

MassDEP North Shore Geographic Response Strategy

Essex Bay NS12A

Tactics Legend

- DF

Deflection Booming
- DV

Diversion Booming
- EX

Exclusion Booming
- FO

Free Oil Recovery
- PR

Passive Recovery
- SR

Shoreside Recovery
- S

Staging Area
- Boat Ramp
- BB

Beach Berm
- TG

Tide Gate
- Protected-Water Boom
- Open-Water Boom
- Snare/ Sorbent Boom

Equipment - All Tactics

Boom(ft)	1800
Marine anchors	10
Shore anchors	5
Sorbent Boom(ft)	8600
FO Recovery Sys	0
Shore Responders	2
Boat Responders	3
Boats	2








Version
2/15/2023



Response Trailer, Tactics Deployment, and Responder Safety Information		Location	
A total of 2 state response trailers are required to implement all the tactics in this GRS.		Latitude:	42°39'45" N
Responders should always consider on-scene conditions before deploying GRP tactics.		Longitude:	70°45'22" W
Tactics may not be safe or effective under certain conditions.		NOAA Chart #	13279
Responder safety should always be the first priority.			

Geographic Response Strategy

Essex Bay NS12A

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
DV-01 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	800 ft protected water boom 4 marine anchor system 1 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to divert incoming oil to the collection site. Anchor every 200-300'. Adjust angle as necessary to reduce entrainment. Set up shoreside recovery and tend throughout tide. Deploy shoreside anchor first.
		N/A Testing Date	N Tested	
EX-02a 	Prohibit oil slicks from entering a sensitive area	500 ft protected water boom 3 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		N/A Testing Date	N Tested	
EX-02b 	Prohibit oil slicks from entering a sensitive area	500 ft protected water boom 3 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first. Readjust boom angle as needed to reduce entrainment
		N/A Testing Date	N Tested	
PR-03 	Remove spilled oil by collecting it in a sorbent material	600 ft sorbent boom 600 ft sorbent pom-poms 17 anchor stakes	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A Testing Date	Tested	
PR-03 	Remove spilled oil by collecting it in a sorbent material	4100 ft sorbent boom 4100 ft sorbent pom-poms 117 anchor stakes	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A Testing Date	Tested	
PR-03 	Remove spilled oil by collecting it in a sorbent material	3900 ft sorbent boom 3900 ft sorbent pom-poms 111 anchor stakes	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A Testing Date	Tested	
SR-04 	Remove spilled oil that has been diverted 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. Some access points located at private residences. Access may be difficult.
		N/A Testing Date	Tested	

Geographic Response Strategy

Essex Bay NS12A

Local contacts

Essex Fire Department	978-768-6511
Essex Harbormaster	978-768-6363
Essex Shellfish Constable	978-361-5044
Mass Bays Estuary Assn	978-374-0519
U.S.C.G. Station Merrimack	978-462-3428
Mass Division of Marine Fisheries	617-626-1520
Environmental Police	800-632-8075



Castle Neck River and site of DV-01b (08 April 2008 photo)

Resources Protected

Marine Mammals	None identified
Fish	None identified
Invertebrates	Shellfish
Birds	Roseate Tern
Threat/End. Species	None identified
Cultural	None identified
Subsistence	None identified
Human Use	Boat Ramps, Beach, Mooring Fields
Commercial Fishing	None identified
Land Management	None identified
Coastal Habitat	Marsh/Swamp, Tidal Flats, Beach, Rocky Shore



Entrance to Farm Creek and site of EX-02a (09 April 2009 photo)

Special Considerations & Navigational Hazards

Tide range 7-9 ft. Tidal current max speed of 2-3 kts in main channel. Less than 1 kt in side creeks. Extensive tidal flats exposed during low tides. Vessel operators should have local knowledge and experience in operating in strong currents.

Tactics Legend

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Tide Gate
- Protected-Water Boom
- Open-Water Boom
- Snare/ Sorbent Boom

Equipment - All Tactics

Boom(ft)	700
Marine anchors	4
Shore anchors	3
Sorbent Boom(ft)	3900
FO Recovery Sys	1
Shore Responders	2
Boat Responders	3
Boats	2

Version






2/15/2023



Response Trailer, Tactics Deployment, and Responder Safety Information		Location	
A total of 1 state response trailers are required to implement all the tactics in this GRS.		Latitude:	42°39'18" N
Responders should always consider on-scene conditions before deploying GRP tactics.		Longitude:	70°43'33" W
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Geographic Response Strategy

Essex Bay NS12B

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
DV-01 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	300 ft protected water boom 2 marine anchor system 1 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to divert incoming oil to the collection site. Anchor every 200-300'. Adjust angle as necessary to reduce entrainment. Set up shoreside recovery and tend throughout tide. Deploy shoreside anchor first.
		Testing Date	N Tested	
EX-02 	Prohibit oil slicks from entering a sensitive area	400 ft protected water boom 2 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		Testing Date	N Tested	
PR-03 	Remove spilled oil by collecting it in a sorbent material	3900 ft sorbent boom 3900 ft sorbent pom-poms 111 anchor stakes	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A	Testing Date	
FO-04 	Contain and recover spilled oil on the water in the offshore & nearshore environment	1 or more onwater skimming systems		Deploy on-water recovery task force(s) in configuration suitable for types of vessels used and sea conditions, with skimming system(s) and temporary storage for recovered oil and water. Location not exact, will move to chase oil.
		N/A	Testing Date	
SR-05 	Remove spilled oil that has been diverted 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. Some access points located at private residences. Access may be difficult.
		N/A	Testing Date	

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Birds	Roseate Tern
Threat/End. Species	None identified
Cultural	None identified
Subsistence	None identified
Human Use	Boat Ramps, Beach, Mooring Fields
Commercial Fishing	None identified
Land Management	None identified
Coastal Habitat	Marsh/Swamp, Tidal Flats, Beach, Rocky Shore



Entrance to Farm Creek and site of EX-02a (09 April 2009 photo)

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