

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 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	D3. Regeneration Category	D4. Age Group Distribution Category	D5a. 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
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
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 (Agriculture; 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:
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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:

