

**ALBERTA LOTIC WETLAND HEALTH ASSESSMENT  
FOR STREAMS AND SMALL RIVERS (Survey)**

Polygon No. \_\_\_\_\_ Record ID No: \_\_\_\_\_

**ADMINISTRATIVE DATA**

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- A1.** Field data collected by (Organisation): \_\_\_\_\_
- A2.** Funding Agency/Organisation: \_\_\_\_\_
- A3a.** Indian or Metis Reserve? (Yes; No): \_\_\_\_\_ If **Yes**, Reserve Name: \_\_\_\_\_
- A3b.** National or Provincial Park, Preserve, or Sanctuary? (Yes; No): \_\_\_\_\_  
If **Yes**, Name: \_\_\_\_\_
- A3c.** Environmental or Municipal Reserve (Exclude national or provincial reserves)? (Yes; No): \_\_\_\_\_  
If **Yes**, Name: \_\_\_\_\_
- A3d.** Private or Deeded Land? (Yes; No): \_\_\_\_\_ **A4.** Observers: \_\_\_\_\_
- A5a.** Date field data collected: \_\_\_\_\_ **A5b.** Year: \_\_\_\_\_ **A6a.** Grazing lease or grazing reserve? (Yes; No): \_\_\_\_\_  
If **Yes**, **A6b.** Grazing disposition No.: GRL: \_\_\_\_\_ GRP: \_\_\_\_\_  
FGL: \_\_\_\_\_ Other: \_\_\_\_\_
- A6c.** Other Grazing Name (e.g. Community Pasture): \_\_\_\_\_
- A7a.** Is this the latest inventory for this polygon? (Yes; No): \_\_\_\_\_
- A7b.** At least some part of this polygon has been inventoried more than once (resampled)? (Yes; No): \_\_\_\_\_  
If **No**, Go to item B1. If **Yes**, **A7c.** This polygon coincides exactly with another inventoried polygon? (Yes; No): \_\_\_\_\_  
If **No**, Go to item **A7f**. If **Yes**, **A7d.** Other years sampled: \_\_\_\_\_
- A7e.** ID No.(s) of other inventories of this exact polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A7f.** This polygon shares common area with other inventoried polygon(s), but is not exact? (Yes; No): \_\_\_\_\_
- A7g.** Other years: \_\_\_\_\_
- A7h.** ID No.(s) of other records sharing area with this polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A8a.** Has a change in management occurred? (Yes; No, Unknown): \_\_\_\_\_ If **Yes**, **A8b.** Year changed occurred: \_\_\_\_\_
- A8c.** Type of management change applied: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**LOCATION DATA**

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- B1.** Province: \_\_\_\_\_ **B2a.** Natural Region: \_\_\_\_\_ **B2b.** Sub-Region: \_\_\_\_\_
- B3.** County/Municipal District: \_\_\_\_\_ **B4a.** City/Town/Village: \_\_\_\_\_  
**B4b.** Subdivision Plan No.: \_\_\_\_\_ **B4c.** Block No.: \_\_\_\_\_ **B4d.** Lot No.: \_\_\_\_\_
- B5.** Allotment/Range Unit/Landowner/Lessee Name: \_\_\_\_\_
- B6.** Waterbody/Area Name: \_\_\_\_\_ **B7.** Polygon number: \_\_\_\_\_
- B8.** Location: 1/4 1/4 Sec: \_\_\_\_\_ 1/4 Sec: \_\_\_\_\_ Sec: \_\_\_\_\_  
Township (NS): \_\_\_\_\_ Range (EW): \_\_\_\_\_ Meridian: \_\_\_\_\_ **B9.** Elev. (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_
- B10a.** Major Watershed (e.g. North Saskatchewan River): \_\_\_\_\_
- B10b.** Minor Watershed (e.g. Battle River): \_\_\_\_\_
- B10c.** Minor Watershed Area (km<sup>2</sup>): \_\_\_\_\_ ; (hect): \_\_\_\_\_ **B10d.** Minor Watershed Perimeter (km): \_\_\_\_\_
- B10e.** Sub-basin (e.g. Iron Creek): \_\_\_\_\_
- B11a.** UTM coordinates of polygon UPPER END: Easting: \_\_\_\_\_ ; Northing: \_\_\_\_\_ ; Zone: \_\_\_\_\_
- B11b.** UTM coordinates of polygon LOWER END: Easting: \_\_\_\_\_ ; Northing: \_\_\_\_\_ ; Zone: \_\_\_\_\_
- B11c.** UTM coordinates of any other point of interest in the polygon: East: \_\_\_\_\_ ; North: \_\_\_\_\_ ; Zone: \_\_\_\_\_
- B11d.** GPS Unit #: \_\_\_\_\_ WPt Upper: \_\_\_\_\_ WPt Lower: \_\_\_\_\_ WPt Other: \_\_\_\_\_
- B11e.** Comments: \_\_\_\_\_
- B12a.** Map Title(s): \_\_\_\_\_
- B12b.** Map Scale: \_\_\_\_\_ **B12c.** Map Year: \_\_\_\_\_
- B13.** Aerial Photo Info: Scale: \_\_\_\_\_ Date: \_\_\_\_\_ Job#: \_\_\_\_\_ Line#: \_\_\_\_\_  
AS#: \_\_\_\_\_ Photo#: \_\_\_\_\_ Other Info: \_\_\_\_\_

**SELECTED SUMMARY DATA**

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

**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): \_\_\_\_\_

**C7.** Average polygon width (usually same as width of the riparian zone) (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_

**C8. Habitat Types And Community Types**

Classification Type Name	Phase	Pct of Poly	Successional Stage or Comments
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**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): \_\_\_\_\_

**D2.** Waterbody number (FMIS/Hydro code): \_\_\_\_\_

**D3a.** Is water quality data available on this waterbody? (Yes, No, Unknown, NA): \_\_\_\_\_

If **Yes**, **D3b.** Describe the reference for that data (name, year, etc.): \_\_\_\_\_

**PHOTOGRAPH DATA**

Data Record ID: \_\_\_\_\_

**E1. Identification of photos (taken at the *upstream* end of polygon):**

Photographer: \_\_\_\_\_

Camera Number: \_\_\_\_\_

Upstream Roll #: Photo #: Description:  
views: \_\_\_\_\_

Downstream  
views: \_\_\_\_\_

Other views: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E2. Is there an adjacent polygon *upstream* of this polygon? (Yes; No): \_\_\_\_\_**

**E3. Identification of photos (taken at the *downstream* end of polygon):** \_\_\_\_\_ Photographer: \_\_\_\_\_

Camera Number: \_\_\_\_\_

Upstream Roll #: Photo #: Description:  
views: \_\_\_\_\_

Downstream  
views: \_\_\_\_\_

Other views: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E4. Is there an adjacent polygon *downstream* end of this polygon? (Yes; No): \_\_\_\_\_**

**E5. Identification of additional photos taken outside of polygon (i.e., non-polygon photos):**

Roll #: Photo #: Description:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E6. Film and Camera Specs:** Film brand: \_\_\_\_\_ Film speed (ASA): \_\_\_\_\_ Lens dia. (mm): \_\_\_\_\_

Lens foc. len. (mm): \_\_\_\_\_

**LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET**

Data Record ID: \_\_\_\_\_

	Actual Score	Possible Score	Comment
1. Vegetative Cover of Floodplain and Streambanks	_____	_____	_____
2a. Invasive Plant Species Canopy Cover	_____	_____	_____
2b. Invasive Plant Species Density Distribution	_____	_____	_____

	Species	Can.Cov.	Dens.Dist.
List Invasive Plant Species present, including Percent Canopy Cover and Density Distribution Class:	1. _____	_____	_____
	2. _____	_____	_____
	3. _____	_____	_____
	4. _____	_____	_____
	5. _____	_____	_____

3. Disturbance-increaser Undesirable Herbaceous Species	_____	_____	_____
4. Tree and Preferred Shrub Species Establishment and Regeneration	_____	_____	_____
5. Utilization of Tree and Preferred Shrub Species	_____	_____	_____
6. Standing Decadent and Dead Woody Material	_____	_____	_____

**Vegetation Subtotal:** \_\_\_\_\_

7. Streambank Root Mass Protection	_____	_____	_____
8. Human-Caused Bare Ground	_____	_____	_____
9. Streambank Structurally Altered	_____	_____	_____
10. Pugging and/or Hummocking	_____	_____	_____
11. Stream Channel Incisement	_____	_____	_____

**Soil/Hydrology Subtotal:** \_\_\_\_\_

**Overall Polygon Total:** \_\_\_\_\_

12. Comments and Observations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**RATING CALCULATION**

(Actual Score/Possible Score) X 100 = Rating Percent	Descriptive Category
Vegetation Rating: _____ / _____ <b>x100 =</b> _____	_____
Soil / Hydrology: _____ / _____ <b>x100 =</b> _____	_____
<b>Total Rating:</b> _____ / _____ <b>x100 =</b> _____	_____

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

**ADDITIONAL MANAGEMENT CONCERNS (OPTIONAL)**

Data Record ID: \_\_\_\_\_

The following items do not contribute to a site's score. Rather they help to quantify inherent physical site characteristics or assess the direction of change on a site. These data can be useful for planning future site management.

13a. Streambank rock volume: \_\_\_\_\_

13b. Streambank rock size: \_\_\_\_\_

14. Vegetation use by animals: \_\_\_\_\_

15. Susceptibility of parent material to erosion: \_\_\_\_\_

16. Percent of streambank accessible to livestock: \_\_\_\_\_

17. Polygon trend (Is the polygon: Improving, Degrading, Static, or Status Unknown?): \_\_\_\_\_

18. Break down the polygon area into the land uses listed (must total to approx. 100%):

- No land use apparent: \_\_\_\_\_
- Turf grass (lawn): \_\_\_\_\_
- Tame pasture (grazing): \_\_\_\_\_
- Native pasture (grazing): \_\_\_\_\_
- Recreation (ATV paths, campsites, etc.): \_\_\_\_\_
- Development (buildings, corrals, paved lots, etc.): \_\_\_\_\_
- Tilled cropping: \_\_\_\_\_
- Perennial forage (e.g., alfalfa hayland): \_\_\_\_\_
- Roads: \_\_\_\_\_
- Logging: \_\_\_\_\_
- Mining: \_\_\_\_\_
- Railroads: \_\_\_\_\_
- Other: \_\_\_\_\_

Description of Other Usage Noted: \_\_\_\_\_  
\_\_\_\_\_

19. Break down the area adjacent to the polygon into the land uses listed (must total to approx. 100%):

- No land use apparent: \_\_\_\_\_
- Turf grass (lawn): \_\_\_\_\_
- Tame pasture (grazing): \_\_\_\_\_
- Native pasture (grazing): \_\_\_\_\_
- Recreation (ATV paths, campsites, etc.): \_\_\_\_\_
- Development (buildings, corrals, paved lots, etc.): \_\_\_\_\_
- Tilled cropping: \_\_\_\_\_
- Perennial forage (e.g., alfalfa hayland): \_\_\_\_\_
- Roads: \_\_\_\_\_
- Logging: \_\_\_\_\_
- Mining: \_\_\_\_\_
- Railroads: \_\_\_\_\_
- Other: \_\_\_\_\_

Description of Other Usage Noted: \_\_\_\_\_  
\_\_\_\_\_