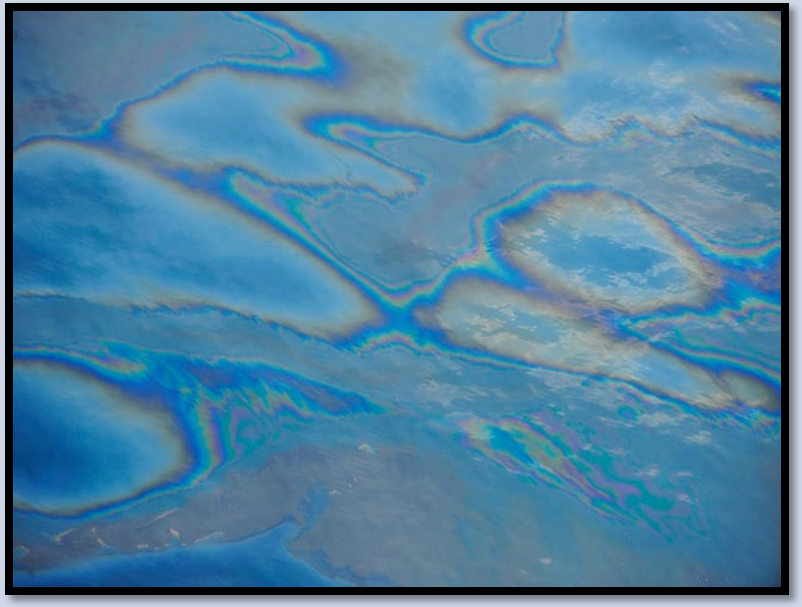
U. S. Coast Guard Sector Boston

May 2018 – October 2018

Pollution Statistics for Port of Boston
MAY 2018 – OCT 2018



- **NRC Reports Received:** 62
- **Reports by other means:** 13
- **Reports resulting in cases:** 59
  - Oil - 55
  - Hazardous Substance – 03
  - Sinking - 1
- **OSLTF funded responses:** 2
- **CERCLA funded responses:** 1

F/V Hit List

August 24, 2018

- While returning to port during a fishing competition, F.V Hit List caught fire near the Newburyport Harbormaster's office.

- Due to its close proximity to shore and the public, the vessel was doused with water and forcibly sunk, ensuring the immediate extinguishing of the fire, but causing a discharge of approximately 300 gallons of diesel fuel.

Hull Material	Fiberglass
Length	42'
Tank Capacity	700 Gallons
Estimated Discharge	300 Gallons

F/V Hit List

Response Actions

- Shore side evacuation of vessel passengers
- Fire extinguished, resulting in discharge
- Containment Boom and sorbent materials Deployed
- Vessel raised and towed to boat lift
- Shoreline assessments continued into the following day to identify effected areas for cleanup

F/V Hit List

Response Challenges

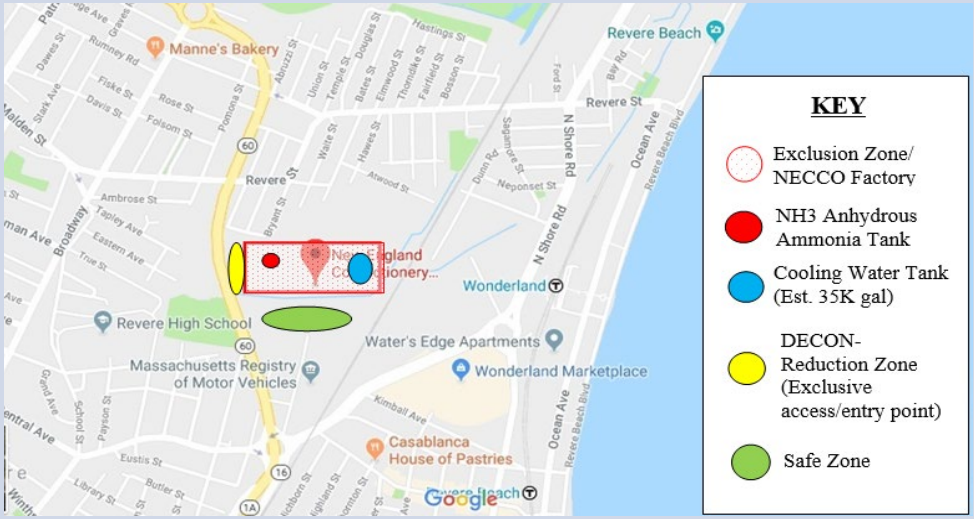
- Incident Location was a public waterfront during peak tourist season and during a popular event.

