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| **RIVER ARCTIC (SOS) FORM (ver.20Aug15) Incident:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Page\_\_\_\_\_\_ of \_\_\_\_\_\_** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **1.GENERAL INFORMATION** | | | | | | | | | | | | | | **Date** (dd/mmm/yyyy) | | | | | | | | | | | **Time** (24h standard/daylight)  \_\_\_\_\_:\_\_\_\_\_ to \_\_\_\_\_:\_\_\_\_\_ | | | | | | | | | | | | | | | **Water Level**  Low / Mean / Bank-full / Overbank Falling / Steady / Rising | | | | | | | | | |
| **Segment ID**: | | | | | | **Bank:** L / R | | | | | | | | **Segment Name:** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Ops Zone:** | | | | | | | | | | | | | | **Survey Type:** | | | | | | | | | | **STR:** | | | | | | | | | | | | | | | |
| Survey By: Foot \_\_ ATV\_\_ Boat\_\_ Helicopter\_\_ Other \_\_\_\_\_\_\_\_­­­­ | | | | | | | | | | | | | | | | | | | | | | | | Weather: Sun / Clouds / Fog / Rain / Snow | Windy / Calm | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | Season: Open Water/Freeze-Up Transition/Frozen Period/Breakup-Thaw | | | | | | | | | | | | | | | | | | | | | | | | | |
| **2. SURVEY TEAM** | | | | | Name | | | | | | | | | | | | | | | | Organization | | | | | | | | | Name | | | | | | | | | | | | | | | Organization | | | | |
| Team Number | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | |
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| **3. SEGMENT** | | | | | | | | | | | | Total Length: meters | | | | | | | | | | | | | | | Length Surveyed: meters | | | | | | | | | | | | | | | | | | Datum**:** | | | | |
| Survey Start GPS: | | | WP: | | | | | | | | | | LAT: **.** | | | | | | | | | | | | | | | | | | | LONG: **.** | | | | | | | | | | | | | | | | | |
| Survey End GPS: | | | WP: | | | | | | | | | | LAT: **.** | | | | | | | | | | | | | | | | | | | LONG: **.** | | | | | | | | | | | | | | | | | |
| **4a. RIVER BANK TYPE**  *Indicate only ONE Primary(dominant) type and ALL Secondary types. CIRCLE those OILED* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BEDROCK: Cliff\_\_\_\_\_ Ramp\_\_\_\_\_ Platform\_\_\_\_\_ Sediment BEACH: Sand\_\_\_\_\_ Mixed\_\_\_\_\_ Pebble/Cobble\_\_\_\_\_ Boulder\_\_\_\_\_  MAN-MADE: Solid\_\_\_\_\_\_ Permeable\_\_\_\_\_\_  Description:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ESI Shoreline Type (primary) \_\_\_\_\_ (secondary) \_\_\_\_\_ Sediment FLAT: Mud\_\_\_\_\_ Sand \_\_\_\_\_ Mixed\_\_\_\_\_ Pebble/Cobble/Boulder\_\_\_\_\_ | | | | | | | | | | | | | | | | | | | Sediment BANK: Sand\_\_\_\_ Mixed\_\_\_\_ Pebble/Cobble\_\_\_\_ Boulder\_\_\_\_\_  Sediment BAR/FLAT: Mud\_\_\_ Sand \_\_\_ Mixed\_\_­­\_ Pebble/Cobble/Boulder\_\_\_\_  Boulder Barricade:\_\_\_\_\_\_\_\_\_\_\_  Peat Shoreline:\_\_\_\_ Inundated Low-lying Tundra:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ OTHER: If snow and ice use Winter SOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **4b. SNOW AND ICE CONDITIONS** *Circle all bank/ bar locations as necessary – Midstream : Lower : Upper : Overbank* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Snow**: Cover\_\_\_\_\_\_(%) Thickness\_\_\_\_\_\_\_\_(cm) Fresh: Y / N Compacted: Y / N Location: MS LB UB OB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Ice Type** | | | | | | | | | | **Width (m)** | | | | | | | **Thickness (cm)** | | | | | | **Location** | | | | | | | | | | | **Other Descriptions** | | | | | | | | | | | | | | | |
| Frozen Spray | | | | | | | | | |  | | | | | | |  | | | | | | N/A | | | | | | | | | | |  | | | | | | | | | | | | | | | |
| Ice Foot | | | | | | | | | |  | | | | | | |  | | | | | | MS LB UB OB | | | | | | | | | | |
| Ice Push Ridge | | | | | | | | | |  | | | | | | |  | | | | | | MS LB UB OB | | | | | | | | | | |
