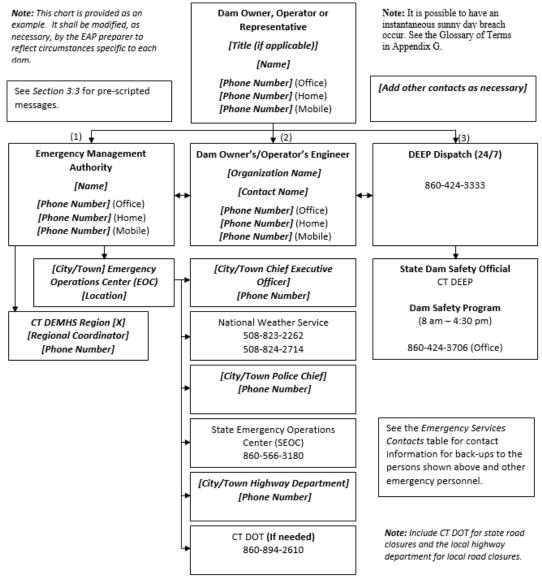
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# NOTIFICATION FLOWCHARTS

### **Final Warning Notifications**

#### Imminent dam failure; Evacuate downstream area



Note: (1), (2), etc., denotes call sequence

Revision Date: \_\_\_\_\_

# Connecticut Department of Energy & Environmental Protection Water Planning and Management Division Dam Safety Program

### **EMERGENCY ACTION PLAN COMPLETENESS REVIEW CHECKLIST**

Dam N	Name: CT Dam ID #:
Town	s): Date of EAP Submission:
TOWIT	Date of EAP Submission
	bate of EAr.
New o	or Updated EAP: If Updated, Date of Last Submission:
EAP F	Requirements
1.	Title Page
	a. Includes date the EAP was submitted
	<ul> <li>Identifies the document as an EAP and specifies the dam for which it was developed</li> </ul>
	<ul> <li>Includes dam names, CT Dam ID number, reservoir names, hazard class, and town(s) in which the dam is located</li> </ul>
2.	Executive Summary
	Includes description of:
	aPhysical components of the dam
	bPertinent history
	<b>c.</b> Riverine system upstream and downstream of the dam
3.	Location of Emergency Operations Center
	<ul> <li>aIdentifies location of an EOC - where responsible officials will gather during an emergency to direct and coordinate emergency operation (provide address and phone number)</li> </ul>
4.	Dam Monitoring Procedure
	Outlines procedures for monitoring the dam during periods of heavy rainfall and runof or when other conditions develop that warrant close monitoring of the dam
	aIdentifies person and their alternate(s) responsible for conducting
	monitoring of the dam
	bRequires initiation of the Dam Monitoring Procedure when the NWS announces a Flood Warning for the area where the dam is located, or when other conditions develop that warrant close monitoring
	other conditions develop that warrant close monitoring

### **EAP REVIEW CHECKLIST**



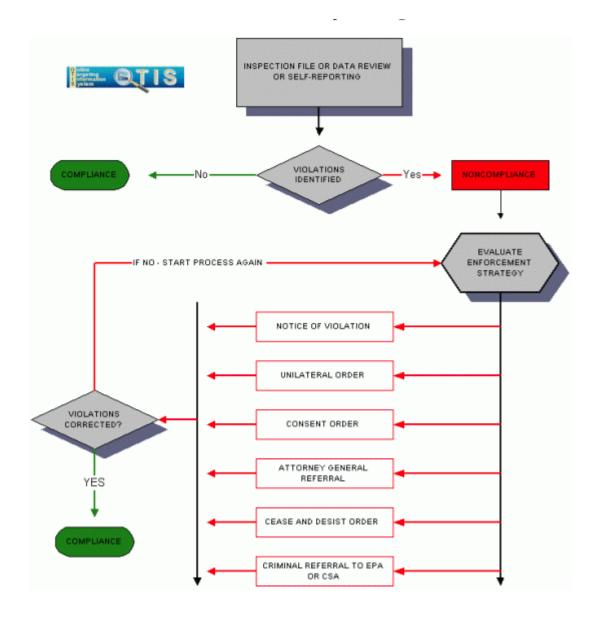
### SIGNIFICANT HAZARD DAMS

- ➤ Notices of Required Inspection sent in 2025 = 77
- Purpose (total # of B dams in CT = 279)
- ➤ Recreation & Aesthetics = 181
- Water Supply = 53
- **≻**Hydropower = 11
- **▶** Flood Control = 9
- >54 B Hazard Class Dams Received a Notice of Violation in 2025 for NOT submitting an EAP.

