PRE-SPILL SCAT TEMPERATE-ARCTIC SEGMENT SURVEY

1 GENERAL INFORMATION

Area:_____ Location:_____
Survey Date:_____ Survey Time:_____
Observer Name:_____
Participants:_____
_____
_____

Segment Number:_____
Tide Level: _____m
Weather/Wind Conditions:_____
_____
_____
Snow-Ice Conditions:_____

2 PHYSICAL CHARACTER

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____
POTENTIAL OIL BEHAVIOUR:
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-tundar/potential for oiling meadow area: yes / no
other:

SUBSTRATE TYPE (from list below)	*LITZ	UITZ	SU
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

COASTAL CHARACTER

____ cliff ____ tidal inlet ____ marsh
____ platform ____ beach ____ overwash
____ man made ____ delta ____ scree/talus
____ estuary ____ dune ____ tundra
____ channel ____ flats ____ peat bog

3 RESOURCE ISSUES

	Primary Resource(s) at Risk	*Response Constraints*
Environmental		
Cultural		
Human Use/ Economic		

4 OPERATIONAL CHARACTERISTICS

Surrounding Human-Use Activities (if any): Natural / Agricultural / 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
staging areas: yes / no
road access: yes / no / ?
alongshore access: yes / no / ?
winter shore ice: yes / no / ?
exposed coast: yes / no
strong currents: yes / no
nearshore shoals/reefs: yes / no / ?
narrow intertidal zone: yes / no
shore zone suitable for machinery: yes / no / ?
backshore cliff yes / no
high tidal range: yes /no

Comments:

5 OPERATIONAL SAFETY CONSIDERATIONS

Note Safety Constraints Beyond Normal — or N/A:

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GENERAL INFORMATION Survey Date:_____

Area:_____ Location:_____ Segment:_____

6 RESPONSE GOALS

SEGMENT PROTECTION OBJECTIVES:

_____ **Prevent contact with shore or resource(s) at risk**

_____ **Minimize contact**

_____Prevent oil movement to adjacent segment(s)

_____Contain stranded oil

_____Prevent oil transport into inlet, estuary, or channel

_____Other:

SEGMENT PROTECTION STRATEGIES:

_____Contain/recover oil on water

_____Alter direction of movement of oil on water

_____Prevent oil movement (landward) on flooding tides

_____Trap/contain and collect oil at the shoreline

_____Prevent remobilization of stranded oil

_____Prevent overwash into the backshore or a lagoon

_____Pre-impact shoreline debris removal

_____Other:

SHORELINE CLEANUP/TREATMENT OBJECTIVES:

_____ **Allow natural recovery**

_____ **Restore shore to pre-oiling condition**

_____ **Accelerate natural recovery**

_____Restore with minimal removal of material

_____Minimize oil remobilization

_____Minimize damage to dune, marsh, or peat bog

_____Other:

SHORELINE CLEANUP/TREATMENT STRATEGIES:

_____Monitor

_____Act quickly to remove stranded oil before burial

_____Remove bulk oil only

_____Minimize waste generation using *in-situ* treatment methods

_____Manual techniques preferred

_____Salt-marsh fringe/meadow treatment strategies

_____Man-made backshore riprap treatment techniques

_____Other:

7 METHODS ---------- *(check all that are appropriate and feasible)* ----------

(mark "?" if possibly useful; mark "X" if not recommended or inappropriate)

POTENTIAL PROTECTION OPTIONS:

____1. Nearshore containment/recovery

____2. Nearshore redirection (away)

____3. Nearshore redirection (towards)

____4. Exclusion boom

____5. Shoreline (intertidal) protection boom

____6. Shoreline barrier/berm

____7. Contact barrier

____8. Channel boom/barrier

POTENTIAL CLEANUP/TREATMENT OPTIONS:

____1. Natural recovery

____2. Flooding

____3. Low-pressure, cold wash

____4. Low-pressure, hot/warm wash

____5. High-pressure, cold wash

____6. High-pressure, hot/warm wash

____7. Steam cleaning

____8. Sandblasting

____9. Manual removal

____10. Vacuums

____11. Mechanical removal

____12. Vegetation removal

____13. Passive sorbent

____14. Tilling/Aeration

____15. Surf washing/Sediment reworking

____16. Burning

____17. Dispersants

____18. Shoreline cleaners

____19. Solidifiers

____20. Bioremediation/Nutrient enrichment

8 OPERATIONAL ISSUES

SPILL SITE ACCESS: (Enter "No" or "Yes")

To/From:	Trucks	Heavy Equip.	2X4 P/U	Backhoes	ATVs	> 50 ft. Vessel	< 15 ft. Runabouts
Staging Area/ Backshore							
Intertidal							
Subtidal Water							

HEAVY EQUIPMENT USE FEASIBILITY: (Enter "Good", "Fair", "Poor", or "No" based on ability to operate)

	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)

9 COMMENTS

10 VISUALS

SKETCH Attached: yes_____ no_____; PHOTOS Attached: yes_____ no_____

VIDEO: yes_____ no_____; tape #_____; Minutes _____to_____; Storage location_____