

Geographic Response Strategies: Alaska Rivers

GRS Objective:
Provide a strategic plan for responding to oil spills that impact environmental and cultural sensitive rivers from the following potential sources:

1. Pipelines & onshore oil processing facilities
2. Highways with oil & Hazmat truck routes
3. Railroad crossings
4. River barge routes
5. Bulk fuel storage tanks positioned adjacent to rivers



Division of Spill Prevention and Response Prevention and Emergency Response Program

Alaska Department of Environmental Conservation

Geographic Response

Strategies (GRS) are site-specific response plans tailored to protect sensitive areas threatened by an oil spill. GRS are map-based strategies that can save time during the critical first few hours of an oil spill response. They show responders where sensitive areas are located and where to place oil spill protection resources.



GRS are designed to be a supplement to the Alaska Subarea Contingency Plans for Oil and Hazardous Substances Spills and Releases. Alaska is divided into ten Subareas, each of which has a regional oil spill response plan, known as a Subarea plan, which supplement the Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases (Unified Plan). GRS are the current standard for site-specific oil spill response planning in Alaska.

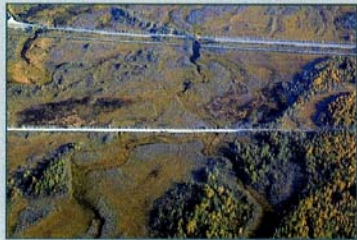


NCI-12-01 Spring Creek looking north.

DAM-U Dam

Passive Collection (Snare Line)

Dam

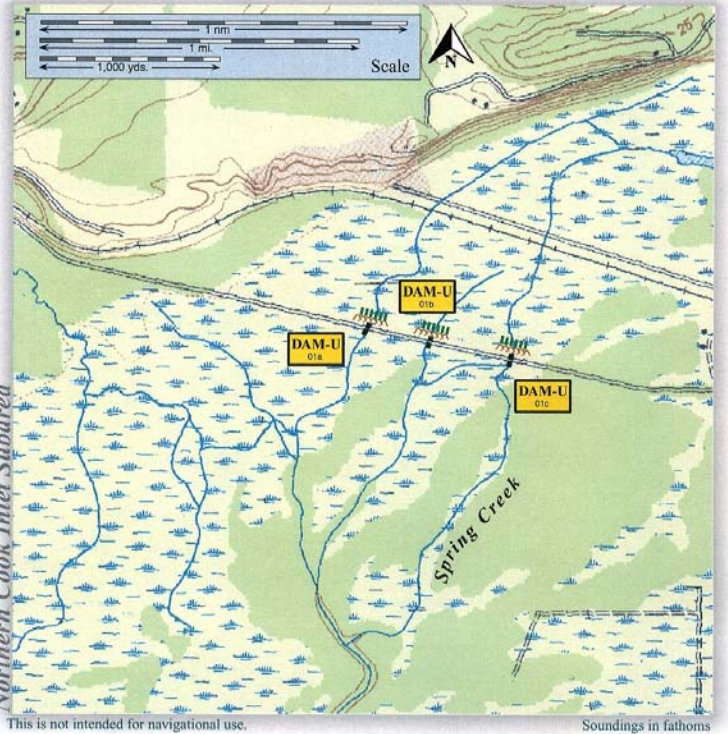


NCI-12-01a,b&c Spring Creek looking north.

Spring Creek, NCI-12

Center of map at 61° 32.88' N Lat., 149° 16.05' W Lon.

Geographic Response Strategies for Northern Cook Inlet Subarea



This is not intended for navigational use.

Soundings in fathoms

May 2004 DRAFT This tactic map is a working draft being used to develop a Geographic Response Strategy at this location. The tactics represented here have been approved by the NCI Workgroup but have not been approved by the Subarea Committee and should not be considered final. If you have questions or comments please contact us by email at contact@nukaresearch.com. Nuka Research & Planning Group, LLC.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
NCI-12-01	<p>Spring Creek Marsh</p> <p>Culvert locations:</p> <p>a. Lat. 59° 56.3 N Lon. 148° 40.0 W</p> <p>b. Lat. 59° 56.3 N Lon. 148° 40.0 W</p> <p>c. Lat. 59° 56.3 N Lon. 148° 40.0 W</p> <p>Primary threat to the marsh is a railway accident.</p>	<p>Culvert Blocking Dam</p> <p>Using sandbags and culvert, create an underflow dam on the upstream side of the culverts under Nelson Rd.</p>	<p>Transport equipment and filled sandbags to the site via road system.</p> <p>Place smaller diameter culvert in the road culvert and secure with sandbag dam.</p> <p>Cover the dam with polyethylene sheeting to prevent leakage.</p> <p>Place and secure snare line or sorbent boom in front of dam. Collect and replace as necessary.</p>	<p>Deployment</p> <p>Transport</p> <p>2 ea. trucks</p> <p>Equipment</p> <p>3 ea. culvert sand bags</p> <p>60 ft snare line or sorbent boom</p> <p>chain saws</p> <p>brush cutting tools</p> <p>fence posts</p> <p>plywood</p> <p>Personnel</p> <p>3 ea. response techs</p> <p>Personnel/Shift</p> <p>1 ea. response tech</p>	Wasilla	Via Nelson Road from Glen Highway access road.	<p>Fish-salmon</p> <p>Birds-waterfowl concentration/ nesting</p> <p>Human use-high recreational use (May-Nov.), sport fishing, waterfowl hunting.</p> <p>Habitat- marsh</p>	<p>Additional underflow capacity may be necessary during heavy rains or during break-up.</p> <p>REPORT any cultural resources found during operations to FOSC Historic Properties Specialist.</p> <p>Title 16 permit required from ADF&G.</p> <p>Title 41 permit required from ADNR</p> <p>Use snare boom for persistent oils and sorbent boom for non-persistent oils</p> <p>Site is an Alaska State Game Refuge.</p> <p>Site surveyed: 7/09/03 NCI GRS Tactics Committee</p> <p>Tested: not yet</p>

