

Berks County PA Geographic Response Plan Development & Exercise

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Presentation Outline

- GRP Development
- Responder Training
- GRP Exercise
- Lessons Learned



O Diversion

Protection Strategy:

Collection	O Deflection
O Exclusion	O Other

Boom Length (feet):

1-3			

Boom Size (inches):



Anchor Strategy:

O Yes

Land Access:		
O Yes	O No	
Boat Access:		

O No

Mile Marker

Where available.

Vessel Recommendations:



Personnel Recommendations:



Boom Location:

Draw boom using map and draw tools at lower left corner.















EPA Sch	EPA Schuylkill River Geographic Response Plan – Heritage Park Schuylkill River SKR-CP-03						
Tactic #	Purpose	Response Equipment		Deplo	oyment Resources	Deployment Notes	
DV-01	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	6) ft protected water boom 6 marine anchor system 2 shoreline anchor system	4 shore responders 2 response boats 2 boat operators 2 boat crew (min)		Anchor Type: Danforth 14, Shoreline anchor points. Strategy: Deploy boom as depicted to divert incoming oil to the collection site. Deploy shoreside anchor first. Single anchor system (rebar or U- posts) along shoreline with standard deployment into riverbed. For western portion, utilize 6" skirt boom due to shallow water depth for 200'.	
		N/A	Testing Date	N	Tested	Utilize 12" skirt boom remainder. Anchor every 100' section on either end. Anchor shore side recovery skirt boom every 100'. Adjust configuration as necessary to reduce entrainment.	
SR-01	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		shore responders	Strategy: Set up shoreside recovery tactic at general location depicted on map. Parking area as indicated on map may be suitable for storage tanl and equipment storage. Consideration for boat trailer/vehicle parking and tanker truck traffic is required.	
		N/A	Testing Date	N/A	Tested	·	

EPA Schuylkill River Geographic Response Plan

Control Point Information

Schuylkill River SKR-CP-

NRC Hotline: 800-424-8802

Address to Boat Launch: 601 Canal St, Reading, PA 19602

Protection Description: The strategy for this location is to anchor a boom along shoreline (tree) to capture oil in slack areas. Staging area for all protection strategies available as boat ramp large enough to deploy assets.

Resources Protected		
Fish	Catfish, Perch, Sunfish, Carp, and Bass.	
Birds	Duck, Goose, Woodpecker, Hummingbird, Swallow, Jay, Robin, and various other species.	
Threat/End. Species	Monarch butterfly, Tricolored bat, Little brown bat, Bald Eagle, Indiana bat, Northern long-eared bat, and Bog Turtle. No critical habitats found.	
Cultural/Historical Resources	No available data.	
Human Use	Boat Ramp, Conservation Area, Infrastructure, Groundwater Source, Recreation.	
Land Management	The city of Reading	
Riverine	Silty mud/gravel riverbed with gently sloped banks consisting of loose vegetation.	



Small boat launch that can only accommodate hand carry boat/vessels only.

Navigational Hazard



GPS coordinate location for control point boat launch. Access point near Canal Street.



Stormwater outfalls near boat launch access that could serve as potential boom locations. There are also good anchorage points near control point.

Special Considerations

Lake and river conditions such as flow rate and flood stage vary depending on the time of year and heavy rain or snowfall. If ice is present GRP tactics and strategies must be reevaluated. Vessel operators should have local knowledge and experience operating in riverine environments.

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Responder Training

- 3-hour evening session
- 1.5 hours Classroom Booming Training from USCG AST
- 0.5 hours of Classroom Inland Area Oil Spill Case Studies by EPA OSC
- 1 hour of hands-on training with Berks DES equipment including booming trailer, buoys, anchors, waders, etc.



GRP Exercise

At approximately 0800 on September 7, 2024, a derailment involving a 50-car freight train occurred. The derailment occurred on a railroad bridge over the Schuylkill River, heading east.



The incident resulted in a significant conflagration and the potential release of hazardous substances both on land and into the river, posing an acute environmental threat to the Schuylkill River ecosystem and other receptors. Of particular concern were five rail cars carrying a variety of hazardous materials, including waste oil containing polychlorinated biphenyls, vinyl chloride, sulfuric acid, combustible liquids (NOS), isobutylene, ethylhexyl acrylate, and residues from previous storage of benzene and liquefied petroleum gas (LPG).





GRP Exercise





Lessons Learned

Successes

- Attitude of Responders
- Willingness to Adapt to Changing Circumstances
- Safety Focus

Areas of Improvement

- Cross-Organizational Communication
- Insufficient/Inappropriate Equipment

Next Steps:

- Tabletop Exercise to discuss capabilities of response partners and roles
- Focused equipment updates/purchase
- Continued functional and full scale GRP deployment exercises



Questions?