

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)	2200
Marine anchors	12
Shore anchors	3
Sorbent Boom(ft)	0
FO Recovery Sys	1
Shore Responders	2
Boat Responders	6
Boats	2

Version






2/15/2023



Response Trailer, Tactics Deployment, and Responder Safety Information		Location	
A total of 3 state response trailers are required to implement all the tactics in this GRS.		Latitude:	42°39'19" N
Responders should always consider on-scene conditions before deploying GRP tactics.		Longitude:	70°40'52" W
Tactics may not be safe or effective under certain conditions.		NOAA Chart #	13281
Responder safety should always be the first priority.			

# Geographic Response Strategy

North Annisquam River NS13A

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
<b>DV-01a</b> 	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 1 shoreline anchor system	2 shore responders 2 response boats 6 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.
		<b>Testing Date</b>	<b>N Tested</b>	
<b>DV-01b</b> 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	700 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.
		<b>Testing Date</b>	<b>N Tested</b>	
<b>DF-02</b> 	Direct spilled oil away from a location to be protected or to change the course of the slick.	500 ft protected water boom 3 marine anchor system 1 shoreline anchor system	2 shore responders 2 response boats 6 boat responders	Tend through tidal changes. Deploy boom as depicted to deflect incoming oil away from sensitive areas. Anchor every 200-300'. Deploy shoreside anchor first.
		<b>Testing Date</b>	<b>N Tested</b>	
<b>FO-03</b> 	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.
		<b>N/A Testing Date</b>	<b>Tested</b>	
<b>SR-04</b> 	Remove spilled oil that has been diverted to a designated recovery site accessible from shore	2 skimming system 2 storage tank or bladder 2 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.
		<b>N/A Testing Date</b>	<b>Tested</b>	



## Geographic Response Strategy

North Annisquam River NS13A

### Local contacts

Gloucester Fire Department	<a href="tel:978-281-9760">978-281-9760</a>
Gloucester Harbormaster	<a href="tel:978-282-3012">978-282-3012</a>
Gloucester DPW	<a href="tel:978-281-9785">978-281-9785</a>
Gloucester Shellfish Constable	<a href="tel:978-281-9781">978-281-9781</a>
Mass Bays Estuary Assn	<a href="tel:978-374-0519">978-374-0519</a>
USCG Station Gloucester	<a href="tel:978-283-0705">978-283-0705</a>
Mass Division of Marine Fisheries	<a href="tel:617-626-1520">617-626-1520</a>
Environmental Police	<a href="tel:800-632-8075">800-632-8075</a>



*Entrance to Jones River looking west at low tide (26 June 2009 photo)*

### Resources Protected

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



*Wingaersheek Beach looking north at low tide (26 June 2009 photo)*

### Special Considerations & Navigational Hazards

DF-02: Consider exclusion strategy at Lobster Cove and Goose Cove if equipment is available. High currents at Goose Cove require boom to be placed at distance from entrance. Tide range 7-11 ft. Max currents range from .5 to 3 kts except entrance to Goose Cove where max currents can exceed 5 kts. Vessel operators should have local knowledge.

