

ALBERTA LOTIC WETLAND HEALTH ASSESSMENT  
FOR STREAMS AND SMALL RIVERS (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: \_\_\_\_\_ GPS Projection: \_\_\_\_\_

**B10b.** UTM coordinates of polygon Lower end: Easting: \_\_\_\_\_; Northing: \_\_\_\_\_; Zone: \_\_\_\_\_

**B10c.** UTM coordinates of any other point of interest in the polygon: East: \_\_\_\_\_; North: \_\_\_\_\_; Zone: \_\_\_\_\_

**B10d.** GPS Unit #: \_\_\_\_\_ WPt Upper: \_\_\_\_\_ WPt Lower: \_\_\_\_\_ WPt Other: \_\_\_\_\_

**B10e.** Comments: \_\_\_\_\_

**B11a.** Map Title(s): \_\_\_\_\_

**B11b.** Map Scale: \_\_\_\_\_ **B11c.** Map Year: \_\_\_\_\_

**B12.** Aerial Photo Info: Scale: \_\_\_\_\_ Date: \_\_\_\_\_ Job#: \_\_\_\_\_ Line#: \_\_\_\_\_  
AS#: \_\_\_\_\_ Photo#: \_\_\_\_\_ 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.** Does the polygon contain a defined streambank or channel? (Yes; No; NC): \_\_\_\_\_
- C5.** Polygon length (river miles, usually the same as channel length) (mi): \_\_\_\_\_ ; (km): \_\_\_\_\_
- C6.** Number of river miles the polygon represents: \_\_\_\_\_ ; (km): \_\_\_\_\_
- C7a.** Average polygon width (usually same as width of the riparian zone) (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_
- C7b.** Riparian zone width range (ft): \_\_\_\_\_ to \_\_\_\_\_ ; (m): \_\_\_\_\_ to \_\_\_\_\_

**C8. 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.): \_\_\_\_\_
- D5.** Detailed description of upper and lower ends and width (lateral boundaries) of the polygon:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET**

Polygon Number: \_\_\_\_\_ Data Record ID: \_\_\_\_\_

	Actual Score	Possible Score	Comment
1. Vegetative Cover of Floodplain and Streambanks	_____	_____	_____
2a. Total Canopy Cover of Invasive Plant Species	_____	_____	_____
2b. Density Distribution 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:	_____
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3. Disturbance-Increaser Undesirable Herbaceous Species	_____	_____	_____
4. Preferred Tree and Shrub Establishment and Regeneration	_____	_____	_____
5a. Browse Util. of Preferred Trees and Shrubs	_____	_____	_____
5b. Woody Veg. Removal other than Browsing	_____	_____	_____
6. Standing Decadent and Dead Woody Material	_____	_____	_____
<b>Vegetation Subtotal:</b>	_____	_____	_____
7. Streambank Root Mass Protection	_____	_____	_____
8. Human-Caused Bare Ground	_____	_____	_____
9. Streambank Structurally Altered	_____	_____	_____
10. Human Physical Alteration to the Rest of the Polygon	_____	_____	_____
11. Stream Channel Incisement	_____	_____	_____

**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 = _____	_____
<b>OVERALL:</b> _____ / _____ x 100 = _____	_____

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

