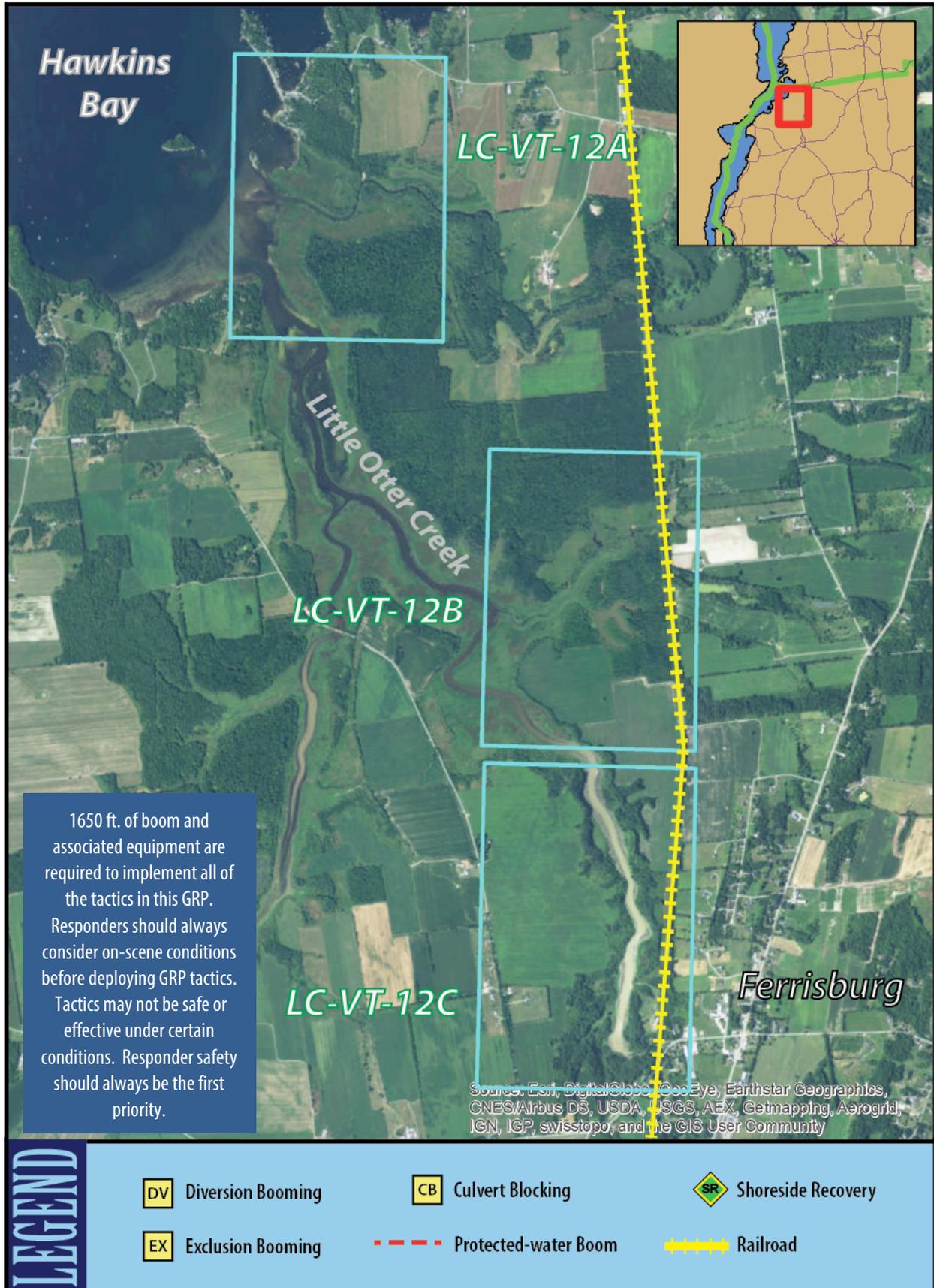