- Nighttime response and reduced visibility limited the effectiveness of shoreline assessments.

NECCO Ammonia Release

September 11, 2018

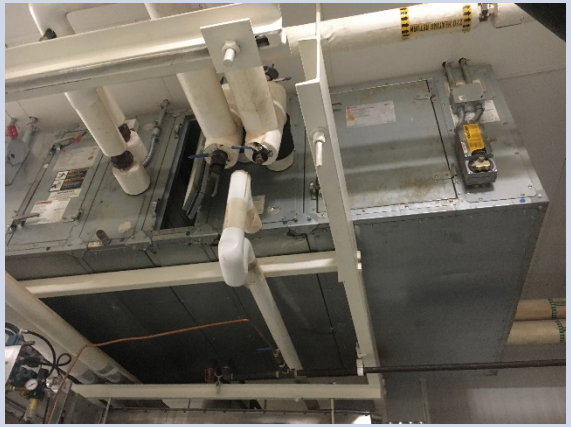
- Sector Boston received notification of an ammonia release at the New England Confectionery Company (NECCO) in Revere, MA.
- Massachusetts State Fire Hazmat and Revere Fire Department responded and found "aqueous ammonia" released into the environment.
- Upon further investigation of the source, it was found that the closed loop anhydrous ammonia and cooling water system cross contaminated. The cooling water system extends across a 850,000 square foot of the facility and contains approximately 11,500 gallons of cooling water.



NECCO Ammonia Release

September 11, 2018

- **FOSC**: U.S. Coast Guard Sector Boston
- **UC**: Sector Boston, Mass DEP, Mass State Fire, Revere FD
- **OGAs**: EPA, Revere PD, Atlantic Strike Team (Requested)
- **RP**: NECCO
- **OSRO**: NRC
- **CERCLA Case**: C18070 ($20,000)
- **Personnel:** >150 (included decon, ambulance, PD, fire, hazmat, USCG, EPA, Mass DEP)



NECCO Ammonia Release

Response challenges

- Event Complexity (ICS type 2)
- Termination of Building Permits
- Night time operations
- Lack of records
- Moderate media interest
- RP led auction

NECCO Ammonia Release

September 29, 2018
End of the emergency phase

- 23,210 pounds on ammonia removed
- 9,750 gallons of contaminated water removed.

Eversource Dielectric Discharge

April 13,2018

- Initial Notification: April 13, 2018

- Description: An underwater/ground electrical cable leaking dielectric fluid into the environment, impacting the Mystic River and small portions of the shoreline along Everett, MA. Unsure of initial source, determined location of leak with a freeze test. Location found to be under I93 bridge in Somerville, near Mt. Vernon Restaurant

- An estimated total of 6870 gallons of Dielectric Fluid was discharged from the PTC line before the line was permanently repaired.