| Frozen Swash | | | | | | | | | |  | | | | | | |  | | | | | | MS LB UB OB | | | | | | | | | | |
| Grounded Floes | | | | | | | | | |  | | | | | | |  | | | | | | MS LB UB OB | | | | | | | | | | |
| **4c. RIVER ICE CONDITIONS** *Circle one in each of the three categories* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CONCENTRATION: 0 / 10** | | | | | | | | | | | | | | | | **FORM: (m)** | | | | | | | | | | | | | | | | | | | **AGE and Thickness (cm)** | | | | | | | | | | | | | | |
| Open Drift < 1/ 10 | | | | | | | | | | | | | | | | None | | | | | | | | | | | | | | | | | | | New = frazil – grease – slush | | | | | | | | | | | | | | |
| Very Open Drift 1/10 – 3/10 | | | | | | | | | | | | | | | | Pancake 0.3 – 3 | | | | | | | | | Small Floes: 20-100 | | | | | | | | | | Nilas or ice rind < 10 | | | | | | | | | | | | | | |
| Open Drift 4/10 – 6/10 | | | | | | | | | | | | | | | | Brash < 2 | | | | | | | | | Medium Floes 100-500 | | | | | | | | | | Young: grey-white 10-30 | | | | | | | | | | | | | | |
| Close Pack 7/10 – 8/10 | | | | | | | | | | | | | | | | Ice Cakes < 20 | | | | | | | | | Big Floe: 500 – 2000 | | | | | | | | | | > 30 | | | | | | | | | | | | | | |
| Very Close Pack 9/10 | | | | | | | | | | | | | | | |  | | | | | | | | | Vast-Giant Floe > 2000 | | | | | | | | | | > 250 | | | | | | | | | | | | | | |
| Solid 10/10 | | | | | | | | | | | | | | | | Fast Ice: Y / N Bank Cracks: Y / N | | | | | | | | | | | | | | | | | | | >300 | | | | | | | | | | | | | | |
| **Ice Movement:** STATIC Y / N - BREAKUP/CREEPING SLOWLY Y / N - BREAKUP/MOVING RAPIDLY Y / N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **4d. OVERBANK / BACKSHORE CHARACTER**  *Indicate only ONE Primary (P) and ANY Secondary (S) types.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cliff/Hill:\_\_\_\_ ht.\_­­\_\_\_\_ m.  Sloped: > (50) (150 ) (30o) | | | | | | | Flat/Lowland:\_\_\_\_ Beach:\_\_\_\_ Dune:\_\_\_\_ Inlet/Channel:\_\_\_\_ Delta:\_\_\_\_ Lagoon:\_\_\_\_ Marsh/Wetland:\_\_\_\_  Man-Made: \_\_\_ Type \_\_\_\_\_\_\_\_\_\_\_\_\_--- Tundra / Forested / Vegetated Primary Substrate: \_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **5. OPERATIONAL FEATURES** | | | | | | | | | | | | | | | Oiled Debris? Yes / No | | | | | | | | | | | Type: | | | | | | | | | | | | | | Amount: (bags/trucks) | | | | | | | | | |
| Direct backshore access? Yes / No | | | | | | | | | | | | | | | Alongshore access from next segment? Yes / No | | | | | | | | | | | | | | | | | | | | | | Suitable for backshore staging? Yes / No | | | | | | | | | | | | |
| Access Description / Restrictions: Current Dominated Channel? Yes / No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **6. OILING DESCRIPTION*:*** *Use letters A-Z, Indicate 100% overlapping oil zones in different tidal zones by numbering them (e.g. A1, A2)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone ID | WP #  Start | WP #  End | | Substrate  Type(s)  or  ESI Code | | | | **Bank Zone** | | | | | | | **Oil Cover** | | | | | | | | | | | | | | | | **Oil Thickness** | | | | | | | | | | **Oil Character** | | | | | | | | |
| **Area** | | | | | **Distribution** | | | | | | | | **Size** | | |
| MS | LB | | UB | | OB | | Length  (m) | | | Width  (m) | | Dist %  or  (> 1) | | Number  per unit area | | | | | | Avg Size (cm) | Large Size  (cm) | | TO | | CV | | | CT | | ST | FL | | FR | MS | TB | PT | | TC | SR | AP | NO |
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| **7. SUBSURFACE OILING CONDITIONS:** *Use supplemental River SOS form for pits.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **8. COMMENTS:** *Use supplemental River SOS form for comments/sketches.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sketch / Map: Yes / No Photos/Video: Yes / No Numbers: ( - ) Photographer Name: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |