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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 |  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  **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 |  SubstrateType(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: |