

# PRE-SPILL SCAT SEGMENT SURVEY

<b>1 GENERAL INFORMATION</b>		Segment Number: _____	
Area: _____	Location: _____	Tide Level: _____ m	
Survey Date: _____	Survey Time: _____	Weather/Wind Conditions: _____	
Observer Name: _____			
Participants: _____			
		Snow-Ice Conditions: _____	

<b>2 PHYSICAL CHARACTER</b> Segment Length: _____ m Width (intertidal): _____ m Width (backshore): _____ m Nearshore Reef/Shoal: Yes ____ No ____ Shoreline Waves (normal/average breaker height): < 25 cm ____; 25-50 cm ____; 50 cm-1 m ____; > 1 m ____ <u>POTENTIAL OIL BEHAVIOUR:</u> natural alongshore movement barrier: yes / no man-made alongshore barrier: yes / no natural bay or embayment: yes / no tidal inlet or channel: yes / no tidal lagoon or estuary: yes / no sand shoreline/potential for burial: yes / no overwash into lagoon or marsh: yes / no pebble-cobble shoreline/penetration potential: yes / no riprap, boulder shoreline/penetration-remobilization potential: yes / no marsh-wetland-tundra/potential for oiling meadow area: yes / no other: _____	<b>SUBSTRATE TYPE (from list below)</b>	<b>*LITZ</b>	<b>UITZ</b>	<b>SU</b>
	Bedrock			
	Man-Made Solid			
	Ice			
	Sand Beach			
	Mixed Sediment Beach (Sandy Gravel)			
	Pebble-Cobble Beach			
	Mixed Sediment Beach (Coarse Gravel)			
	Boulder Beach			
	Sand Tidal Flat			
Salt Marsh				
Peat				
Inundated Lowlying Tundra				
	* LITZ = lower intertidal zone; UITZ = upper intertidal; SU = supratidal zone			
	<b>COASTAL CHARACTER</b>			
	____ cliff	____ tidal inlet	____ marsh	
	____ platform	____ beach	____ overwash	
	____ man made	____ delta	____ scree/talus	
	____ estuary	____ dune	____ tundra	
	____ channel	____ flats	____ peat bog	

<b>3 RESOURCE ISSUES</b>		
	<i>Primary Resource(s) at Risk</i>	<i>Response Constraints</i>
Environmental		
Cultural		
Human Use/ Economic		

<b>4 OPERATIONAL CHARACTERISTICS</b>		
Surrounding Human-Use Activities (if any): Natural / Commercial / Residential / Recreational		
Potential nearby access: fixed-wing _____; helo.pad/landing _____; boat landing _____; ATV _____		
Access constraints/limitations: _____		
Describe the amount of pre-impact debris pickup/relocation work? _____ (light / moderate / heavy) No. of bags? _____ (estimate # of bags)		
remote: yes / no	winter shore ice: yes / no / ?	narrow intertidal zone: yes / no
staging areas: yes / no	exposed coast: yes / no	shore zone suitable for machinery: yes / no / ?
road access: yes / no / ?	strong currents: yes / no	backshore cliff yes / no
alongshore access: yes / no / ?	nearshore shoals/reefs: yes / no / ?	high tidal range: yes / no
<b>Comments:</b> _____		

<b>5 OPERATIONAL SAFETY CONSIDERATIONS</b>
<i>Note Safety Constraints Beyond Normal — or N/A:</i>
_____
_____

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<b>GENERAL INFORMATION</b>	Survey Date: _____
Area: _____	Location: _____ Segment: _____

<b>6 RESPONSE GOALS</b> <u>SEGMENT PROTECTION OBJECTIVES:</u> <input type="checkbox"/> <b>Prevent contact with shore or resource(s) at risk</b> <input type="checkbox"/> <b>Minimize contact</b> <input type="checkbox"/> Prevent oil movement to adjacent segment(s) <input type="checkbox"/> Contain stranded oil <input type="checkbox"/> Prevent oil transport into inlet, estuary, or channel <input type="checkbox"/> Other: _____ <u>SEGMENT PROTECTION STRATEGIES:</u> <input type="checkbox"/> Contain/recover oil on water <input type="checkbox"/> Alter direction of movement of oil on water <input type="checkbox"/> Prevent oil movement (landward) on flooding tides <input type="checkbox"/> Trap/contain and collect oil at the shoreline <input type="checkbox"/> Prevent remobilization of stranded oil <input type="checkbox"/> Prevent overwash into the backshore or a lagoon <input type="checkbox"/> Pre-impact shoreline debris removal <input type="checkbox"/> Other: _____	<u>SHORELINE CLEANUP/TREATMENT OBJECTIVES:</u> <input type="checkbox"/> <b>Allow natural recovery</b> <input type="checkbox"/> <b>Restore shore to pre-oiling condition</b> <input type="checkbox"/> <b>Accelerate natural recovery</b> <input type="checkbox"/> Restore with minimal removal of material <input type="checkbox"/> Minimize oil remobilization <input type="checkbox"/> Minimize damage to dune, marsh, or peat bog <input type="checkbox"/> Other: _____ <u>SHORELINE CLEANUP/TREATMENT STRATEGIES:</u> <input type="checkbox"/> Monitor <input type="checkbox"/> Act quickly to remove stranded oil before burial <input type="checkbox"/> Remove bulk oil only <input type="checkbox"/> Minimize waste generation using <i>in-situ</i> treatment methods <input type="checkbox"/> Manual techniques preferred <input type="checkbox"/> Salt-marsh fringe/meadow treatment strategies <input type="checkbox"/> Man-made backshore riprap treatment techniques <input type="checkbox"/> Other: _____
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<b>7 METHODS</b> ----- (check all that are appropriate and feasible) ----- (mark "?" if possibly useful; mark "X" if not recommended or inappropriate)	
<u>POTENTIAL PROTECTION OPTIONS:</u> <input type="checkbox"/> 1. Nearshore containment/recovery <input type="checkbox"/> 2. Nearshore redirection (away) <input type="checkbox"/> 3. Nearshore redirection (towards) <input type="checkbox"/> 4. Exclusion boom <input type="checkbox"/> 5. Shoreline (intertidal) protection boom <input type="checkbox"/> 6. Shoreline barrier/berm <input type="checkbox"/> 7. Contact barrier <input type="checkbox"/> 8. Channel boom/barrier	<u>POTENTIAL CLEANUP/TREATMENT OPTIONS:</u> <input type="checkbox"/> 1. Natural recovery <input type="checkbox"/> 2. Flooding <input type="checkbox"/> 3. Low-pressure, cold wash <input type="checkbox"/> 4. Low-pressure, hot/warm wash <input type="checkbox"/> 5. High-pressure, cold wash <input type="checkbox"/> 6. High-pressure, hot/warm wash <input type="checkbox"/> 7. Steam cleaning <input type="checkbox"/> 8. Sandblasting <input type="checkbox"/> 9. Manual removal <input type="checkbox"/> 10. Vacuums <input type="checkbox"/> 11. Mechanical removal <input type="checkbox"/> 12. Vegetation removal <input type="checkbox"/> 13. Passive sorbent <input type="checkbox"/> 14. Tilling/Aeration <input type="checkbox"/> 15. Surf washing/Sediment reworking <input type="checkbox"/> 16. Burning <input type="checkbox"/> 17. Dispersants <input type="checkbox"/> 18. Shoreline cleaners <input type="checkbox"/> 19. Solidifiers <input type="checkbox"/> 20. Bioremediation/Nutrient enrichment

<b>8 OPERATIONAL ISSUES</b> <u>SPILL SITE ACCESS: (Enter "No" or "Yes")</u>							
To/From:	Trucks	Heavy Equip.	2X4 P/U	Backhoes	ATVs	> 50 ft. Vessel	< 15 ft. Runabouts
Staging Area/Backshore							
Intertidal							
Subtidal Water							
<u>HEAVY EQUIPMENT USE FEASIBILITY: (Enter "Good", "Fair", "Poor", or "No" based on ability to operate)</u>							
	Grader	Bulldozer	Front-end Loader	Backhoe	Bobcat	4x4 P/U	ATVs
Access Alongshore							
Bearing Capacity							
Beach Slope/Width							
Maximum Distance to Temporary Storage from Cleanup Site? _____ (metres)							

<b>9 COMMENTS</b>
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<b>10 VISUALS</b> SKETCH Attached: yes _____ no _____; PHOTOS Attached: yes _____ no _____ VIDEO: yes _____ no _____; tape # _____; Minutes _____ to _____; Storage location _____
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