

ALBERTA LENTIC WETLAND HEALTH ASSESSMENT (Survey)

Record ID No: _____

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
 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: _____
- 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 N/E/S/W END: _____ Easting: _____ ; Northing: _____ ; Zone: _____
- B10b.** UTM coordinates of polygon N/S/E/W END: _____ Easting: _____ ; Northing: _____ ; Zone: _____
- B10c.** TRIMBLE/GPS Unit #: _____ WPT END N/E/S/W: _____ WPT END N/E/S/W: _____
- 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. Does the polygon contain a defined shoreline? (Yes; No; NC): _____

C5. Polygon length (mi): _____ ; (km): _____ **C6.** Number of miles the polygon represents: _____ ; (km): _____

C7a. Average polygon width (ft): _____ ; (m): _____

C7b. Polygon wetland 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 PHYSICAL 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): _____

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.): _____

D4. Detailed description of upper and lower ends and width (lateral boundaries) of the polygon:

LENTIC WETLAND HEALTH ASSESSMENT SCORE SHEET

Record ID No: _____

Polygon Number: _____

	Actual Score	Possible Score	Comment
1. Vegetative Cover of the Polygon	_____	_____	_____
2a. Invasive Plant Species Canopy Cover	_____	_____	_____
2b. Invasive Plant Species Density Distribution	_____	_____	_____

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 (LINAVUL):	_____	_____
			ox-eye daisy (CHRYLEU):	_____	_____	Others:	_____	_____

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

2d. If **Yes**, indicate species, elevated status, CC and DD: _____

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. Human Alteration of Polygon Vegetation	_____	_____	_____

Vegetation Subtotal: _____

7a. Percent of Polygon Physical Site Altered By Human Activity	_____	_____	_____
7b. Severity of Human-Caused Alteration of Polygon Physical Site	_____	_____	_____
8. Human-Caused Bare Ground	_____	_____	_____
9. Degree of Artificial Change of Water Level	_____	_____	_____

Soil/Hydrology Subtotal: _____

Overall Polygon Total: _____

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

RATING CALCULATION

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

Descriptive Category

Vegetation Rating: _____ / _____ x 100 = _____

Soil / Hydrology Rating: _____ / _____ x 100 = _____

OVERALL: _____ / _____ x 100 = _____

ADDITIONAL MANAGEMENT CONCERNS (OPTIONAL)

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.

10a. Polygon trend: Improving, Degrading, Static, or Status Unknown? _____
(If “status unknown” answer NA to the sub-questions 10b and 10c)

10b. Has management influenced trend? (Yes; No; Unknown; NC; NA): _____

10c. Describe how health parameters have changed and justify your call.

11. Overflow structure stability: _____
 Overflow structure location: _____

12a. Shoeline rock volume: _____

12b. Shoreline rock size: _____

13. Vegetation use by animals: _____

14. Susceptibility of parent material to erosion: _____

15. Percent of shoreline accessible to large animals: _____

16. Quantify the percent of tree and shrub cover on the polygon that is dead and/or decadent: _____

17. Primary Land Use Sector (CHOOSE ONLY ONE):

- Acreage (excl. other types listed)
- Agriculture
- Commercial
- Energy (Oil, Gas, Coal)
- Forestry
- Habitat and Conservation Protection
- Industrial (excl. other types listed)
- Institutional
- Lakefront/Waterfront (excl. other types listed)
- Military
- Multi Land Use
- Open/Vacant
- Parks/Protected Areas
- Recreation (excl. other types listed)
- Residential (excl. other types)
- Rural Residential (excl. other types listed)
- Transportation
- Utility
- Other _____

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

	a) Polygon	b) Adjacent
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. Comments and Observations:

WAYPOINT DATA/Polygon Boundary Descriptions

E1. 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: _____

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Waypoint Description: _____

PHOTOGRAPH DATA (Do not exceed 40 photos per polygon)

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

F1a. Benchmark photos (taken at the centre, north, east, south or west end of the polygon): _____
(Only record center photo in G1)

F1b. Inner benchmark (taken at edge of open water or emergent vegetation if accessible and applicable):

Benchmark Waypoint (BI): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

- _____ View _____
- _____ View _____
- _____ View _____
- _____ View _____

Photo #: **INTO** Polygon (describe view):

- _____ View _____
- _____ View _____
- _____ View _____
- _____ View _____

F1c. Secondary inner benchmark if needed; taken at future repeatable location:

If centre photo taken in G1, include location on polygon of secondary benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BM): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

- _____ View _____
- _____ View _____
- _____ View _____
- _____ View _____

Photo #: **INTO** Polygon (describe view):

- _____ View _____
- _____ View _____
- _____ View _____
- _____ View _____

F1d. Lateral benchmark (benchmarks taken at the lateral extent of the polygon):

If centre photo taken in G1, include location on polygon of lateral benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BL): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

- _____ View _____
- _____ View _____
- _____ View _____
- _____ View _____

Photo #: **INTO** Polygon (describe view):

- _____ View _____
- _____ View _____
- _____ View _____
- _____ View _____

Polygon Number: _____ Record ID No: _____

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

F2a. Benchmark photos (taken at the north, east, south or west end of the polygon): _____

F2b. Inner benchmark (taken at edge of open water or emergent vegetation if accessible and applicable):

Benchmark Waypoint (BI): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

F2c. Secondary inner benchmark if needed; taken at future repeatable location:

If centre photo taken in G1, include location on polygon of secondary benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BM): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

F2d. Lateral benchmark (benchmarks taken at the lateral extent of the polygon):

If centre photo taken in G1, include location on polygon of lateral benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BL): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

F3a. Is there an adjacent polygon north and/or west of this polygon ? (Yes; No): _____ **F3b.** Adj. polygon name N/W: _____

F4a. Is there an adjacent polygon south and/or east of this polygon ? (Yes; No): _____ **F4b.** Adj. polygon name S/E: _____

F5. 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:

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:

Polygon Number: _____ Record ID No: _____

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

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

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

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:

F6. Additional LENTIC photo page entered (Yes: No): _____ Lens filter used: _____