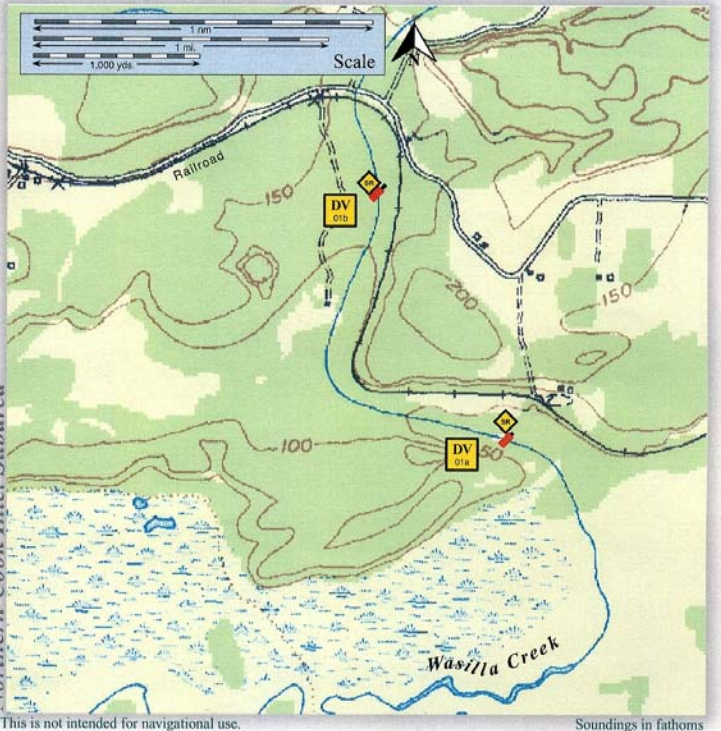


NCI-11 Wasilla Creek viewed from the south.

Wasilla Creek, NCI-11

Center of map at 61° 18.1' N Lat., 149° 18.97' W Lon.

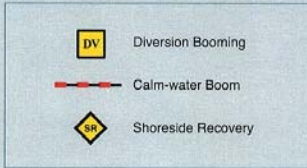
Geographic Response Strategies for Northern Cook Inlet Subarea



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Map & Photo Legend



May 2004

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Nuka Research & Planning Group, LLC.

Northern Cook Inlet Zone Geographic Response Strategies

May 31, 2004

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
NCI-11-01	Wasilla Creek a. Lat. 61° 33.14 N Lon. 149° 18.98 W b. Lat. 61° 33.43 N Lon. 149° 19.62 W	Divert and Collect Divert oil to collection points on the creek bank determined by spill source and trajectory.	Transport equipment by road system from Anchorage. Deploy anchors and place calm-water boom at the proper angle to divert oil to collection site. Set up collection unit and tend. Identified sites are based on survey and more likely site of spill. Actual location should be determined by spill source and trajectory.	Deployment Equipment 50 ft. calm-water boom 4 ea. anchor stakes 1 ea. shore-side collection unit Personnel/Shift 3 ea. response techs Tending Personnel/Shift 2 ea. response techs	Anchorage	Road system- a. Nelson Rd. from Glenn Highway. b. Creekside Preserve subdivision roads.	Fish-salmon Birds-waterfowl concentrations Habitat-marsh, spawning beds Human use- high recreational use (June-Sept.), sport fishing.	Take appropriate measures as outlined in Part 2 of this document to protect the stream bank at the collection site. FOSC Historic Properties Specialist should INSPECT site prior to operations. Title 41 permit required from ADNR Site surveyed: 07/08/03 NCI GRS Tactics Committee Tested: not yet