

**ALBERTA WETLAND HEALTH ASSESSMENT FOR
LARGE RIVER SYSTEMS (Survey)**

Record ID No: _____

Polygon No: _____

ADMINISTRATIVE DATA

- A1.** Field Data Collected by (Organization): _____
- A2.** Funding Agency/Organization: _____
- 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
 Provincial Other
- A7c.** Name? _____
- A8a.** Other Protected Areas? (Yes; No): _____ **A8b.** Please check all that apply: Ecological Conservation Easement
 Environmental Other
 Municipal
- A8c.** Name(s)/Other: _____
- A9.** Watershed Group Affiliation: _____ **A10.** Project Name: _____
- A11.** 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 Manager's Name: _____ **A13d.** Land Manager's Title, Office/Dept: _____
- 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.** Has this polygon been inventoried before? (Yes; No): _____ **A15b.** Other years sampled: _____
- A15c.** Does this polygon coincide exactly with a previously inventoried polygon? (Yes; No): _____
- A15d.** ID No.(s) of other inventories of this exact polygon: _____, _____, _____, _____, _____
- A16a.** Does this polygon share common area with other inventoried polygon(s), but is not exact? (Yes; No): _____
- A16b.** ID No.(s) of other records sharing area with this polygon: _____, _____, _____, _____
- A17a.** Has a change in management occurred? (Yes; No, Unknown): _____ If **Yes**, **A17b.** Year changed occurred: _____
- A17c.** Type of management change applied: _____
- A18.** 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 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: _____ ; (km): _____

C6a. Average polygon width (ft): _____ ; (m): _____

C6b. Riparian zone width range (ft): _____ to _____ ; (m): _____ to _____

C7. Habitat Types and Community Types

| Classification Type Name | Phase | Percent of Polygon | Successional Stage or Comments/Guides Used |
|--------------------------|-------|--------------------|--|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

OPTIONAL SITE CHARACTERISTICS

D1a. Does the polygon has potential for tall woody type(s)? (Yes, No): _____

D1b. Does the polygon has tall woody type(s) present? (Yes, No): _____

D2a. Tree **AND** shrub removal by other than browse: None (0-5%); Light (6-25%); Moderate (26-50%); Heavy (>50%); NA; NC: _____

D2b. Basis of Call: _____

D3. Waterbody number (FMIS/Hydro code): _____

D4a. Is water quality data available on this waterbody? (Yes, No, Unknown, NA): _____

If **Yes**, **D4b.** Describe the reference for that data (name, year, etc.): _____

RIVER HEALTH EVALUATION

Polygon Number: _____ Record ID No: _____

| | Actual Score | Possible Score | Comment |
|--|--------------|----------------|---------|
| 1. Cottonwood and Poplar Regeneration | _____ | _____ | _____ |
| 2. Regeneration of other Native Tree Species | _____ | _____ | _____ |
| 3. Regeneration of Preferred Shrub Species | _____ | _____ | _____ |
| 4. Standing Decadent and Dead Woody Material | _____ | _____ | _____ |
| 5a. Browse Util. of Preferred Trees and Shrubs | _____ | _____ | _____ |
| 5b. Woody Veg. Removal other than Browsing | _____ | _____ | _____ |
| 6. Total Canopy Cover of Woody Species | _____ | _____ | _____ |
| 7a. Total Canopy Cover of Invasive Plant Species | _____ | _____ | _____ |
| 7b. Density/Distribution Pattern of Invasive Plant Species | _____ | _____ | _____ |

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

| | Can.Cov. | Dens. | Dist. | | Can.Cov. | Dens. | Dist. | | Can.Cov. | Dens. | Dist. |
|------------------------|----------|-------|-------|-------------------------------|----------|-------|-------|----------------------|----------|-------|-------|
| blueweed: | _____ | _____ | _____ | field bindweed: | _____ | _____ | _____ | spotted knapweed: | _____ | _____ | _____ |
| Canada thistle: | _____ | _____ | _____ | leafy spurge: | _____ | _____ | _____ | tall buttercup: | _____ | _____ | _____ |
| caragana: | _____ | _____ | _____ | nodding thistle: | _____ | _____ | _____ | tamarisk/salt cedar: | _____ | _____ | _____ |
| cleavers: | _____ | _____ | _____ | ox-eye daisy: | _____ | _____ | _____ | white cockle: | _____ | _____ | _____ |
| common burdock: | _____ | _____ | _____ | perennial sow-thistle: | _____ | _____ | _____ | yellow toadflax: | _____ | _____ | _____ |
| common hound's-tongue: | _____ | _____ | _____ | purple loosestrife: | _____ | _____ | _____ | | | | |
| common tansy: | _____ | _____ | _____ | Russian knapweed: | _____ | _____ | _____ | | | | |
| Dalmatian Toadflax: | _____ | _____ | _____ | Russian olive: | _____ | _____ | _____ | Others: | _____ | _____ | _____ |
| diffuse knapweed: | _____ | _____ | _____ | scentless chamomile: | _____ | _____ | _____ | Others: | _____ | _____ | _____ |
| downy chess: | _____ | _____ | _____ | smooth perennial sow-thistle: | _____ | _____ | _____ | | | | |
| European buckthorn: | _____ | _____ | _____ | | | | | | | | |

