

ALBERTA LENTIC WETLAND INVENTORY FORM

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?:
A6b. choose category:
A6c. How was this site chosen?:
A7a. Park(s)? (Yes; No):
A7b. Please Check all that apply:
A7c. Name?
A8a. Other Protected Areas? (Yes; No):
A8b. Please check all that apply:
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.:
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):
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:
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 North/West END:
B10b. UTM coordinates South/East END:
B10c. UTM coordinates of any other point of interest in the polygon:
B10d. GPS Unit #:
B10e. Comments:
B11a. Map Title(s):
B11b. Map Scale:
B11c. Map Year:
B12. Aerial Photo Info:
AS#:
Photo#:
Other Info:

SELECTED SUMMARY DATA

C1. Wetland/waterbody type: _____ **C2.** Polygon size (ac): _____ ; (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 (mi): _____ ; (km): _____
C7a. Average polygon width (ft): _____ ; (m): _____
C7b. Polygon width range (ft): _____ to _____ ; (m): _____ to _____

Health Assessment Summary

C8. Polygon Health: Rating Percent (%) _____ Descriptive Category: _____
 Vegetation: _____
 Soil / Hydrology: _____
OVERALL: _____

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

VEGETATION DATA

D1a. Wetland prevalence index: _____
D1b. Vegetation Structural Diversity: _____

Trees

D2a. Are trees present? (Yes; No): _____ **D2b.** Tree species by canopy cover (%) and percent age group (%)

SPECIES	COV (%)	SDLG/DEC	SPLG/DEC	POLE/DEC	MAT/DEC	DEAD
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

SPECIES	D3. Regeneration Category	D4. Age Group Distribution Category	D5a. Seedling/Sapling Browse Utilization
_____	_____	_____	_____
_____	_____	_____	_____

D5b. Cottonwood/poplar regeneration by seed vs. root suckering (asexual). Record the percent for each (must total 100%; NA = Not Applicable):

Species	Seed	Suckering	Species	Seed	Suckering	Species	Seed	Suckering
POPUANG	_____	_____	POPUBAL	_____	_____	POPUDEL	_____	_____

Shrubs

Polygon Number: _____ Record ID No: _____

D6a. Are shrubs present? (Yes; No): _____

D6b. Does the polygon have potential for preferred woody species ? (Yes; No; NC): _____

D6c. Shrub species canopy cover (%), age/size groups (%), and utilisation

D6d. Shrub Growth Form (N,F,U,C)

SPECIES	COV (%)	SDLG-SPLG/UTIL	MATURE/UTIL	DEC-DEAD/UTIL	
_____	_____	_____	_____	_____	_____

D6e. Tree **AND** shrub removal by other than browse: None (0-5%); Light (6-25%); Moderate (26-50%); Heavy (>50%); NA; NC: _____ (new 2008)

D6f. Tree **AND** shrub removal other than browse - check cause of removal (new 2015):

- Beaver**
- Human**
- Both (Beaver & Human)**

D6g. Basis of Call: _____
(new 2008)

D7. Graminoids

Graminoids present?
(Yes; No): _____

SPECIES	COV (%)
_____	_____

D8. Forbs

Forbs present?
(Yes; No): _____

SPECIES	COV (%)
_____	_____

Polygon Number: _____ Record ID No: _____

D9. Plant Group by Canopy Cover (%)

Layer	Trees	Shrubs	Graminoids	Forbs
3 (>6.0 ft):	_____	_____	_____	_____
2 (>1.5 - 6.0 ft):	_____	_____	_____	_____
1 (0 - 1.5 ft):	_____	_____	_____	_____

D10. Total canopy cover (%) by lifeform:

Trees: _____ Shrubs: _____
Graminoids: _____ Forbs: _____

D11. Total canopy cover (%) by woody species: _____

D12. Total canopy cover (%) by all plant lifeforms: _____

Weed Data

D13a. Are invasive species present ? (Yes; No; NC): _____

If **Yes, D13b.** Enter the Canopy Cover and the Density/Distribution Class for each of the following invasive species:

