

LEGEND			
	Boat Ramp		DF Deflection Booming
	CB Culvert Block		DV Diversion Booming
	DAM Dam		EX Exclusion Booming
	PR Passive Recovery		Protected-water Boom
	SR Shoreside Recovery		S Staging Area
	Railroad		Water Treatment Facility





1,300 ft. of boom and associated equipment 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.





Kennebec River Geographic Response Plan
Waterville KR-02



ID	Location and Description	Response Strategy	Implementation
KR-02-01 	Waterville Kennebec/Messalonskee Trails Parking Area Lat. 44° 34.363'N Lon. 69° 36.647'W	Divert and Collect – Shoreside Position boom in the identified configuration to intercept oil before it migrates further downriver (towards Lowell) and divert oil to riverbank for recovery. Consider source location and river flow patterns when selecting tactics and deployment strategies. Adjust the angle and length of boom depending on oil trajectory, river flow rate, and wind.	Deploy 1,200 ft. of 12” – 18” boom in a cascade array (4-300 ft sections) at the proper angle to divert incoming oil to the collection site. Set up shoreside recovery systems. Deploy passive recovery using sorbents at collection point to minimize leakage. Adjust the angle and length of boom and the shoreside collection site depending on oil trajectory. When implementing the Diversion tactic, responders must ensure that skimming systems and temporary oil storage devices are available to implement the shoreside recovery tactic. Tend as necessary based on river flow conditions.
KR-02-02 	Waterville Waterville Dam Lat. 44° 33.810'N Lon. 69° 37.096'W	Exclusion Set boom across entrance to fish ways, fish ladders, creeks, inlets, coves and near water treatment facilities to prevent oil from migrating into sensitive areas and critical infrastructure.	Deploy 100 ft of 10” – 12” boom in the identified pattern to prevent oil from entering fish way on east side of dam. Secure at suitable fixed points along dam infrastructure on shore and anchor at apex. Deploy passive recovery using sorbents at attachment points to minimize leakage. Tend as necessary based on river flow conditions.
KR-02-03 	Waterville Pan Am Railways Lat. 44° 34.028'N Lon. 69° 36.954'W	Culvert Blocking Place culvert block and/or set exclusion boom to prevent oil from land-based spills in railyard from entering the river.	Install culvert block or set up exclusion boom at low tide. If inflatable plugs are not available, place plywood or similar sheeting material across the entrance of the culvert. Use plastic sheeting to ensure the seal. Stack adequate sandbags against the plywood sheeting to counter the out flow pressure. Monitor the block to ensure blocking integrity..
KR-02 	Same as KR-02-01	Shoreside Recovery - Remove spilled oil that has been diverted to the designated recovery site accessible from shore.	Deploy skimming system(s) appropriate for the operating environment and temporary oil storage system in designated location. Oil spill contractor resources will be required to implement Shoreside Recovery tactics.









Kennebec River Geographic Response Plan

Waterville KR-02



ID	Response Resources	Staging Area Site Access	Resources Protected	Special Considerations
KR-02-01 	Deployment Equipment (All sites) 1,200 ft 12” – 18” boom 6 anchor systems 4 anchor stakes (doubled at each shoreside anchor point) 1 shoreside recovery systems Vessels 2 skiffs Personnel/Shift 8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders) Tending Vessels 1 skiff Personnel/Shift 4 total (1 vessel operator + 1 responder per vessel, 2 shoreside responders)	Kennebec/Messalonskee Trails Parking Area, Winslow, ME.	Fish/ Birds -Atlantic Salmon, Wild Brook Trout Threatened/Endangered Species -Threatened Species Habitat, Rare Plants Cultural -Historical/Archaeological Sites Habitat - Sand & Gravel Aquifers, Wetlands, Man-Made Structures Human use - Boat Ramp, Infrastructure, Lock & Dam, Park	River conditions including flow rate and water depth vary depending on time of year and heavy rain and/or snowfall. Survey site prior to deployment and modify deployment tactics and techniques as appropriate based on observed river conditions. If ice is present GRP tactics and strategies must be reevaluated. Vessel operators should have local knowledge and experience operating in riverine environments.. Site surveyed: 04/12/16. Field tested: not yet.
KR-02-02 	Deployment Equipment (All sites) 100 ft 12” – 18” boom 1 anchor systems 4 anchor stakes (doubled at each shoreside anchor point) 300 ft of snare or sorbent boom Vessels/Personnel Same as KR-02-01.	Brookfield Energy/Waterville Dam, - 51 Simpson Ave, Winslow, ME	Same as KR-02-01	Same as KR-02-01. Exercise caution when operating close to dam.
KR-02-03 	Deployment (Per Culvert) Transport 1 Truck Equipment 1 inflatable culvert block or 1 sheet of plywood 50-100 sandbags 1 polyethylene sheeting Personnel/Shift 4 shoreside responders	Pan Am Railways – 55 College Ave., Waterville, ME 04901	Same as KR-02-01	Coordinate with ME DEP. Culvert blocks should be tested and stored at appropriate location. Field tested: not yet.
KR-02 	Deployment Equipment (All sites) 1 shoreside recovery system Vehicles 1 truck or truck with trailer Personnel/Shift* 2-5 shoreside responders (depending on recovery system and hours of operation)	Same as KR-02-01	Same as KR-02-01	Same as KR-02-01





Site Photographs and Contact Information



View upriver from Waterville Dam.



Existing boom positioned at dam intake on east side of river near location of EX-02.



Access road to Kennebec/Messalonskee Trails parking area north of the Waterville Dam.



River obstructions in the vicinity of DV-01.

Contact Information:

- Waterville Fire Department: 207-680-4735
- Waterville Emergency Management: 978-250-5280
- Waterville Water/Sewer Department: 207-475-5353
- Pan Am Railways: 1-207-873-6921
- Brookfield Energy: 1-508-251-7747 (24 hr)
- Maine DEP (Oil Spill): 800-482-0777
- Maine DEP (HazMat Spill): 800-452-4664
- Maine Dept of Inland Fisheries & Wildlife (Augusta): 800-452-4664
- Maine Dept. of Marine Resources: 207-941-4449
- Maine Drinking Water Program: 207-557-4214
- Maine Historic Preservation Commission: 207-287-2132
- National Response Center: 800-424-8802

Kennebec and Penobscot River GRPs have been incorporated into EPA Region One’s Inland Area Contingency Plan (ACP) and is available at the following website: https://nrtqa.ert.org/site/doc_list.aspx?site_id=38 or accessed via QR reader-enabled smartphones by scanning the QR code at right.