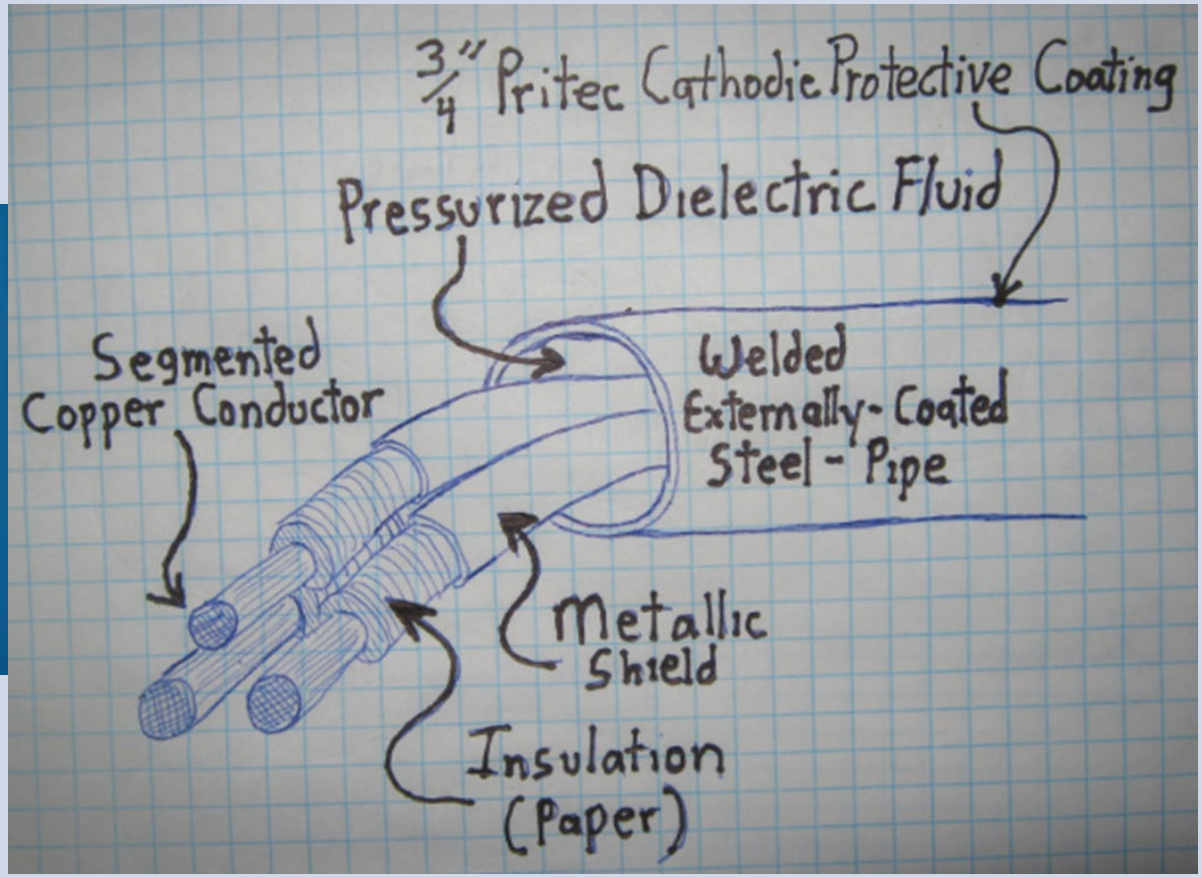
- Total Oil Recovered (to date): 4350 gallons
- The amount of oil / water recovered : 46,071 gallons
- The amount of hard boom deployed: 2,600 feet

- UC: Sector Boston, Mass DEP, Eversource

- Resources: NOAA SSC, Dive teams, ROV, SS Sonar
  Clean Harbors, GZA, Work boats, Air monitoring
  Water monitoring, Sampling, Work crews,
  Police escorts, Stakeholder engagement