	Canopy Cover	Density/Distribution Class
blueweed (ECHIVUL):	_____	_____
Canada thistle (CIRSARV):	_____	_____
caragana (CARAARB):	_____	_____
cleavers (GALIAPA):	_____	_____
common burdock (ARCTMIN):	_____	_____
common hound's-tongue (CYNOOFF):	_____	_____
common tansy (TANAVUL):	_____	_____
Dalmatian Toadflax (LINADAL):	_____	_____
diffuse knapweed (CENTDIF):	_____	_____
downy chess (BROMTEC):	_____	_____
European buckthorn (RHAMCAT):	_____	_____
field bindweed (CONVARV):	_____	_____
leafy spurge (EUPHESU):	_____	_____
nodding thistle (CARDNUT):	_____	_____
ox-eye daisy (CHRYLEU):	_____	_____
perennial sow-thistle (SONCARV):	_____	_____
purple loosestrife (LYTHSAL):	_____	_____
Russian knapweed (CENTREP):	_____	_____
Russian olive (ELAEANG):	_____	_____
scentless chamomile (MATRPER):	_____	_____
smooth perennial sow-thistle (SONCULI):	_____	_____
spotted knapweed (CENTMAC):	_____	_____
tall buttercup (RANUACR):	_____	_____
tamarisk/salt cedar (TAMACHI):	_____	_____
white cockle (SILEPRA):	_____	_____
yellow toadflax (LINAVAL):	_____	_____
Others: _____	_____	_____
Others: _____	_____	_____

D13c. Cumulative totals for all invasive species:

Canopy Cover: _____ Density/Distribution Class: _____

D13d. In this polygon, Are there elevated status species for this county? (Yes; No; NC):

D13e. If yes, indicate species, elevated status, CC and DD

ElevatedSpecies:	Status	CC	DD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

D14a. Are undesirable herbaceous species present? (Yes; No; NC): _____ If **Yes, D14b.** Record the combined canopy cover (%) of all undesirable herbaceous species observed: _____

D15. Habitat Types and Community Types			
Classification Type Name	Phase	Percent of Polygon	Successional Stage or Comments/Guides Used
_____	_____	_____	_____
_____	_____	_____	_____

D16a. Polygon trend: Improving, Degrading, Static, or Status Unknown? _____

(If "status unknown" answer NA to the sub-questions D16b and D16c)

D16b. Has management influenced trend? (Yes; No; Unknown; NC; NA): _____

D16c. Describe how health parameters have changed and justify your call.

D17. Explain trend description and give other vegetation comments:

WATER QUALITY DATA

Polygon Number: _____ Record ID No: _____

E1. Waterbody number (FMIS/Hydro code): _____

E2a. Is water quality data available on this waterbody? (Yes, No, Unknown, NA): _____

If **Yes, E2b.** Describe the reference for that data (name, year, etc.): _____

PHYSICAL SITE DATA

F1. What is the primary water source on the polygon? (Perennial stream, Overland surface flow, Springs/seeps, Topographic contact with groundwater table, Unknown, Other): _____ Explain Other: _____

F2. Is the water body in a closed basin with no outlet? (Yes, No, NA, NC): _____

F3. Describe the water chemistry (Alkaline/Saline; Fresh, Unknown, NC): _____

F4a. Degree of artificial change of water level (Not Subjected, Minor, Moderate, Extreme, NC): _____

F4b. Basis of call: _____

F5a. Is there an overflow structure? (Yes, No, NA, NC): _____

If **Yes, F5b.** Indicate type (Concrete, Pipe, Rock Armored, Unprotected, Other): _____

Explain "Other": _____

F5c. Does the overflow structure appear stable? (Yes, No, NA, NC): _____ Stability Category: _____

Explain: _____

F5d. Location of overflow structure on waterbody: _____

F6a. Does the Polygon Contain a defined shoreline? (Yes; No; NC): _____ If **No**, Skip to item F8 below.

