

**ALBERTA LOTIC WETLAND HEALTH ASSESSMENT (LARGE RIVERS)**

Record ID No: \_\_\_\_\_

(Derived from the Alberta Lotic Wetland Inventory)

Polygon No: \_\_\_\_\_

**ADMINISTRATIVE DATA**

- A1. Field Data Collected by (Organization): \_\_\_\_\_
- A2a. Funding Agency/Organization: \_\_\_\_\_
- A2b. Funding Source/Grant: \_\_\_\_\_
- A3. Date Field Data Collected: \_\_\_\_\_ A4. Year: \_\_\_\_\_ A5. Observers: \_\_\_\_\_
- A6a. Is this site representative? \_\_\_\_\_ If Yes, A6b. choose category: \_\_\_\_\_
- A6c. How was this site chosen? \_\_\_\_\_
- A7a. Park(s)? (Yes; No): \_\_\_\_\_ A7b. Please Check all that apply:  National  Urban or Rural Municipalities
- A7c. Name? \_\_\_\_\_  Provincial  Other
- A8a. Other Protected Areas? (Yes; No): \_\_\_\_\_ A8b. Please check all that apply:  Ecological  Conservation Easement
- A8c. Name(s)/Other: \_\_\_\_\_  Environmental  Other
- A9. Watershed Group Affiliation: \_\_\_\_\_ A10. Project Name: \_\_\_\_\_
- A11a. Is this Private Land? (Yes; No): \_\_\_\_\_ A11b. Owner's Name: \_\_\_\_\_
- A12a. Is this Rented Private Land? (Yes; No): \_\_\_\_\_ A12b. Renter's Name: \_\_\_\_\_
- A12c. Renter's Home Legal Land Description: \_\_\_\_\_ A12d. County, if different than polygon: \_\_\_\_\_
- A13a. Is this Public Land? (Yes; No): \_\_\_\_\_ A13b. Type (Federal,Prov., Municipal): \_\_\_\_\_
- A13c. Land Mgr's Name(s): \_\_\_\_\_ A13d. Title, Office and/or Dept. of Land Mgr(s): \_\_\_\_\_
- A14a. Is this part of a grazing lease or grazing reserve? (Yes; No): \_\_\_\_\_ A14b. Lessee Name: \_\_\_\_\_
- A14c. Agricultural disposition No.: GRL: \_\_\_\_\_ GRP: \_\_\_\_\_ FGL: \_\_\_\_\_ Other: \_\_\_\_\_
- A14d. Agricultural disposition Name (e.g., Community Pasture): \_\_\_\_\_
- A15a. Is this land part of a Public Land Use Zone (PLUZ)? (Yes; No): \_\_\_\_\_ A15b. PLUZ Name: \_\_\_\_\_
- A16a. Has this polygon been inventoried before? (Yes; No): \_\_\_\_\_ A16b. Other years sampled: \_\_\_\_\_
- A16c. Does this polygon coincide exactly with a previously inventoried polygon? (Yes; No): \_\_\_\_\_
- A16d. ID No.(s) of other inventories of this exact polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A17a. Does this polygon share common area with other inventoried polygon(s), but is not exact? (Yes; No): \_\_\_\_\_
- A17b. ID No.(s) of other records sharing area with this polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A18a. Has a change in management occurred? (Yes; No, Unknown): \_\_\_\_\_ If Yes, A18b. Year changed occurred: \_\_\_\_\_
- A18c. Type of management change applied: \_\_\_\_\_
- A19. Primary Contact (Include agency name): \_\_\_\_\_