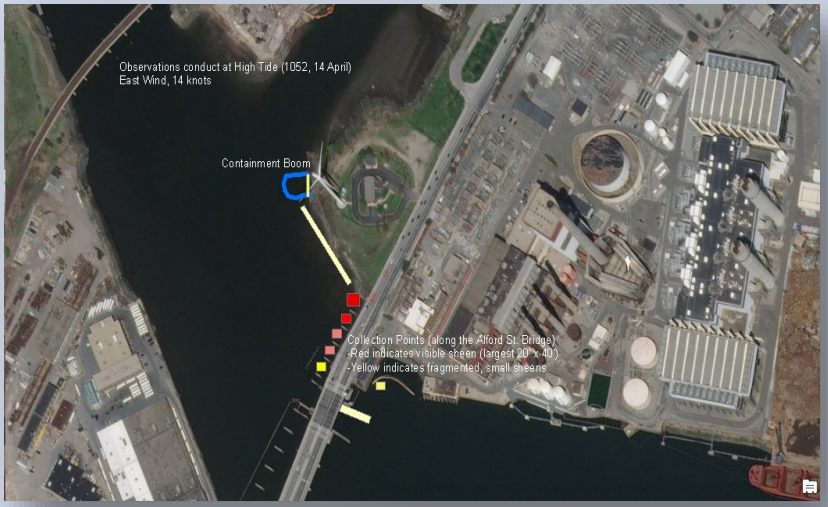
Eversource Dielectric Discharge

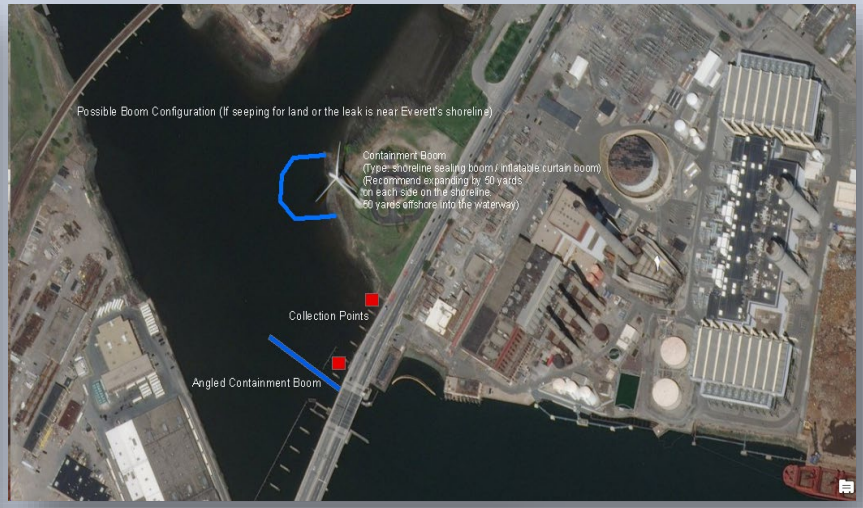
3-Phase Electric Power Transmission
Pipe Type Cable (PTC)



Eversource Dielectric Discharge

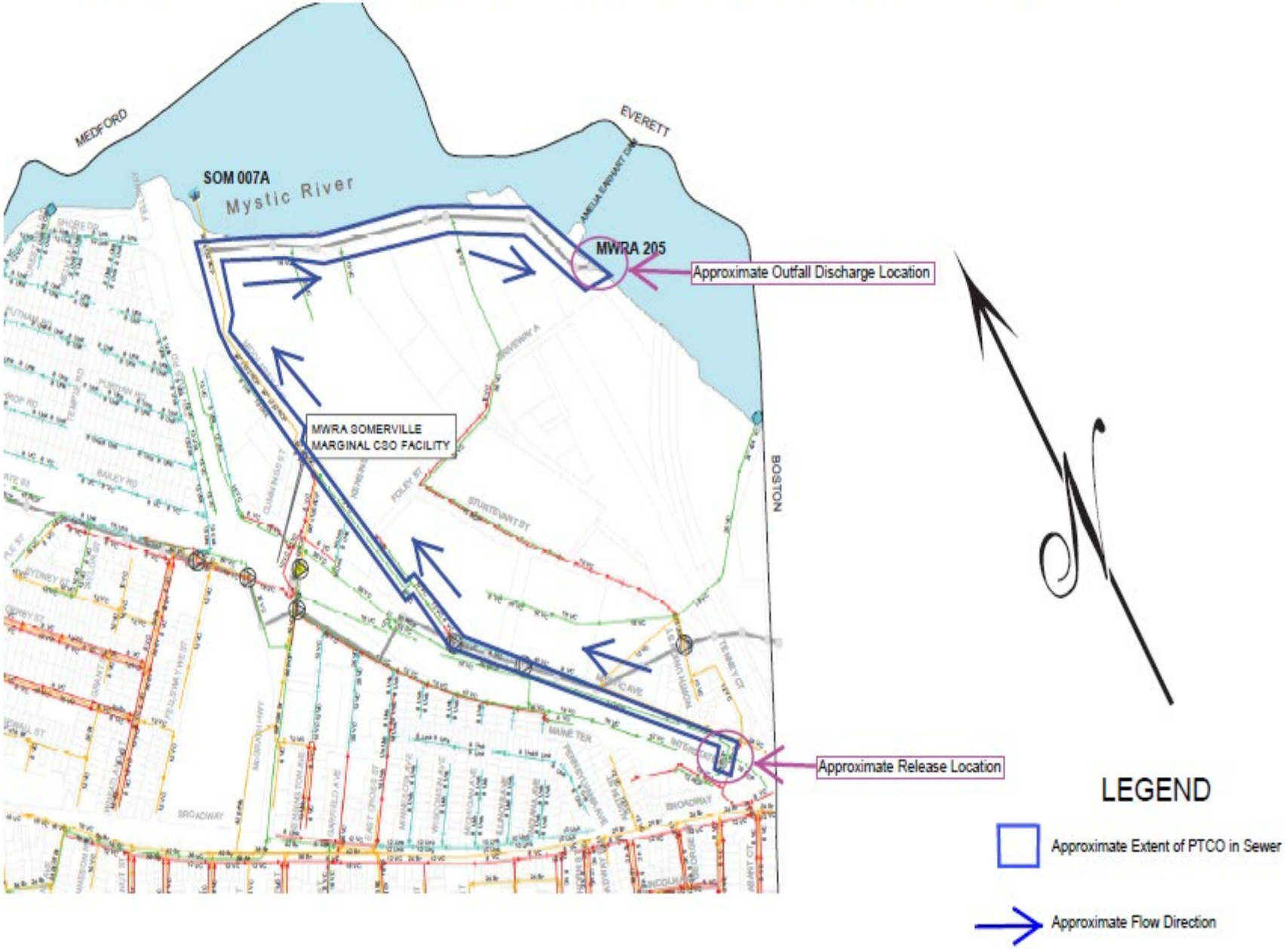
Eversource Dielectric Discharge





Outfall

FIGURE 1 - APPROXIMATE EXTENT OF PTCO IN SEWER



Eversource Dielectric Discharge

- Boom deployed around outfall in Draw Seven Park, Wynn (Encore) Casino living Shoreline, MRWA wind turbine shoreline, Constitution, Admirals Hill Marina
- Collection Draw Seven Park Outfall
- Flushing of manhole system in Somerville
- Continued monitoring sheen in Lower Mystic

Eversource Dielectric Discharge

Wildlife

- Referencing the Environmental Sensitivity Index Maps (Map 7B), there are fish, birds, and invertebrates at risk.

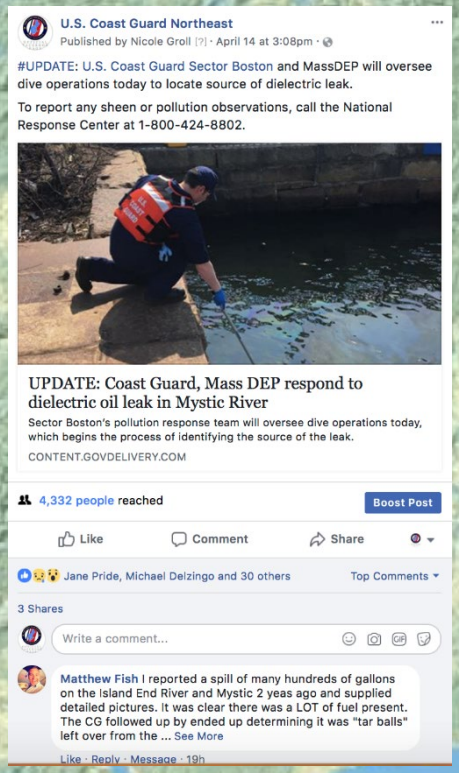
- Fish (572): Alewife, American Eel, American Shad, Blueback Herring, Rainbow Smelt
  - All expected to be present in April. Spawn, Eggs, Larvae season.
- Fish (622): Threespine Stickleback
  - Common concentration, present all year. Estuarine resident

