

ALBERTA LOTIC WETLAND INVENTORY FORM

Polygon Number: Record ID No:

ADMINISTRATIVE DATA

A1. Field Data Collected by (Organization):
A2. Funding Agency/Organization:
A3. Date Field Data Collected: A4. Year: A5. Observers:
A6a. Indian or Metis Reserve? (Yes; No): A6b. Reserve Name:
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 Municipal Environmental Other
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:

LOCATION DATA

B1. Province: B2. County/Municipal District:
B3a. City/Town/Village: B3b. SubdivPlan #: B3c. Block #: B3d. Lot #:
B4. Waterbody Name:
B5. Polygon number: B6. Side of Waterbody:
B7. Legal Land Locatio 1/4 1/4 Sec: 1/4 Sec: Section: Township (NS): Range (EW): Meridian:
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**

Polygon Number: \_\_\_\_\_ 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.** Channel length (mi): \_\_\_\_\_; (km): \_\_\_\_\_ **C6.** Number of river miles the polygon represents: (mi) \_\_\_\_\_; (km): \_\_\_\_\_

**C7a.** Average polygon width (usually same as width of the riparian zone) (ft): \_\_\_\_\_; (m): \_\_\_\_\_

**C7b.** Riparian zone 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
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SPECIES	<b>D3.</b> Regeneration Category	<b>D4.</b> Age Group Distribution Category	<b>D5a.</b> Seedling/Sapling Browse Utilization
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**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
<b>3</b> (>6.0 ft):	_____	_____	_____	_____
<b>2</b> (>1.5 - 6.0 ft):	_____	_____	_____	_____
<b>1</b> (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
bladder campion (SILECUS):	_____	_____
blueweed (ECHIVUL):	_____	_____
Canada thistle (CIRSARV):	_____	_____
caragana (CARAARB):	_____	_____
cleavers (GALIAPA):	_____	_____
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):	_____	_____
spreading dogbane (APOCAND):	_____	_____
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.** Are there elevated status species for this county?  
(Yes; No; NC): \_\_\_\_\_

Elevated Spp. 1: \_\_\_\_\_

Elevated Spp. 2: \_\_\_\_\_

Elevated Spp. 3: \_\_\_\_\_



**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.** Does the polygon contain a stream bank or channel bottom? (Yes; No; NC): \_\_\_\_\_ If **No**, go to item **F15a**.

**F2a.** Is the channel bottom visible? (Yes; No; NC): \_\_\_\_\_

If **Yes, F2b.** Give the percent breakdown of particle sizes (must approx. 100%):

_____ >20 inches (Medium Boulders +)	_____ 0.6 - 2.5 inches (Coarse Gravel)
_____ 10 - 20 inches (Small Boulders)	_____ 0.08 inches - 0.6 inches (Fine Gravel)
_____ 5 - 10 inches (Large Cobbles)	_____ 0.062 mm - 2 mm (Sand)
_____ 2.5 - 5 inches (Small Cobbles)	_____ <0.062 mm (Silt and Clay)

**F3a.** Is the channel bank material visible? (Yes; No; NC): \_\_\_\_\_

If **Yes, F3b.** Give the percent breakdown of particle sizes (must approx. 100%):

_____ >20 inches (Medium Boulders +)	_____ 0.6 - 2.5 inches (Coarse Gravel)
_____ 10 - 20 inches (Small Boulders)	_____ 0.08 inches - 0.6 inches (Fine Gravel)
_____ 5 - 10 inches (Large Cobbles)	_____ 0.062 mm - 2 mm (Sand)
_____ 2.5 - 5 inches (Small Cobbles)	_____ <0.062 mm (Silt and Clay)

**F4a.** Is there active lateral cutting of stream? (Yes; No; NC): \_\_\_\_\_

If **Yes, F4b.** How much of the stream length displays active lateral cutting (%): \_\_\_\_\_

**F5.** Percent of the total bank length unstable (0-5%; 6-25%; 26-50%; over 50%; NC): \_\_\_\_\_

**F6a.** Is the streambank altered by on-site human activities? (Yes; No; NC): \_\_\_\_\_

If **Yes, F6b.** Percent (%) of the bank length that has human-caused alterations? \_\_\_\_\_

**F6c.** Of this, how much resulted from these causes: (must approximate 100%)

_____ Grazing	_____ Mining	_____ Construction	_____ Other
_____ Cultivation	_____ Timber Harvest	_____ Recreation	

Explain "other": \_\_\_\_\_

**F6d.** Distribute the total streambank alteration among these kinds: (must approximate 100%)

_____ Hoof shear/trampling	_____ Roads/RRs	_____ Berms	_____ Other
_____ Veg removal	_____ Trails	_____ Riprap	

Explain "other": \_\_\_\_\_

**F7.** Percent of the streambanks with deep, binding root mass (0-35%; 36-65%; 66-85%; over 85%; NC): \_\_\_\_\_

**F8.** Percent of polygon with sufficient fine material to hold water and act as a rooting medium (0-35%; 36-65%; 66-85%; over 85%; NC): \_\_\_\_\_

**F9.** Average non-vegetated stream channel width: (ft) \_\_\_\_\_ ; (m): \_\_\_\_\_ **F10.** Stream gradient (percent): \_\_\_\_\_

**F11a.** Active downcutting of the stream? (Yes; No; NC): \_\_\_\_\_ If **Yes, F11b.** Percent of stream actively downcutting: \_\_\_\_\_

**F12a.** Headcuts present? (Yes; No; NC): \_\_\_\_\_ If **Yes, F12b.** No. of headcuts: \_\_\_\_\_ **F12c.** Average headcut height (ft): \_\_\_\_\_

**F12d.** Location of headcut(s): \_\_\_\_\_

**F13a.** Is the stream channel braided (has multiple active channels during normal flows)? (Yes; No; NC): \_\_\_\_\_

If **Yes, F13b.** Percent of the stream channel that is braided: \_\_\_\_\_

**F14.** Indicate the best description of channel incisement (None; Slight; Moderate; Severe): \_\_\_\_\_

**F15a.** Is there exposed soil surface (bare ground)? (Yes; No; NC): \_\_\_\_\_ If **No** or **NC**, go to item **F16**.

