

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 of polygon Upper end:
B10b. UTM coordinates of polygon Lower 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: _____

D6f. Basis of Call: _____

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: _____

| 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 | _____ Timber Harvest | _____ Cottage or Urban Devel. | _____ Recreation |
| _____ Cultivation | _____ Mining | _____ Construction | _____ Other |

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 | _____ Timber Harvest | _____ Cottage or Urban Devel. | _____ Recreation | _____ Other |
| _____ Cultivation | _____ Mining | _____ Roads and Railroads | _____ Water Management | |

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:

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