If **Yes, F6b.** Are shoreline mineral substrates visible? (Yes; No; NC): _____

If **Yes, F6c.** Give the percent of each size (total must approx. 100%):

_____ >20 inches (Medium Boulders +) _____ 2.5 - 5 inches (Small Cobbles) _____ 0.062 mm - 2 mm (Sand)

_____ 10 - 20 inches (Small Boulders) _____ 0.6 - 2.5 inches (Coarse Gravel) _____ <0.062 mm (Silt and Clay)

_____ 5 - 10 inches (Large Cobbles) _____ 0.08 inches - 0.6 inches (Fine Gravel)

F7. Percent of the shoreline with deep, binding root mass (0-35%; 36-65%; 66-85%; over 85%; NA; NC): _____

F8. Is there alteration of the polygon vegetation by human activities (Yes; No; NC)? _____

F8a. What percent of the polygon vegetation has been altered by human activities? _____

F8b. Breakdown the causes of human-caused alteration to the polygon vegetation (must approx. 100%):

_____ Grazing _____ Logging _____ Cottage or Urban Devel. _____ Recreation _____ Other

_____ Cultivation _____ Mining _____ Construction _____ Dugout

Explain "Other": _____

F8c. Breakdown the kinds of human-caused alteration to the polygon vegetation (must approx. 100%):

_____ Clearing _____ Replace Native to Non-native Species _____ Other

_____ Replace Tall to Short _____ Replace Woody to Herbaceous

Explain "Other": _____

F8d. Comment on the nature and extent of human-caused alteration to the vegetation:

F9a. Is there physical alteration of the polygon by human activities (Yes; No; NC)? _____ If **No**, go to F9e.

F9b. What percent of the polygon has been physically altered by human activities (aside from the vegetation)? _____

F9c. Breakdown the causes of human-caused alteration to the physical polygon site (must approx. 100%):

_____ Grazing _____ Logging _____ Cottage or Urban Devel. _____ Recreation _____ Dugout

_____ Cultivation _____ Mining _____ Roads and Railroads _____ Water Management _____ Other

Explain "Other": _____

F9d. Breakdown the kinds of human-caused alteration to the physical polygon site (must approx. 100%):

_____ Soil Compaction (hum-pug, trails, paths, wallows, etc.) _____ Hydrologic Change (ditching, draining, flooding, etc.)

_____ Human Impervious Surface (pavement, roofs, walks, etc.) _____ Topographic Change (landscaping)

_____ Bank Alteration (hoof shear, riprap, berms, etc.) _____ Plowing/tilling _____ Other

Explain "Other": _____

F9e. Choose a category to describe the severity of the alteration recorded in F9a. (None, Slight, Moderate, Severe): _____

F9f. Comment on any odd or unusual aspect of human-caused alteration to the physical polygon:

F10a. Is there exposed soil surface (bare ground) in the polygon? (Yes; No; NC): _____

If **Yes**, complete items F10b-d; if No or NC, go to item F11.

F10b. What percent of the polygon which is exposed soil surface (bare ground): _____

F10c. Of this, how much is due to Natural Processes: _____ Human-caused disturbance: _____ (must approx. 100%)

F10d. Within each category (natural and human-caused), how much resulted from the listed processes?

NATURAL PROCESSES (must approx. 100%)

- _____ Erosional _____ Type Dependent
- _____ Depositional _____ Saline/Alkaline
- _____ Wildlife Use _____ Natural Drawdown Area
- _____ Other

HUMAN-CAUSED PROCESSES (must approx. 100%)

- _____ Grazing _____ Mining
- _____ Cultivation _____ Construction
- _____ Timber Harvest _____ Recreation
- _____ Other _____ Vehicle Trails

Explain "Other": _____

F11. Non-vegetated (i.e., vascular plant) ground cover.