## Tactics Legend

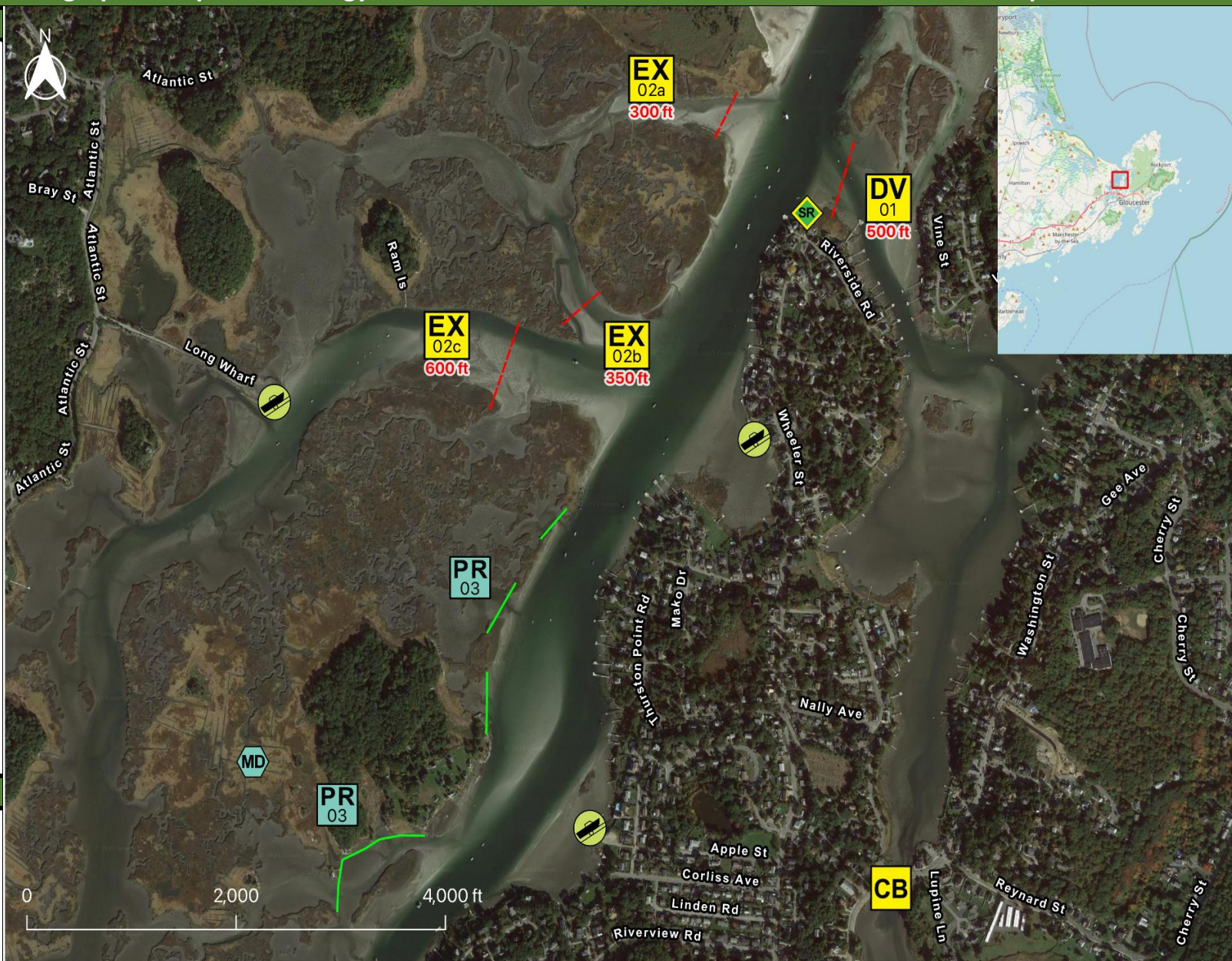
- DF** Deflection Booming
- DV** Diversion Booming
- EX** Exclusion Booming
- FO** Free Oil Recovery
- PR** Passive Recovery
- SR** Shoreside Recovery
- S** Staging Area
-  Boat Ramp
- BB** Beach Berm
- TG** Tide Gate
-  Protected-Water Boom
-  Open-Water Boom
-  Snare/ Sorbent Boom

## Equipment - All Tactics

Boom(ft)	1750
Marine anchors	10
Shore anchors	8
Sorbent Boom(ft)	1900
FO Recovery Sys	0
Shore Responders	2
Boat Responders	3
Boats	2

## Version

2/15/2023



## Response Trailer, Tactics Deployment, and Responder Safety Information

A total of **2** state response trailers are required to implement all the tactics in this GRS.

Responders should always consider on-scene conditions before deploying GRP tactics.

Tactics may not be safe or effective under certain conditions.

Responder safety should always be the first priority.

## Location

**Latitude:** 42°38'23" N









**Longitude:** 70°41'4" W

**NOAA Chart #** 13281



# Geographic Response Strategy

North Annisquam River NS13B

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
<b>DV-01</b> 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	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 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	
<b>EX-02a</b> 	Prohibit oil slicks from entering a sensitive area	300 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.
		N/A Testing Date	N Tested	
<b>EX-02b</b> 	Prohibit oil slicks from entering a sensitive area	350 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.
		N/A Testing Date	N Tested	
<b>EX-02c</b> 	Prohibit oil slicks from entering a sensitive area	600 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	
<b>PR-03</b> 	Remove spilled oil by collecting it in a sorbent material	1000 ft sorbent boom 1000 ft sorbent pom-poms 29 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	
<b>PR-03</b> 	Remove spilled oil by collecting it in a sorbent material	900 ft sorbent boom 900 ft sorbent pom-poms 26 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	
<b>CB-04</b> 	Prevent oil that has entered drainage systems from impacting waterways and sensitive areas	1 inflatable plug, sand bag, or plywood	2 shore responders	At low tide 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.
		N/A Testing Date	Tested	
<b>SR-05</b> 	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

North Annisquam River NS13B

### Local contacts

Gloucester Fire Department	<a href="tel:978-281-9760">978-281-9760</a>
Gloucester Harbormaster	<a href="tel:978-282-3012">978-282-3012</a>
Gloucester DPW	<a href="tel:978-281-9785">978-281-9785</a>
Gloucester Shellfish Constable	<a href="tel:978-281-9781">978-281-9781</a>
Mass Bays Estuary Assn	<a href="tel:978-374-0519">978-374-0519</a>
USCG Station Gloucester	<a href="tel:978-283-0705">978-283-0705</a>
Mass Division of Marine Fisheries	<a href="tel:617-626-1520">617-626-1520</a>
Environmental Police	<a href="tel:800-632-8075">800-632-8075</a>



*Entrance to Jones River looking west at low tide (26 June 2009 photo)*

### Resources Protected

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



*Wingaersheek Beach looking north at low tide (26 June 2009 photo)*

### Special Considerations & Navigational Hazards

Tide range 7-11 ft. Max currents range from .5 to 3 kts except entrance to Goose Cove where max currents can exceed 5 kts. Vessel operators should have local knowledge.