






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

A total of 5 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.










ID	Location and Description	Response Strategy	Implementation
BB-23-01 	Wareham River System a) Swifts Beach – Lat. 41°44'16"N Lon. 70°43'02"W b) Long Beach Point – Lat. 41°44'17"N Lon. 70°42'28"W c) Nobska Point – Lat. 41°43'41"N Lon. 70°43'17"W d) Long Beach – Lat. 41°43'50"N Lon. 70°42'28"W	Divert and Collect – Shoreside For sites a & b: Set open chevron with protected water boom to protect main harbor entrance and divert oil to collection sites. For sites c & d: Place and anchor sections of boom in a cascaded fashion to divert the oil to the identified shoreside collection location.	Deploy anchors and boom with skiffs. For a) place 800 ft of 18” boom from Swifts Beach in S’ly direction. For b) place 800 ft of 18” boom from point on eastern shore in a SW direction to green can “15” to create an open chevron. Set up shoreside recovery unit at Swifts Beach and passive recovery on eastern shore. Place anchors every 200 ft. For c & d) at each site place 6x200 ft sections of 18” boom in a cascaded fashion to divert incoming oil to the collection sites. Set up shoreside recovery and place passive recovery at collection points. Tend throughout the tide.
BB-23-02 	Wareham River System a) Broad Marsh River – Lat. 41°44'43"N Lon. 70°42'36"W b) Crooked River – Lat. 41°44'24"N Lon. 70°42'14"W	Exclusion Use sections of 18” boom to exclude oil from entering tributary inlets.	Boom can be deployed by skiff and from shore. For a) set 300 ft of 18” boom between locations shown in diagram. Use anchor stakes and one anchor set. For b) set 500 ft of 18” boom between locations shown in diagram. Use anchor stakes and two anchor sets.
BB-23-03 	Wareham River System a) Swifts Beach – Lat. 41°44'16"N Lon. 70°43'02"W b) Edgewater Dr – Lat. 41°43'44"N Lon. 70°42'21"W c) Long Beach – Lat. 41°43'53"N Lon. 70°42'32"W	Beach Berms Three small coastal inlets; two at Long Beach and one at Swifts Beach. Build beach berms or use exclusion boom to prevent oil from entering inlets.	Build beach berms approximately 90 ft long. Use local beach and inter-tidal bar sediments. If the berms are expected to remain in place for more than a few days, place a 20’x12” pipe in each channel and build the berms on top of the pipes. Use a culvert plug to control water flow through the pipe.
BB-23-04 	Wareham River System Various locations	Passive Recovery Place passive recovery along front of marshes to prevent oil from entering sensitive areas.	Place snare or sorbent boom along marsh front to minimize damage and facilitate recovery. Replace as necessary to maximize the recovery.
BB-23-05 	Wareham River System Nearshore waters in the general area of: Lat. 41°43'00"N Lon. 70°42'30"W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Wareham River System depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Harbor. Use aerial surveillance to locate incoming slicks.





ID	Response Resources	Staging Area Site Access	Resources Protected	Special Considerations
BB-23-01 	Deployment Equipment 4000 ft. 18" boom 32 anchor sets 4 anchor stakes 2200 ft. snare or sorbent boom 4 shoreside recovery systems Vessels 2 skiffs Personnel/Shift 8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders) Tending Vessels 2 skiffs Personnel/Shift 8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders)	Staging Area: Rt 25 exit 1, Wareham Park and Ride. Site Access Rt 6 to Swifts Beach Rd. For c) Rt 6 to Cromeset Rd to Nobska Way For d) Rt 6 to Indian Neck Rd to Long Beach Rd. Chart 13236-1	Fish-shellfish, finfish Birds-waterfowl concentration; Piping Plover (state/federally threatened) Reptile-Diamondback Terrapin (state threatened) Habitat-marsh, sheltered tidal-flats, barrier beach, eel grass beds, sand beaches Human use- mooring fields, shellfish lease area, several private docks, 2 boat yards, private and public beaches	Vessel master should have local knowledge. The currents can exceed 2 kts in main channel. Moored vessels may need to be moved. To implement c & d, minimum current expected. Use small boats or landing craft when operating near Swifts Beach site, due to shallow water at low tide. Entire site surveyed: 01/02/08. Tested: 10/27/09
BB-23-02 	Deployment Equipment 800 ft. 18" boom 3 anchor sets 4 anchor stakes Vessels 1 skiff Personnel/Shift 4 total (1 vessel operator + 1 responder per vessel, 2 shoreside responders)	Staging Area: Rt 25 exit 1, Wareham Park and Ride. Site Access: a) Rt 6 to Swifts Beach Rd to Shore Ave to Pilgram Ave to Algelo Ave b) Rt 6 to Indian Neck Rd to Parkwood Dr Chart 13236-1	Same as BB-23-01.	Same as BB-23-01.
BB-23-03 	Deployment Equipment (per site) Local beach material 1 pipe (20"x12") 1 culvert plug 24 sand bags 2 spade shovels 1 air pump Vehicle 1 tractor with front end loader Personnel/Shift 2 shoreside responders	Staging Area: Same as BB-23-01. Site Access: a) Rt 6 to Swifts Beach Rd. b) Rt 6 to Indian Neck Rd to Edgewater Dr. c) Rt 6 to Indian Neck Rd to Long Beach Rd. Chart 13236	Birds-waterfowl concentration Habitat-coastal pond and marsh system	Coordinate with DPW. If berms are to remain in place for more than a few days, construct underflow dam. Monitor for incoming oil. Emergency permit from DEP required.
BB-23-04 	To be determined at time of incident	Same as BB-23-01.	Same as BB-23-01.	Use snare boom for persistent oils and sorbent boom for non-persistent oils.
BB-23-05 	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Vessel Platform Via marine waters. Chart 13236-1	Same as BB-23-01.	Vessel master should have local knowledge.





Site Photographs and Contact Information



Middle of Wareham River System looking northeast at low tide on 29 May 2004. RPI photo



Swifts Beach on 31 May 2004. View looks east at mid tide. RPI photo



View of northern shore of Wareham River system on 29 May 2004. RPI photo

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