- Birds (170): Rare Tern, American Oystercatcher, Red Knot, Shorebirds, Willet, Wading Birds
  - All usually present in April. Nesting season for Willet. The rest possess nesting seasons starting in May.
  - Notes: Two nesting sites were observed (Canada goose (Branta canadensis)). One is 20 yards ashore from the initial discovery site. The second one is along the concrete slab of Alford Street Bridge (Everett Side).

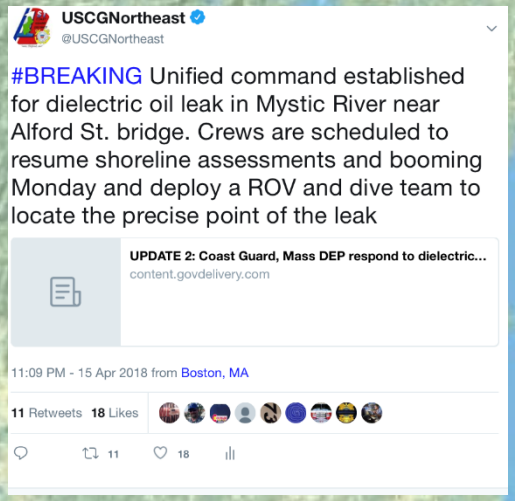
- Invertebrates: Horseshoe Crab
  - Abundant in concentration. Spawn and Egg season commences in May.

Mystic River Public Affairs

Facebook



Twitter



Media coverage remains neutral with outlets keeping to press release messaging.

Eversource Dielectric Discharge

- UC: Sector Boston, Mass DEP, Eversource
- Key Decisions: Decision Memorandum Incident End Points
- Current state of the case

Decision Memorandum
Incident End Points

Name of Requester: MSSR2 Omar Borges, USCG
Federally Defined Response Area: Boston Harbor
Product Spilled: DF 100
Effective date of proposal:

Subj: DECISION MEMO REGARDING THE MITIGATION OF ENVIRONMENTAL THREATS FROM THE MYSTIC RIVER DIELECTRIC SPILL

UNIFIED COMMAND

The Unified Command is comprised of entities or agencies, which have jurisdictional responsibilities during response to an incident. In this case the governing authorities are the U.S. Coast Guard, Federal on Scene Coordinator for the Coastal Zone, Massachusetts Department of Environmental Protection, State on Scene Coordinator and the Responsible Party Eversource Energy as defined in 40 Code of Federal Regulations 300.5.

END POINT GUIDING PRINCIPLES

Shoreline treatment or shoreline cleanup endpoints are specific criteria assigned to a segment or unit of oiled shoreline or river bank that are used to define when sufficient treatment effort has been completed for that segment or unit. In effect, the endpoints are the practical definition of 'clean' for that particular segment of shoreline in that particular spill. The selection of appropriate and practical end points is part of the net environmental benefit evaluation in the decision process that is conducted during the development of the shoreline treatment plan. Endpoints affect the selection of response strategies and tactics, provide a target for the operations team, and are a standard against which the achievement of treatment can be compared so that closure can be achieved.

INCIDENT ENDPOINTS

MAN-MADE STRUCTURES - PILINGS, SEAWALLS, SHEET-PILE (NONPOROUS OR LOW POROSITY OBJECTS):

Structures shall be free of bulk oil and not produce a sheen under all weather conditions. Oil stains that cannot be removed easily will remain to weather and degrade naturally.

It may not be feasible to remove impacted media with heavier (non-sheening) oil in some inaccessible areas.

No sheen on the water surface under all weather conditions.

Incident Management Division

Response Chief: CDR Marc R Sennick

IMD: LT Brandon Aten

MER: Branch LTJG Lucy Daghir
CWO Omar Borges
MST1 Adam McInnish
MST3 Derrek Berkley
MST3 Hayden Hunt

QUESTIONS