2c. Are there elevated status species for this county? (Yes; No; NC):

| | | | | | |
|-----------------|-------|-----------------|-------|-----------------|-------|
| Elevated Sps 1: | _____ | Elevated Sps 2: | _____ | Elevated Sps 3: | _____ |
|-----------------|-------|-----------------|-------|-----------------|-------|

8. Disturbance-increaser Undesirable Herbaceous Species _____
Vegetation Subtotal: _____

| | | | |
|--|-------|-------|-------|
| 9. River Bank Root Mass Protection | _____ | _____ | _____ |
| 10. Human-Caused Bare Ground | _____ | _____ | _____ |
| 11. Removal or Addition of Water from/to River System | _____ | _____ | _____ |
| 12. Control of Flood Peak and Timing by Upstream Dam(s) | _____ | _____ | _____ |
| 13. River Banks Structurally Altered by Human Activity | _____ | _____ | _____ |
| 14. Human Physical Alteration to the Rest of the Polygon | _____ | _____ | _____ |
| 15. Natural Floodplain Accessibility | _____ | _____ | _____ |
| Soil / Hydrology Subtotal: | _____ | _____ | _____ |
| Overall Polygon Total: | _____ | _____ | _____ |

RATING CALCULATION

| (Actual Score/Possible Score) X 100 = Rating Percent | Descriptive Category |
|--|----------------------|
| Vegetation Rating: _____ / _____ x 100 = _____ | _____ |
| Soil / Hydrology: _____ / _____ x 100 = _____ | _____ |
| OVERALL: _____ / _____ x 100 = _____ | _____ |

WAYPOINT DATA/Polygon Boundary Descriptions

Polygon Number: _____ Record ID No: _____

E1. Detailed description of upper and lower ends and width (lateral boundaries) of the polygon (previously F28):

E2. NON-PHOTO WAYPOINTS related to polygon (lateral extent, weed patches, etc.)

TRIMBLE/GPS Unit #: _____ User Name:: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

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Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Polygon Number: _____ Record ID No: _____

PHOTOGRAPH DATA (Do not exceed 40 photos per polygon)

F1. Identification of photos (taken at the *Upstream* end of polygon):

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Benchmarks Upper End: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Upstream views/OUT of polygon

Photo #: Degrees: Downstream views/INTO polygon

F2. Identification of photos (taken at the *Downstream* end of polygon):

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Benchmarks Lower End: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Downstream views/OUT of polygon:

Photo #: Degrees: Upstream views/INTO polygon:

F3. Additional Photos and Locations:

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Photo Location 1: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Photo Location 2: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 3: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 4: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 5: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 6: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 7: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ **Camera Number:** _____ **TRIMBLE/GPS Unit #:** _____

Photo Location 8: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 9: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 10: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 11: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 12: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ **Camera Number:** _____ **TRIMBLE/GPS Unit #:** _____

Photo Location 13: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 14: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 15: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 16: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 17: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 18: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Photo Location 19: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 20: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

F3a. Additional LOTIC photo page entered? (Yes; No): _____

F4a. Is there an adjacent polygon *upstream* of this polygon? (Yes; No): _____ **F4b.** AdJ Polygon Name U/S: _____

F5a. Is there an adjacent polygon *downstream* of this polygon? (Yes; No): _____ **F5b.** AdJ Polygon Name D/S: _____

F6. Film and Camera Specs: Camera Type: _____ Film Speed(ASA)/Image Quality (dpi): _____

Lens dia. (mm): _____ Lens foc. len. (mm): _____ Filter used (polarizer or none): _____