**F15b.** Percent (%) of the polygon which is exposed soil surface (bare ground): \_\_\_\_\_

**F15c.** Of this, how much is due to natural processes: \_\_\_\_\_ Human-caused disturbance: \_\_\_\_\_ (must approx. 100%)

**F15d.** Within **each** category (natural and human-caused), how much resulted from the listed processes?

**NATURAL PROCESSES** (must approx. 100%)

**HUMAN-CAUSED PROCESSES** (must approx. 100%)

_____ Erosional	_____ Type Dependent	_____ Grazing	_____ Construction
_____ Depositional	_____ Saline/Alkaline	_____ Timber Harvest	_____ Mine tailings
_____ Wildlife Use	_____ Within Veg. Channel Bottoms	_____ Recreation	_____ Other
_____ Other	Explain "Other": _____		





**ADDITIONAL DATA**

Polygon Number: \_\_\_\_\_ Record ID No: \_\_\_\_\_

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

**H2.** Adjacent uplands (Cropland; Grassland; Shrubland; Forest; or Other): \_\_\_\_\_

**H3.** Break down the polygon into percentages of the area in 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: \_\_\_\_\_  
\_\_\_\_\_

**H4.** 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: \_\_\_\_\_  
\_\_\_\_\_

**H5a.** Do available maps accurately represent the sinuosity of the stream? (Yes; No; NA; NC): \_\_\_\_\_

If **No**, **H6b.** Determine sinuosity in the field; If **Yes**, determine sinuosity in the office from topo map: \_\_\_\_\_

**H6.** Percent of streambank physically accessible to large animals: \_\_\_\_\_

**H7a.** Has the bank configuration or channel profile been modified by construction? (Yes; No; NC): \_\_\_\_\_

If **Yes**, **H7b.** How much of the bank or channel length is modified (%)? \_\_\_\_\_

**H7c.** 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": _____           |                 |

**H7d.** Location(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**H7e.** If human-caused channel modifications are present, are they stable? (Stable; Unstable): \_\_\_\_\_

**H7f.** What is the effect of the modifications on the immediate and downstream channel?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**H8.** Rosgen stream types recorded and the percent of the stream length accounted for by each:

Rosgen 1: \_\_\_\_ / \_\_\_\_ Rosgen 2: \_\_\_\_ / \_\_\_\_ Rosgen 3: \_\_\_\_ / \_\_\_\_ Rosgen 4: \_\_\_\_ / \_\_\_\_

**Waterfowl Data**

Polygon Number: \_\_\_\_\_ Record ID No: \_\_\_\_\_

**H9a.** Were waterfowl nests or broods observed? (Yes; No; NC): \_\_\_\_\_

If **Yes, H9b.** Describe: \_\_\_\_\_

**Fishery Data**

**H10a.** Does the polygon contain a fishery? (Yes; No; Unknown): \_\_\_\_\_

If **Yes, H10b.** Is it a sport fishery, non-sport fishery, or unknown: \_\_\_\_\_

**H10c.** Fish types present, if known (use common names or descriptions): \_\_\_\_\_

**H10d.** How many fish were observed? (0; 1-10; 11-50; >50): \_\_\_\_\_

**H10e.** If the polygon does not contain a fishery, is there potential for one? (Yes; No; Unknown): \_\_\_\_\_

Explain: \_\_\_\_\_

**Amphibian and Reptile Data**

**H11a.** Were amphibians seen? (Yes; No; NC): \_\_\_\_\_ If **Yes, H11b.** How many?: Frogs: \_\_\_\_\_ Toads: \_\_\_\_\_ Salamanders: \_\_\_\_\_

**H12a.** Were reptiles seen? (Yes; No; NC): \_\_\_\_\_ If **Yes, H12b.** How many?: Snakes: \_\_\_\_\_ Turtles: \_\_\_\_\_ Lizards: \_\_\_\_\_

**H13.** 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.: \_\_\_\_\_

**Threatened and Endangered Species Data**

**H14a.** Were Threatened and Endangered animal species observed? (Yes; No; NC): \_\_\_\_\_

If **Yes, H14b.** What species? Peregrine Falcon: \_\_\_\_\_ Bald Eagle: \_\_\_\_\_ Bull Trout: \_\_\_\_\_

Peregrine Falcon Nest: \_\_\_\_\_ Bald Eagle Nest: \_\_\_\_\_

**H14c.** Other T&E spp. seen? Species Number **H14d.** Location in polygon where T&E animals or nests were sighted:

Species	Number	Location in polygon where T&E animals or nests were sighted:
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Notable Bird Observations (Other than Waterfowl)**

**H15.** 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**

**H16.** Were rare plant species observed on the polygon? (Yes; No; NC): \_\_\_\_\_

Spp. #1: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

Spp. #2: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

Spp. #3: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

**H17.** Additional Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_