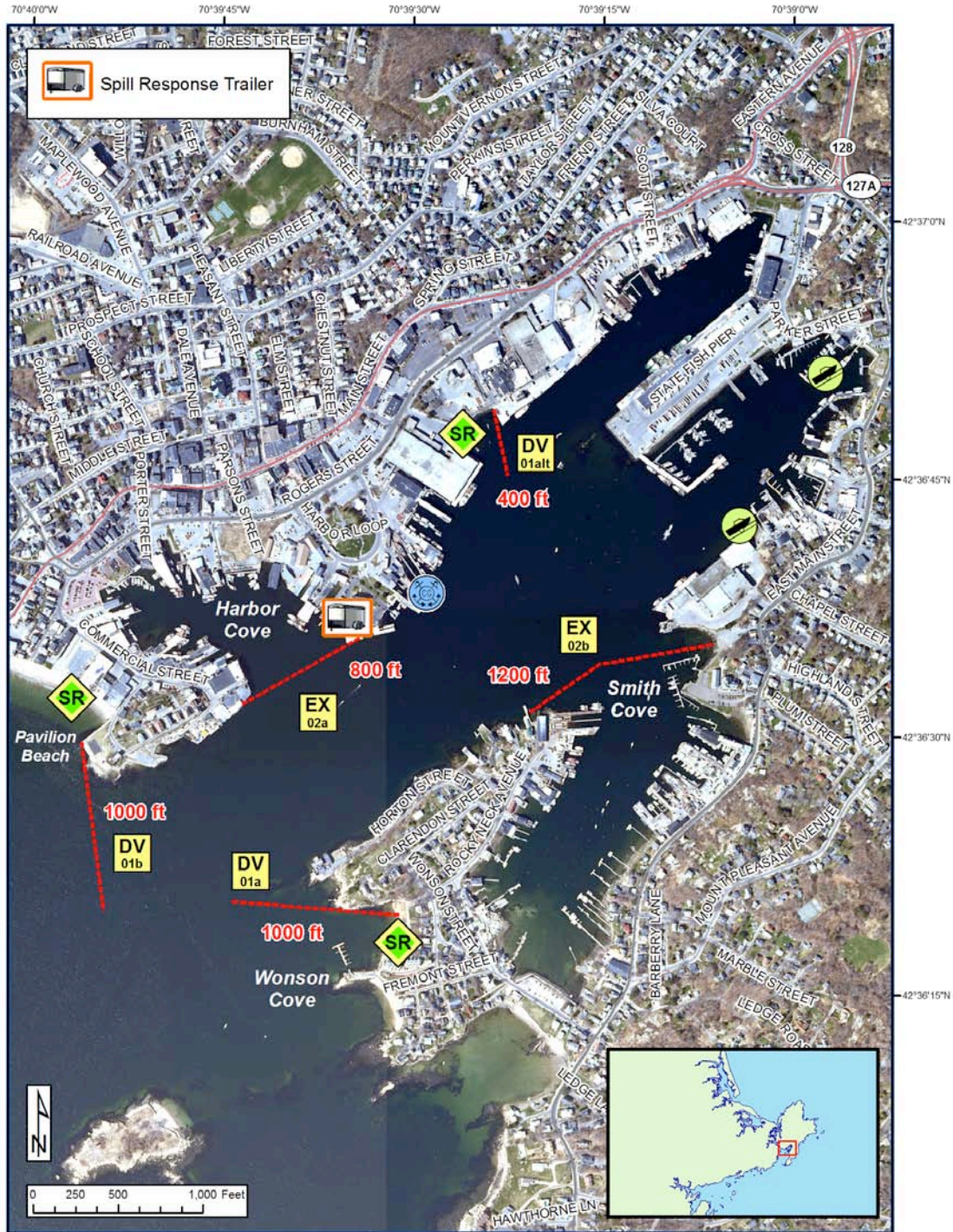




# North Shore Geographic Response Plan Gloucester Inner Harbor NS-18



Map Legend		
<b>BB</b> Beach Berm	<b>DF</b> Deflection Booming	<b>MD</b> Mosquito Ditch
<b>CB</b> Culvert Block	<b>EX</b> Exclusion Booming	U.S. Coast Guard Station
<b>DV</b> Diversion Booming	<b>SR</b> Shoreside Recovery	Boat Ramp
<b>PR</b> Passive Recovery	<b>FO</b> Free-oil Recovery	Protected-water Boom (Flood Tide)
	Snare or Sorbent Boom	Protected-water Boom (Ebb Tide)
		Beach Berm Material




A total of 4 State Response Trailers are required to implement all of the tactics in this GRP. 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.