Rocks (>2.5 in.): _____ Moss: _____ Litter/Duff: _____ Wood: _____ Human Imperv. Surf.: _____

Young/Dead Plantings: _____ Other: _____

Explain "Other": _____

F12a. Animal-caused pugging and/or hummocks present? (Yes; No; NC): _____

If **Yes, F12b.** Percent (%) of polygon affected: _____

F13a. Are side drainages and hillslopes contributing to degradation of the system? (Yes; No; NA; NC): _____

If **Yes, F13b.** Human-caused? (Yes; No; NA; NC): _____ Causes: _____

F13c. Natural cause? (Yes; No; NA; NC): _____ List major soil type: _____

F14. Is water quality sufficient to support wetland plants? (Yes; No; NA; Unknown; NC): _____

F15. Is open surface water standing on the polygon? (Yes; No; NA; NC): _____ If **Yes**, What percent of the polygon area? _____

F16. Are chemicals that affect plant productivity/composition (i.e., salts) accumulating on the site? (Yes; No; NA; NC): _____

F17. Comments (Summarize unique characteristics or problems not evident from the data collected. Include topics related to any of the optional data. Consider current and historic attributes resulting from human-caused and natural processes.):

F18. Detailed description of the polygon boundaries if it does not include the entire wetland area at the site:

PHOTOGRAPH DATA

Polygon Number: _____ Record ID No: _____

G1a. Identification of photos (taken at the **north or west** end of polygon): Photographer: _____

Inner Boundary (at water's edge) Photo #: OUT of polygon (Describe View) Camera Number: _____

Waypoint: Easting Northing Zone INTO the polygon (Describe View)

G1b. Identification of an additional benchmark photos:

Outer Boundary (inland) Photo #: OUT of polygon (Describe View)

Waypoint: Easting Northing Zone INTO polygon (Describe View)

G2a. Identification of photos (taken at the **south or east** end of polygon): Photographer: _____

Inner Boundary (at water's edge) Photo #: OUT of polygon (Describe View) Camera Number: _____

Waypoint: Easting Northing Zone INTO the polygon (Describe View)

G2b. Identification of an additional benchmark photos:

Outer Boundary (inland) Photo #: OUT of polygon (Describe View)

Waypoint: Easting Northing Zone INTO polygon (Describe View)

G3a. Other photos of the polygon: Photographer: _____

Waypoint:	Easting	Northing	Zone	Photo #	Description	Camera Number:
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

G3b. Additional Lentic photo page entered? (Yes; No): _____

G4a. Is there an adjacent polygon **north and/or west** of this polygon? (Yes; No): _____ **G4b.** Adj. Polygon Name N/W: _____

G5a. Is there an adjacent polygon **south and/or east** of this polygon? Yes; No): _____ **G5b.** Adj. Polygon Name S/E: _____

G6. Film and Camera Specs: Camera Type: _____ Film Speed(ASA)/Image Quality (dpi): _____
Lens dia. (mm): _____ Lens foc. len. (mm): _____ Filter used (polarizer or none): _____

ADDITIONAL DATA

H1. Vegetative use by animals (0-25%; 26-50%; 51-75%; 76-100%): _____

H2. Adjacent uplands (Cropland; Grassland; Shrubland; Forest; or Other): _____

H2b. Describe adjacent uplands "Other": _____

H3. Primary Land Use Sector:

H4a 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
___ Agriculture		
___ Commercial	No land use apparent: _____	_____
___ Energy (Oil, Gas, Coal)	Turf grass (lawn): _____	_____
___ Industrial (excl. other types listed)	Tame pasture (grazing): _____	_____
___ Forestry	Native pasture (grazing): _____	_____
___ Recreation (excl. other types listed)	Recreation (ATV paths, campsites, etc.): _____	_____
___ Habitat and conservation Protection	Development (buildings, corrals, paved lots, etc.): _____	_____
___ Parks/Protected Areas	Tilled Cropping: _____	_____
___ Residential (excl. other types)	Perennial forage (e.g., alfalfa hayland): _____	_____
___ Rural Residential (excl. other types listed)	Roads: _____	_____
___ Acreage (excl. other types listed)	Logging: _____	_____
___ Lakefront/Waterfront (excl. other types listed)	Mining: _____	_____
___ Transportation	Railroads: _____	_____
___ Utility	Other: _____	_____
___ Institutional		
___ Military		
___ Open/Vacant		
___ Other _____	Description of Other Usage Noted: _____	