**LOCATION DATA**

- B1. Province: \_\_\_\_\_ B2. Municipality or Reserve Type: \_\_\_\_\_
- B3a. Indian Reserve: \_\_\_\_\_ B3b. Military Reserve: \_\_\_\_\_
- B4a. Rural or Specialized Municipality: \_\_\_\_\_ B4b. Hamlet: \_\_\_\_\_
- B5a. City/Town/Village: \_\_\_\_\_ B5b. SubdivPlan #: \_\_\_\_\_ B5c. Block #: \_\_\_\_\_ B5d. Lot #: \_\_\_\_\_
- B6a. Waterbody Name: \_\_\_\_\_ B6b. Side of Waterbody: \_\_\_\_\_
- B7. Legal Land 1/4 1/4 Sec: 1/4 Sec: Section: Township (NS): Range (EW): Meridian:  
Location: \_\_\_\_\_
- B8a. Natural Region: \_\_\_\_\_ B8b. Sub-Region: \_\_\_\_\_
- B9a. Major Watershed (e.g. North Saskatchewan River): \_\_\_\_\_
- B9b. Minor Watershed (e.g. Battle River): \_\_\_\_\_
- B9c. Sub-basin (e.g. Iron Creek): \_\_\_\_\_
- B10a. UTM coordinates of polygon Upper end: Easting: \_\_\_\_\_; Northing: \_\_\_\_\_; Zone: \_\_\_\_\_
- B10b. UTM coordinates of polygon Lower end: Easting: \_\_\_\_\_; Northing: \_\_\_\_\_; Zone: \_\_\_\_\_
- B10c. TRIMBLE/GPS Unit #: \_\_\_\_\_ WPt Upper: \_\_\_\_\_ WPt Lower: \_\_\_\_\_ Projection: \_\_\_\_\_
- B10d. Comments: \_\_\_\_\_
- B11a. Map Title(s): \_\_\_\_\_
- B11b. Map Scale: \_\_\_\_\_ B11c. Map Year: \_\_\_\_\_
- B12. Aerial Photo Info: Scale: \_\_\_\_\_ Date: \_\_\_\_\_ Other Info: \_\_\_\_\_

**SELECTED SUMMARY DATA**

- C1.** Water body type: \_\_\_\_\_ **C2.** Polygon size (acres): \_\_\_\_\_ ; (hect): \_\_\_\_\_
- C3a.** Is the entire polygon an upland? (Yes; No): \_\_\_\_\_ If **No**, **C3b.** Does the polygon consist entirely of functional wetland types? (Yes; No): \_\_\_\_\_ **C3c.** Functional wetland (acres): \_\_\_\_\_ ; (hect): \_\_\_\_\_ **C3d.** Percent of total polygon: \_\_\_\_\_
- C4.** Channel length (mi): \_\_\_\_\_ ; (km): \_\_\_\_\_ **C5.** Number of river miles the polygon represents: (mi) \_\_\_\_\_ ; (km): \_\_\_\_\_
- C6a.** Average polygon width (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_
- C6b.** Riparian zone width range (ft): \_\_\_\_\_ to \_\_\_\_\_ ; (m): \_\_\_\_\_ to \_\_\_\_\_
- C6c.** Riparian area along a stream or small river (less than 15 m wide) or along a river (greater than 15 m wide): \_\_\_\_\_

**C8. Habitat Types and Community Types**

| Classification Type Name | Phase | Pct of Poly | Successional Stage or Comments/Guides Used |
|--------------------------|-------|-------------|--|
| _____                    | _____ | _____       | _____                                      |
| _____                    | _____ | _____       | _____                                      |

**LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET FOR LARGE RIVERS**  
 (Derived from Lotic Wetland Inventory Form)

Record ID No: \_\_\_\_\_  
 Polygon Number: \_\_\_\_\_

|  | Actual Score | Possible Score |
|--|--------------|----------------|
| 1. Cottonwood and Balsam Poplar Regeneration (D5c)           | _____        | _____          |
| 2. Regeneration of other Native Tree Species (D5d)           | _____        | _____          |
| 3. Regeneration of Preferred Shrub Species (D6c)             | _____        | _____          |
| 4. Standing Decadent and Dead Woody Material (D2b and D6c)   | _____        | _____          |
| 5a. Browse Util. of Preferred Trees and Shrubs (D5a and D6c) | _____        | _____          |
| 5b. Woody Veg. Removal other than Browsing (D6e)             | _____        | _____          |
| 6. Total Canopy Cover of Woody Species (D11)                 | _____        | _____          |
| 7a. Total Canopy Cover of Invasive Plant Species (D13c)      | _____        | _____          |
| 7b. Density Distribution of Invasive Plant Species (D13c)    | _____        | _____          |

List Invasive Plant Species present, including Percent Canopy Cover and Density Distribution Class:

|                                      | CC    | DD    |                                       | CC    | DD    |                                 | CC    | DD    |
|--------------------------------------|-------|-------|---------------------------------------|-------|-------|---------------------------------|-------|-------|
| black henbane (HYOSNIG):             | _____ | _____ | downy brome/chess (BROMTEC):          | _____ | _____ | pale yellow iris (irisps)*:     | _____ | _____ |
| blueweed (ECHIVUL):                  | _____ | _____ | European buckthorn (RHAMCAT)*:        | _____ | _____ | perennial Sowthistle (SONCARV): | _____ | _____ |
| broad-leaved pepper-grass (LEPILAT): | _____ | _____ | field bindweed (CONVARV):             | _____ | _____ | purple loosestrife (LYTHSAL):   | _____ | _____ |
| Canada thistle (CIRSARV):            | _____ | _____ | field scabious blue buttons(KNAUARV): | _____ | _____ | Russian knapweed (CENTREP):     | _____ | _____ |
| caraganna (CARAARB):                 | _____ | _____ | great burdock(ARCTLAP):               | _____ | _____ | Russian olive (ELAEANG):        | _____ | _____ |
| cleavers (GALIAPA):                  | _____ | _____ | heart-podded hoary cress(CARDDRA):    | _____ | _____ | saltlover (HALOGLO):            | _____ | _____ |
| common baby's-breath (GYSPAN):       | _____ | _____ | Himalayan balsam (IMPAGLA):           | _____ | _____ | scentless chamomile (MATRPER):  | _____ | _____ |
| common barberry (BERBVUL):           | _____ | _____ | Japanese brome/chess (BROMJAP):       | _____ | _____ | smth peren.sowthistle(SONCULI): | _____ | _____ |
| common burdock (ARCTMIN):            | _____ | _____ | leafy spurge (EUPHESU):               | _____ | _____ | spotted knapweed (CENTMAC)*:    | _____ | _____ |
| common hound's-tongue (CYNOOFF):     | _____ | _____ | lens-podded hoary cress (CARDCHA):    | _____ | _____ | tall buttercup (RANUACR):       | _____ | _____ |
| common mullein (VERBTHA):            | _____ | _____ | marsh thistle (CIRSPAL)*:             | _____ | _____ | tamarisk/salt cedar (TAMACHI):  | _____ | _____ |
| common tansy (TANAVUL):              | _____ | _____ | meadow hawkweed (HIERCAE)*:           | _____ | _____ | tufted vetch (SILEPRA):         | _____ | _____ |
| creeping bellflower (CAMPRAP):       | _____ | _____ | meadow knapweed (CENTMON):            | _____ | _____ | white cockle (SILEPRA):         | _____ | _____ |
| Dalmatian Toadflax (LINADAL):        | _____ | _____ | mouse-ear hawkweed (HIERPIL):         | _____ | _____ | woolly burdock (ARCTTOM):       | _____ | _____ |
| dame's rocket (HESPMAT):             | _____ | _____ | nodding thistle (CARDNUT)*:           | _____ | _____ | yellow clematis (CLEMTAN):      | _____ | _____ |
| diffuse knapweed (CENTDIF):          | _____ | _____ | orange hawkweed(HIERAUR)*:            | _____ | _____ | yellow toadflax (LINAVAL):      | _____ | _____ |
|                                      |       |       | ox-eye daisy (CHRYLEU):               | _____ | _____ | Others:                         | _____ | _____ |

7c. Are there elevated status species for this county? (Yes; No; NC): \_\_\_\_\_

7d. If **Yes**, indicate species, elevated status, CC and DD: \_\_\_\_\_

|  |       |       |
|--|-------|-------|
| 8. Disturbance-Increaser Undesirable Herbaceous Species (D14b) | _____ | _____ |
| <b>Vegetation Subtotal:</b>                                    | _____ | _____ |

|   |       |       |
|---|-------|-------|
| 9. River Bank Root Mass Protection (F7)                         | _____ | _____ |
| 10. Human-Caused Bare Ground (F15c)                             | _____ | _____ |
| 11. Removal or Addition of Water from/to River System (F24)     | _____ | _____ |
| 12. Control of Flood Peak and Timing by Upstream Dam(s) (F25)   | _____ | _____ |
| 13. River Bank Structurally Altered by Human Activity (F6b)     | _____ | _____ |
| 14. Human Physical Alteration to the Rest of the Polygon (F19d) | _____ | _____ |
| 15. Natural Floodplain Accessibility (F26)                      | _____ | _____ |

|                                   |       |       |
|-----------------------------------|-------|-------|
| <b>Soil / Hydrology Subtotal:</b> | _____ | _____ |
| <b>Overall Polygon Total:</b>     | _____ | _____ |

**Rating Calculation:**

(Actual Score/Possible Score) X 100 = Rating Percent

Vegetation Rating: \_\_\_\_\_ / \_\_\_\_\_ x 100 = \_\_\_\_\_

Soil / Hydrology: \_\_\_\_\_ / \_\_\_\_\_ x 100 = \_\_\_\_\_

**OVERALL:** \_\_\_\_\_ / \_\_\_\_\_ x 100 = \_\_\_\_\_

Descriptive Category

| Rating Percent Range | Descriptive Category                            |
|----------------------|---|
| 80-100               | Proper Functioning Condition (Healthy)          |
| 60-79                | Functional At Risk (Healthy, but with Problems) |
| <60                  | Nonfunctional (Unhealthy)                       |