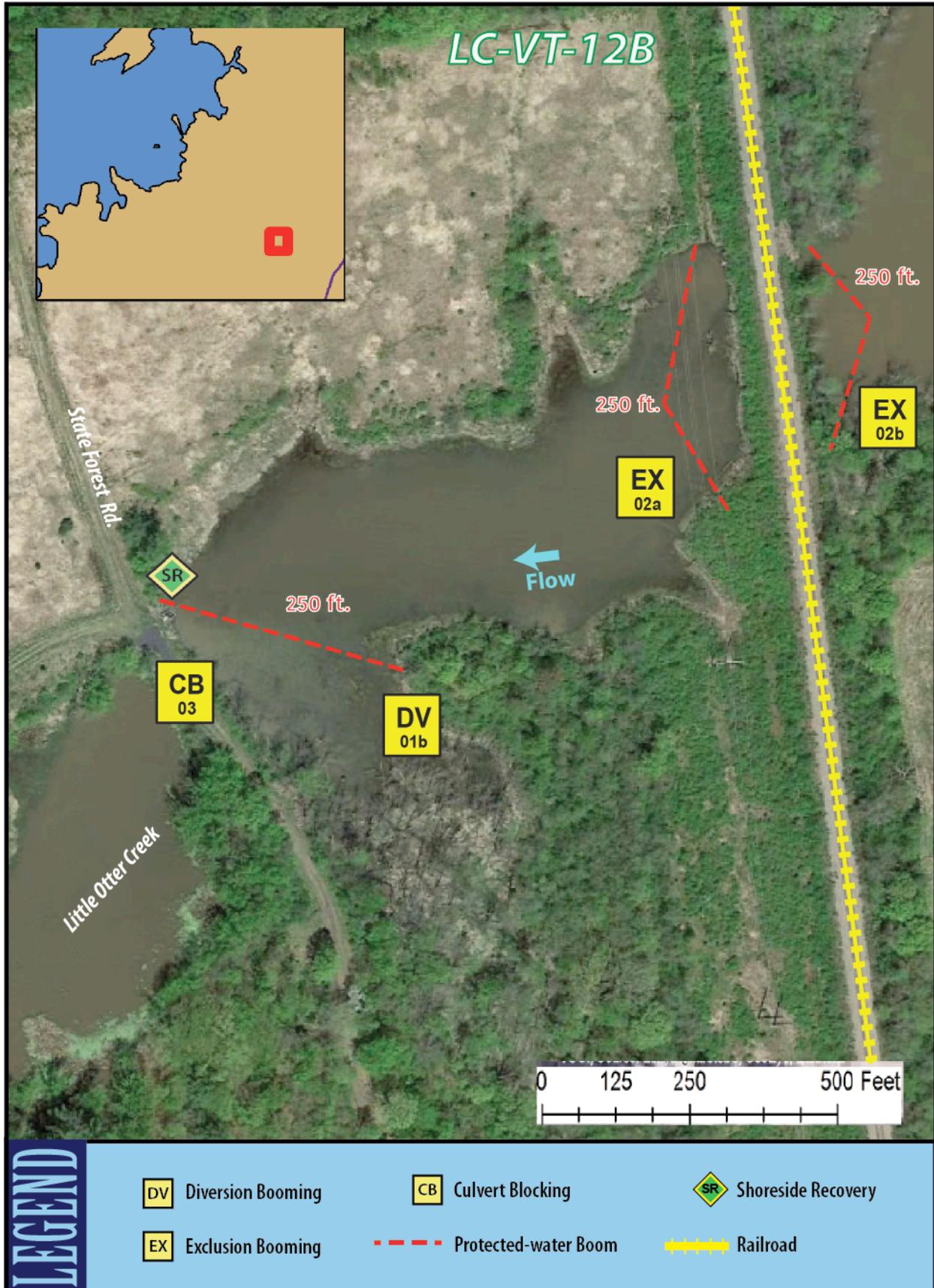