H5. Percent of polygon area accessible to large animals: _____

H6a. If the polygon has a bank, has the bank profile been modified by construction? (Yes; No; NC, NA): _____

If **Yes, H6b.** How much of the bank length is modified (%)? _____

H6c. What part resulted from the various sources: (must approx. 100%)

Dikes _____	Road Construction _____	Railroads _____
Berm s _____	Water Diversion Structures _____	Mining _____
Dams _____	Vegetation Removal _____	Bridges _____
Rip-rap _____	Channelization _____	Logging _____
Other _____	Explain "Other": _____	

H6d. Location(s): _____

Waterfowl Data

H7a. Were waterfowl nests or broods observed? (Yes; No; NC): _____

If **Yes, H7b.** Describe: _____

Fishery Data

H8a. Does the polygon contain a fishery? (Yes; No; Unknown): _____

If **Yes, H8b.** Is it a sport fishery, non-sport fishery, or unknown: _____

H8c. Fish types present, if known (use common names or descriptions): _____

H8d. How many fish were observed? (0; 1-10; 11-50; >50): _____

H8e. If the polygon does not contain a fishery, is there potential for one? (Yes; No; Unknown): _____

Explain: _____

Amphibian and Reptile Data

H9a. Were amphibians observed? (Yes; No; NC): _____ If **Yes, H9b.** How many?: Frogs: _____ Toads: _____ Salamanders: _____

H10a. Were reptiles observed? (Yes; No; NC): _____ If **Yes, H10b.** How many?: Snakes: _____ Turtles: _____ Lizards: _____

H11. List amphibian or reptile species and the quantity of each identified in the polygon.

Spp. #1: _____ No.: _____ Loc.: _____
Spp. #2: _____ No.: _____ Loc.: _____
Spp. #3: _____ No.: _____ Loc.: _____
Spp. #4: _____ No.: _____ Loc.: _____

Beaver Data

H12a. Is there evidence of beaver in the polygon? (Yes; No; NC) _____

If **Yes, H12b.** (Active; Inactive): _____

H12c. Describe the type and amounts of beaver activity observed:

H12d. # of beaver dams: _____ # of beaver dams: _____ Old (prior to 2015 combined: dams and lodges): _____

H12e. Level of beaver activity (number of stems chewed) (1-25; 26-100; over 100; NC): _____

H12f. How many beavers were observed? _____

Where? _____

Threatened and Endangered Species Data

H13a. Were Threatened and Endangered animal species observed? (Yes; No; NC): _____

H13b. Species observed:	Species	Number	Species	Number
	_____	_____	_____	_____
	_____	_____	_____	_____

H13c. Location in polygon where Threatened and Endangered animals or nests were sighted:

Notable Bird Observations (Other than Waterfowl)

H14. Were notable bird species (other than waterfowl) seen? (Yes; No; NC): _____

Spp. #1: _____ No.: _____ Loc.: _____
Spp. #2: _____ No.: _____ Loc.: _____
Spp. #3: _____ No.: _____ Loc.: _____
Spp. #4: _____ No.: _____ Loc.: _____
Spp. #5: _____ No.: _____ Loc.: _____
Spp. #6: _____ No.: _____ Loc.: _____
Spp. #7: _____ No.: _____ Loc.: _____
Spp. #8: _____ No.: _____ Loc.: _____
Spp. #9: _____ No.: _____ Loc.: _____
Spp. #10: _____ No.: _____ Loc.: _____
Spp. #11: _____ No.: _____ Loc.: _____
Spp. #12: _____ No.: _____ Loc.: _____

Rare Plant Observations

H15. Were rare plant species observed on the polygon? (Yes; No; NC): _____

Spp. #1: _____ No.: _____ Loc.: _____
Spp. #2: _____ No.: _____ Loc.: _____
Spp. #3: _____ No.: _____ Loc.: _____

H16. Additional Comments:

