



# South Shore Geographic Response Plan

## Green Harbor SS-08



Map Legend			
<b>BB</b> Beach Berm	<b>DF</b> Deflection Booming	<b>TG</b> Tide Gate	
<b>CB</b> Culvert Block	<b>EX</b> Exclusion Booming	Boat Ramp	
<b>DV</b> Diversion Booming	<b>SR</b> Shoreside Recovery	Beach Berm Material	Protected-water Boom (Flood Tide)
<b>PR</b> Passive Recovery	<b>FO</b> Free-oil Recovery	GRP Trailer Locations	Snare or Sorbent Boom





A total of 1 State Response Trailer is 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. The strategies contained within this plan have been designed to mitigate a potential off-shore or off-site release that could impact the subject plan area. When responding to other types of spills these tactics will likely require significant modification.





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ID	Location and Description	Response Strategy	Implementation
SS-08-01  	<b>Entrance to Green Harbor</b> Lat. 42° 4'42.65"N Lon. 70°38'40.91"W	<b>Divert &amp; Collect</b> On a flooding tide, divert oil to shoreside collection points.	Deploy a 600ft segment of boom across the mouth of Green Harbor at a steep angle. Shoreside recovery may be established on the fine sand beach along E Street and Water Street.  Shoreside recovery may be difficult from this location.  Deploy anchors every 200ft and tend throughout the tide.
SS-08-02  	<b>Beach Street</b> Lat. 42° 4'49.65"N Lon. 70°38'51.78"W	<b>Exclusion Booming</b> Exclude oil from entering the marsh behind Beach Street.	Deploy 250ft boom across the entrance to the marsh located behind Beach Street.  Tend throughout the tidal cycle.
SS-08-03  	<b>Green Harbor</b>	<b>Free-Oil Recovery</b> Maximize free-oil recovery in the offshore & nearshore environment of Green Harbor depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the area. Use aerial surveillance to locate incoming slicks. Ensure that responders have experience with on-water free-oil recovery.
SS-08  	<b>Dyke Road</b> Lat. 42° 5'10.87"N Lon. 70°39'2.45"W  <b>Town Pier Road (2 gates)</b> Lat. 42° 5'21.07"N Lon. 70°38'40.55"W  Lat. 42° 5'23.14"N Lon. 70°38'42.45"W	<b>Tide Gate</b> There are 3 tide gates located in Green Harbor. Contact the Department of Public Works to close the gate.	Tide gates act as a very effective exclusion tactic. If needed, deploy hard boom or sorbent material around the entrance to the tide gate to ensure a proper seal.  The tide gate on Dyke Road is very large (as shown in photo on page 4). The two gates located on Town Pier Road are smaller and are manually opened and closed.  The tide gates may take a few hours to close.





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ID	Response Resources	Staging Area Site Access	Resources Protected	Special Considerations
SS-08-01 	<b>Deployment</b> <b>Equipment</b> 600 ft 18” boom 2 anchor systems 2 anchor stakes 1 shoreside recovery system <b>Vessels</b> 2 skiffs <b>Personnel/Shift</b> 6-8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders) <b>Tending</b> <b>Vessels</b> 1 skiff <b>Personnel/Shift</b> 3-4 total (1 vessel operator + 1 responder per vessel, 2 shoreside responders)	To boat ramp on Town Pier Road: From Rt 3A, turn onto Careswell St. Continue on to Dyke Rd and turn on right on Town Pier Rd.  NOAA Chart 13253	<b>Marine Mammals</b> – Harbor Seals  <b>Invertebrates</b> – Shellfish  <b>Birds</b> – Seabirds  <b>Human Use</b> – Boat Ramp, Marina, Recreational Fishing  <b>Habitat</b> - Beach, Marsh, Rocky, Riprap	Vessel master should have local knowledge.  Consider the time of year and relative presence of recreational boats when preparing to implement these strategies. Consult with the local harbor master to develop a plan to address the presence of recreational boaters. Consider encouraging the immediate removal of recreational boats from target areas in the event of a spill if time allows.  Spills may originate from the bridges in the harbor.  Tested: not yet
SS-08-02 	<b>Deployment</b> <b>Equipment</b> 250 ft 18” boom 2 anchor stakes <b>Vessels</b> 2 skiffs <b>Personnel/Shift</b> 6-8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders) <b>Tending</b> <i>Same as SS-08-01</i>	Same as SS-08-01	Same as SS-08-01	Same as SS-08-01
SS-08-03 	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Same as SS-08-01	Same as SS-08-01	Vessel master should have local knowledge. Free-oil recovery should only be attempted if conditions permit and by experienced responders.
SS-08 	Contact the Department of Public Works to close the tide gates.	Same as SS-08-01	Same as SS-08-01	There is an extensive marsh system and a significant portion of the area is vulnerable to flooding during high tide or storm surge. For this reason, the tide gates in place play an important role in spill response and storm surge events.





**Site Photographs and Contact Information**



View looking north towards the entrance to Green Harbor. (DV-01)



View looking southwest towards the entrance to the marsh behind Beach Street. (EX-02)



Boat ramp located on Town Pier Road.



View looking west towards tide gate on Dyke Road.



Tide gate located on Dyke Road.

**Contacts:**

Marshfield Conservation Commission: 781-834-5573  
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Marshfield Emergency Management Agency: 781-837-7100  
Marshfield Fire Dept: 781-837-1315  
Marshfield Harbormaster: 781-834-5541  
Mass. Dept of Environmental Protection (24 Hours):  
888-304-1133  
U.S. Coast Guard (24 Hours): 617-223-5750