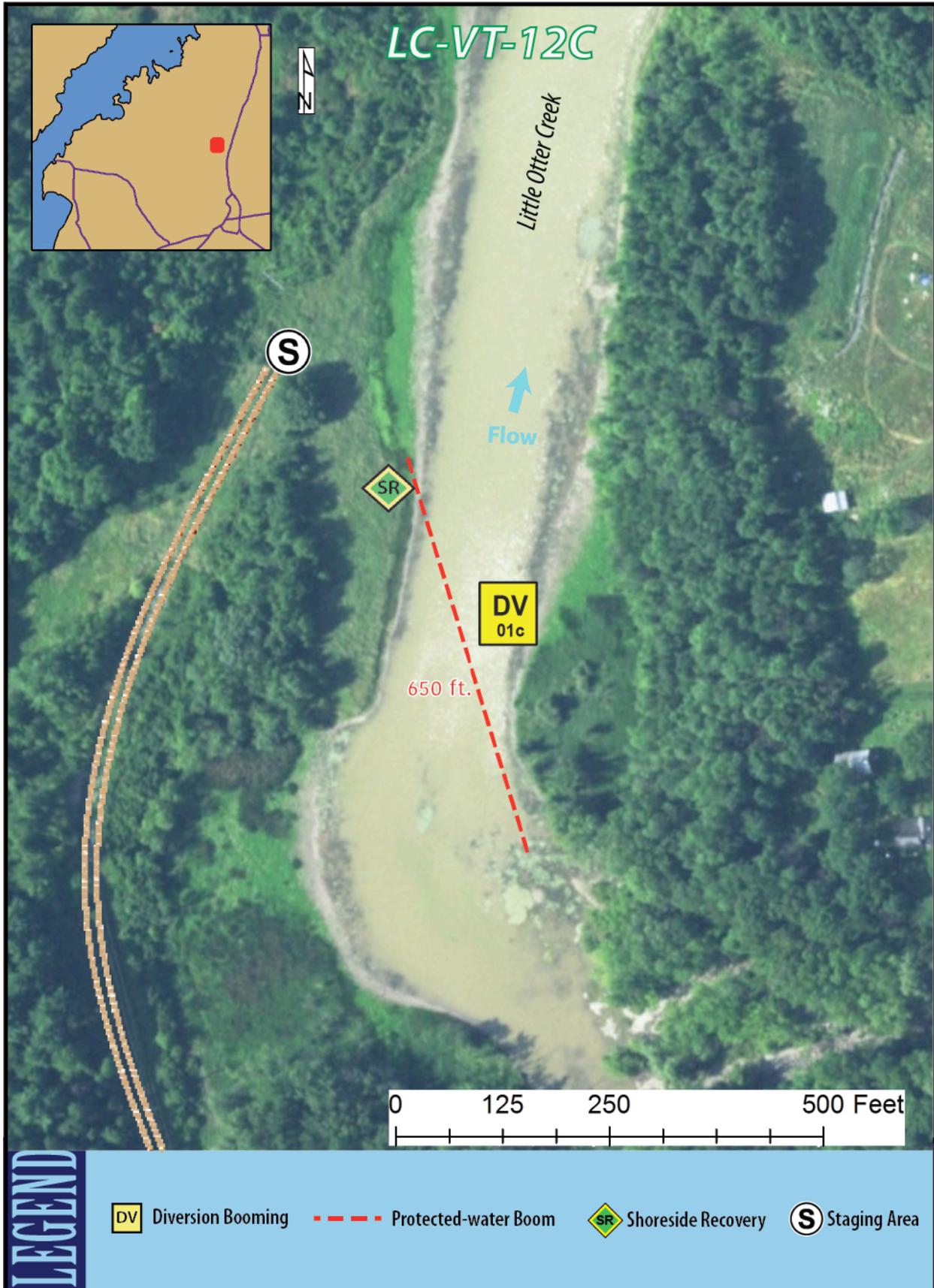


# Lake Champlain Geographic Response Plan Lewis/Little Otter Creek LC-VT-12











**Lake Champlain Geographic Response Plan**  
 Lewis/Little Otter Creek LC-VT-12



ID	Location and Description	Response Strategy	Implementation
<b>LC-12-01</b>  	<b>Hawkins Bay</b> a.) Lewis Creek– Lat. 44°14'54.44"N Lon. 73°16'26.61"W  b.) State Forest Rd. – Lat. 44°13'51.01"N Lon. 73°15'15.66"W  c.) Little Otter Creek – Lat. 44°12'22.43"N Lon. 73°15'18.12"W	<b>Divert and Collect – Shoreside</b>  Divert incoming oil to shoreside recovery locations to protect areas Lewis/Little Otter Creeks, Hawkins Bay, and Lake Champlain.	Deploy anchors and boom with skiffs.  For (a) Deploy 150 ft. of 6” – 12” boom in a single leg at the proper angle to divert incoming oil to the collection site.  For (b) Deploy 250 ft. of 6” – 12” boom in a single leg at the proper angle to divert incoming oil to the collection site.  For (c) Deploy 650 ft. of 6” – 12” boom in a single leg or cascade array (2-300 ft sections) at the proper angle to divert incoming oil to the collection site.
<b>LC-12-02</b>  	<b>Little Otter Creek</b> a.) R/R - West Lat. 44°13'53.53"N Lon. 73°15'10.91"W  b.) R/R - East – Lat. 44°13'53.97"N Lon. 73°15'8.31"W	<b>Exclusion</b>  Set boom across entrances to creeks, inlets, coves and near water treatment facilities to prevent oil from migrating into sensitive areas and critical infrastructure.  Adjust the angle and length of boom depending on oil trajectory, river flow rate, and wind.	For (a) and (b) Deploy 250 ft of 6” – 12” boom as depicted to prevent oil from migrating farther into Little Otter Creek.  Secure with anchor stakes on shore and anchors in midstream. Deploy passive recovery using sorbents at attachment points to minimize leakage.
<b>LC-12-03</b>  	<b>Little Otter Creek</b> Lat. 44°13'50.66"N Lon. 73°15'17.61"W	<b>Culvert Blocking</b>  Place culvert block and/or set exclusion boom to prevent oil from migrating up or downstream into Charcoal Creek and surrounding environment.	Install culvert block or set up exclusion boom. 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..



**Lake Champlain Geographic Response Plan**  
Lewis/Little Otter Creek LC-VT-12



Response Resources	Staging Area Site Access	Resources Protected	Special Considerations	ID
<b>Deployment</b> <b>Equipment</b> 1150 ft. 6"-12" boom 3 anchor sets 12 anchor stakes 1 shoreside recovery system <b>Vessels</b> 1 work boat or skiff <b>Personnel/Shift</b> 2 vessel crew (per vessel)/2 shoreside responders <b>Tending</b> <b>Vessels</b> 1 work boat or skiff <b>Personnel/Shift</b> 2 vessel crew (per vessel)/2 shoreside responders	Staging Area: VT F&W Lewis Creek Fishing Access Area/Boat Ramp  Site Access: VT F&W Lewis Creek Fishing Access Area/Boat Ramp  Via marine waters for deploying and tending boom.  Chart 14783	Threatened/Endangered Species – Rare Species (Includes Vermont's Rare and Uncommon Animals), Rare, Threatened, and Endangered Species Habitat, Species of Special Concern  Cultural Resources- Historical/Archaeological Sites, Native American Tribal Lands  Human use-Boat ramp  Land Management – Conservation Area, State Park	Lake and river conditions including flow rate and flood stage 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. Entire site surveyed: 04/26/17  Field tested: No	<b>LC-12-01</b>  <div style="border: 1px solid black; background-color: yellow; padding: 5px; display: inline-block;"><b>DV</b></div>
<b>Deployment</b> <b>Equipment</b> 500 ft. 6"-12" boom 2 anchor sets 8 anchor stakes <b>Vessels</b> 1 work boat or skiff <b>Personnel/Shift</b> 2 vessel crew (per vessel)/2 shoreside responders <b>Tending</b> <b>Vessels</b> 1 work boat or skiff <b>Personnel/Shift</b> 2 vessel crew (per vessel)/2 shoreside responders	Same as LC-12-01		Same as LC-12-01	<b>LC-12-02</b>  <div style="border: 1px solid black; background-color: yellow; padding: 5px; display: inline-block;"><b>EX</b></div>
<b>Deployment (Per Culvert)</b> <b>Transport</b> 1 Truck <b>Equipment</b> 1 inflatable culvert block or 1 sheet of plywood 50-100 sandbags 1 polyethylene sheeting <b>Personnel/Shift</b> 4 shoreside responders	Same as LC-12-01		Same as LC-12-01	<b>LC-12-03</b>  <div style="border: 1px solid black; background-color: yellow; padding: 5px; display: inline-block;"><b>CB</b></div>



Site Photographs and Contact Information



Aerial view of Hawkins Bay, Lewis and Little Otter Creeks and surrounding area. Rail line on right.



Little Otter Creek at site of DV-01c. Note rail line at right.



Mouth of Lewis Creek at Hawkins Bay. Site of DV-01a at upper right.



Little Otter Creek at site of DV-01b, EX-02, CB-03. Note rail line at right.

**CONTACT INFORMATION:**

- All VT Fire Departments: **Call 911**
- EPA Region 1 Tribal Program: 617-918-1123
- Missisquoi National Wildlife Refuge: 802-868-4781
- National Response Center: 800-424-8802**
- VT Comm. on Native American Affairs: 802-779-7015
- VT DEC (24-Hour): 800-641-5005**
- VT Drinking Water & Groundwater: 802-741-5311
- VT Emergency Mgmt & Homeland Security: 800-347-0488
- VT Fish & Wildlife Dept (Essex): 802-878-1564
- VT Hazmat Response Team: 800-641-5005
- VT Div of Historical Preservation: 802-272-2509

Lake Champlain 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](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.