# North Shore Geographic Response Plan

## Gloucester Inner Harbor NS-18




ID	Location and Description	Response Strategy	Implementation
NS-18-01 	<b>Gloucester Inner Harbor</b> (a) Wonson Cove Lat. 42°36'20"N Lon. 70°39'39"W  (b) Pavilion Beach Lat. 42°36'24"N Lon. 70°39'55"W  (alt) Inner Harbor Lat. 42°36'46"N Lon. 70°39'22"W	<b>Divert and Collect - Shoreside</b> Place and anchor sections of protected water boom at the proper angle to the current to divert the oil to the identified shoreside collection locations.	Deploy anchors and boom with skiffs.  For (a) & (b) place 1,000 ft of 18" boom angled as shown in the diagram to divert incoming oil to the collection sites at Wonson Beach and Pavilion Beach. Set anchors every 200 ft.  For (alt) place one 400 ft length of 18" boom angled as shown in the diagram to divert oil to the identified collection site in the inner harbor. Set anchors every 200 ft.  Tend throughout the tide.
NS-18-02 	<b>Jones River</b> (a) Harbor Cove Lat. 42°36'34"N Lon. 70°39'39"W  (b) Smith Cove Lat. 42°36'33"N Lon. 70°39'13"W	<b>Exclusion</b> Exclude oil from entering Harbor Cove and Smith Cove to minimize the area of impact.	Deploy anchors and boom with skiffs at high tide.  For (a) place 800 ft of 18" boom directly across the entrance to Harbor Cove. The boom attachment must be able to rise/fall with the tide to maintain a seal. Set anchors every 200 ft.  For (b) place 1,200 ft of 18" boom in a slight chevron shape across the entrance to Smith Cove. Site access on the eastern end of the array can be set up for shoreside recovery. Anchors should be set every 200 ft.  Both (a) & (b) can be used to contain an oil spill that originates within the cove.  Tend throughout the tide.
NS-18-03 	<b>Various Locations</b>	<b>Free-Oil Recovery</b> Maximize free-oil recovery in the offshore & near shore environment depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the port area.  Use aerial surveillance to locate incoming slicks.  Ensure that responders have experience with on-water free-oil recovery.  Stay in main channels during low tide.





# North Shore Geographic Response Plan

Gloucester Inner Harbor NS-18

ID	Response Resources	Staging Area Site Access	Resources Protected	Special Considerations
NS-18-01  	<b>Deployment</b> <b>Equipment (Both sites, excluding alt)</b> 2000 ft 18" boom 10 anchor systems 2 anchor stakes 2 shoreside recovery systems <b>Vessels</b> 2 skiffs <b>Personnel/Shift</b> 8 total (1 vessel operator + 1 responder per vessel, 8 shoreside responders) <b>Tending</b> <b>Vessels</b> 1 skiff <b>Personnel/Shift</b> 4 total (1 vessel operator + 1 responder per vessel, 2 shoreside responders)	<b>Staging Area:</b> Gloucester Fire Station, 8 School St; Rt 128, to Washington St, to Pine St, to School St.  <b>Site Access:</b> (a) From Rt 127A/Cross St to E Main St to Wonson St to Wonson Cove (b) From Rt 127/Rogers St to Commercial St to Pavilion Beach. (alt) Off of Rt 127/Roger St to the Inner Harbor Seawall  Chart 13281-1	<b>Birds</b> – Shorebirds, Nesting Sites  <b>Habitat</b> – Rocky Shore, Beach, Tidal Flats  <b>Human Use</b> – Beach, Marina, Recreational Fishing, Port/Harbor, Coast Guard	Tide range 7 – 11 ft.  Vessel master should have local knowledge.  Large number of commercial and recreational vessels. Broadcast any channel closures on Notice to Mariners.  Developed shoreline with riprap, pier pilings, docks and floats.  Moored vessels may need to be moved.  Entire site surveyed: 06/26/09.  Tested: not yet.
NS-18-02  	<b>Deployment</b> <b>Equipment</b> 2000 ft 18" boom 8 anchor systems 4 anchor stakes <b>Vessels</b> 2 skiffs <b>Personnel/Shift</b> 8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders) <b>Tending</b> <b>Vessels</b> 1 skiff <b>Personnel/Shift</b> 4 total (1 vessel operator + 1 responder per vessel, 2 shoreside responders)	<b>Site Access:</b> (a) From Rt 127/Rogers St to Harbor Loop. (b) From Rt 127A/Cross St to E Main St to Pirates Lane.	Same as NS-18-01.	Oil spill originating from local source can be contained against the shoreline using exclusion boom and passive recovery techniques.
NS-18-03  	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	<b>Site Access:</b> Vessel Platform  Via marine waters.  Chart 13281-1	Same as NS-18-01.	Vessel master should have local knowledge.





### Site Photographs and Contact Information



Pavilion Beach collection site at low tide on 26 June 2009. View looks northwest.



Entrance to Gloucester Inner Harbor. MassDEP, 09 April 2009.



Bulkhead at entrance to Harbor Cove at low tide on 26 June 2009. View looks south.



Smith Cove. MassDEP, 09 April 2009.



Site access at Smith Cove at low tide on 26 June 2009. View looks east.

#### **Contact Information:**

Gloucester Fire Department: 978-281-9760  
Gloucester Harbormaster: 978-282-3012  
Gloucester Shellfish Constable: 978-281-9781  
Mass Bays Estuary Assn: 978-3740519  
U.S.C.G. Station Gloucester: 978-283-0705  
Mass Division of Marine Fisheries: 617-626-1520  
Environmental Police: 800-632-8075