### HIGH HAZARD DAMS

- ➤ Notices of Required Inspection sent in 2025 = 109
- Purpose (total # of C dams in CT = 296)
- ► Recreation & Aesthetics = 102
- Water Supply = 112
- ► Hydropower = 10
- ► Flood Control = 60
- **▶** We are in the process of issuing Notice of Violations for C Hazard Class Dams.





### **FLOOD EVENTS OF 2024**







During the 8-18-2024 rain event we observed high flows at 13 dams. We also observed the damage caused by overtopping of the Rader Pond Dam in Woodbury, Wire Company Dams 2-3 in Seymour, and Papermill Dam in Southbury.



### **EMERGENCY AUTHORIZATIONS**

- We have had a record number of Emergency Authorizations in 2024
- ☐ Used when there is a dam emergency



## TRANSFER OF OWNERSHIP / PROPERTY DISCLOSURE FORM

YES	NO	UNK	N/A		B. GENERAL INFORMATION (Continued)
				•	8) Are you aware of the presence of a dam on the property that has been or is required to be registered with the Department of Energy and Environmental Protection? If yes, explain:

<- Property Disclosure Form: <u>2021---residential-</u> property-condition-report-final-revised.pdf

### TRANSFER OF OWNERSHIP

Transfer of Ownership ->

The portion below must be completed by the seller at the time of transfer of the property containing all or part of the above referenced dam and submitted to the Department of Energy and Environmental Protection, Inland Water Resources Division, Dam Safety Section, 79 Elm Street, Hartford, CT 06106-5127.

DAM NAME / ID#: 13403 POMEROY FLOOD CONTROL SITE #3

LOCATION OF DAM: Parcel ID:

BUYER'S NAME:

BUYER'S ADDRESS:

DATE SOLD:

## **BEAVER ACTIVITIES**

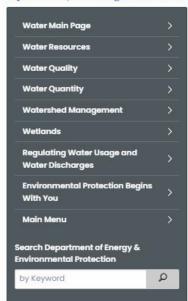








CT.gov Home / Department of Energy & Environmental Protection / Water / Dams Safety



### Dam Safety Regulatory Program

The mission of the DEEP Dam Safety Regulatory Program is to ensure the safety of dams to protect life, property, and the environment by ensuring that all dams are designed, constructed, operated, and maintained safety and effectively. Dam Safety Statutes & Regulations

The Dam Safety Statutes were last substantially revised by Public Act 2013-197, which authorized changes regarding Emergency Action Plans (EAPs) and inspection requirements:

- Dam owners in the State of Connecticut are now responsible for hiring a consultant to conduct regular dam inspections.
- The owners of high hazard (Class C) and significant hazard (Class B) dams must file an EAP every two
  years.

The Dam Safety regulations were most recently revised with an effective date of February 3, 2016.

- 22a-409: Definitions, Registration, Classification, Inspections
- 22a-411: Definitions, Requirements for Emergency Action Plans

#### Requirements of the Dam Safety Regulatory Program:

- Emergency Action Plans (EAPs)
- Dam Inspections
- . Dam Registration and Dam Recordation
- · Permitting (Dam Repairs, Alterations, or Removals)

#### Submissions to the Dam Safety Regulatory Program:

Dam Safety permit applications should be submitted to the DEEP Central Permit Processing Unit.

All other submissions must be sent to the DEEP Dam Safety Regulatory Program in electronic pdf format for our official records. These submissions should be sent via email to DEEP.DamSafety@ct.gov if possible. If the file is greater than 20 MB, please review our Electronic File Transfer Fact Sheet

Please note that we also continue to require that paper copies of EAPs be submitted for our use in the event of an emergency. Staff Engineers may also request paper copies of site plans and inspection reports. When submitting paper copies of plans, please submit full-sized plans to assist our review!

The Dam Safety Regulatory Program also offers in-person file reviews. File review appointments are currently only being offered on Tuesdays. Please fill out the Dam Safety File Review Request Form d and submit it to DEEP.DamSafety@ct.gov to request an appointment.

#### DEEP Dam Safety GIS Database:

The Connecticut Department of Energy and Environmental Protection (DEEP) maintains an inventory of the

https://portal.ct.gov/deep/water/dams/dams-safety

### **INFOGRAPHIC**





### **Dam Safety Program**

#### Frequently Asked Questions

#### 1. Who is responsible for inspecting, monitoring, maintaining, and repairing dams?

The dam owner is responsible for maintaining their dam, hiring an engineer to inspect the dam, and for making repairs to the dam with appropriate permits.

#### 2. If I have a concern with a dam, whom do I call?

You can call the Dam Safety Program at 860-424-3706 or email us at DEEP.DamSafety@ct.gov

#### 3. If a dam owner is not responsive, does DEEP have any enforcement authority?

Yes, the Dam Safety Program follows the Department's enforcement policy.

#### 4. How often are dams inspected?

Each dam has a hazard classification, the hazard classification determines how often a dam is inspected. The inspection frequency ranges from 2-10 years. For more information on inspection reports please visit:

https://portal.ct.gov/deep/water/dams/dam-inspections

#### 5. What dams are required to have an Emergency Action Plan? Where can I get a copy?

Hazard Class B (Significant) and C (High) dams are required to submit an Emergency Action Plan. The Emergency Action Plan can be accessed by contacting the Dam Safety Program.

#### 6. Can a dam owner lower water levels in the impoundment before a storm?

Adjusting the water level before and after storm events is subject to the Connecticut Water Diversion Policy Act Statute Section 22a-365. Flow of the water and the water surface elevation of impoundments with a drainage area of 100 acres or more cannot be changed without a Water Diversion Permit. As the dam owner, if you plan to lower the water level before storm events, then you should apply for a CT DEEP Water Diversion Permit and contact the CT DEEP Fisheries Division (deep.inland.fisheries@ct.gov). For water diversions proposed on impoundments with a drainage area less than 100 acres, please contact the local municipality for permitting requirements. For further inquiries and questions please contact the Land and Water Resources Division (860-424-3019). All drawdown notifications should be sent to the Dam Safety Program (DEEP.DamSafety@ct.gov).

#### 7. Whom do I contact for beaver problems?

There is information and resources about removing the beaver on this website: <a href="https://portal.ct.gov/DEEP/Wildlife/Nuisance-Wildlife/Problems-with-Beavers">https://portal.ct.gov/DEEP/Wildlife/Nuisance-Wildlife/Problems-with-Beavers</a>

#### 8. Can the dam owner make repairs to their dam without notifying the Dam Safety Program?

No, most repairs to dams require permits. Certain dam repair activities can be authorized under a Dam Safety General Permit while others may need a Dam Safety Individual Permit. Please contact the Dam Safety Program or visit the website for more information.

#### 9. How do I know the hazard classification of a dam?

The hazard classification of a dam is determined by what would be impacted downstream if the dam were to fail. The determination can be made by a professional engineer by performing a dam breach analysis.

#### 10. How do I register a dam?

Dams can be registered using the dam registration form, please contact the Dam Safety Program for a copy. Dams already registered with our program can be found on our registration page here:

https://portal.ct.gov/deep/water/dams/dam-registration-and-dam-recordation

#### 11. What if I am buying/selling a property with a dam on it?

The dam owner must disclose that there is a dam on their property and notify the Dam Safety Program about the ownership change. Effective October 1, 2021, the Residential Property Condition Disclosure Report was amended to include a question relating to dams (See Public Act 21-41). Sellers of residential property will now be required to disclose whether there is a dam on the property, and, if so, include a statement advising buyers that information relating to registration of the dam can be obtained from the Connecticut DEEP.

Residential Property Condition Report: <a href="https://portal.ct.gov/-/media/dcp/forms/2021---residential-property-condition-report-final-revised.pdf">https://portal.ct.gov/-/media/dcp/forms/2021---residential-property-condition-report-final-revised.pdf</a>

#### 12. How do I know if there is a dam near me?

The Dam Safety Program website hosts a GIS mapper which locates privately/state owned dams in Connecticut (<u>Dams Public Viewer Application (arcgis.com)</u>)

#### 13. If there is a dam emergency outside of normal business hours, whom do I contact?

Please call DEEP Dispatch at 860-424-3333.

# Thank you!

# Deep.DamSafety@ct.gov