

WETLAND DATA RECORD

- (i). WETLAND NAME AND/OR NUMBER LOWNEY LAKE
- (ii). ADMINISTRATIVE REGION EASTERN, AND DISTRICT CARLETON PLACE
OF ONTARIO MINISTRY OF NATURAL RESOURCES
- (iii). CONSERVATION AUTHORITY JURISDICTION None
- If not within a designated Conservation Authority, check here ☒
- (iv). COUNTY OR REGIONAL MUNICIPALITY LANARK County
- (v). TOWNSHIP DARLING
- (vi). LOTS AND CONCESSIONS CONC. 11 LOTS 19, 20
CONC. 12 LOTS 19, 20
- (vii). MAP AND AIR PHOTO REFERENCES
- (a) Longitude and Latitude 76° 28' 43" 45° 16' 20"
- (b) U.T.M. Grid Reference Zone: 18T; Grid: 840 142
- (c) National Topographic Series Scale and Map Number(s) & Name
1:50000 31 F/8 ARNPRIOR
- (d) Air Photos
- (1) Date photo taken 1978
- (2) Scale of air photos 1:10000
- (3) Flight and plate numbers (4519; 25) (4520; 236)
- (viii). WETLAND SIZE AND BOUNDARIES
- (a) Single contiguous wetland area: _____ hectares
- OR
- (b) "Wetland Complex" comprised of 3 individual wetlands as follows:
- | <u>Wetland Number (for reference purposes)</u> | <u>Size of each wetland in the complex</u> |
|--|--|
| <u>Wetland No. 1</u> | <u>15.4</u> <u>hectares</u> |
| <u>Wetland No. 2</u> | <u>3.9</u> <u>"</u> |
| <u>Wetland No. 3</u> | <u>7.0</u> <u>"</u> |
| <u>Wetland No. 4</u> | <u> </u> <u>"</u> |
| <u>Wetland No. 5</u> | <u> </u> <u>"</u> |
| <u>Wetland No. 6</u> | <u> </u> <u>"</u> |
| <u>Total size of wetland complex:</u> | <u>26.3</u> <u>"</u> |

100

1.1.5. Nutrient Status of Surface Water

(a) Write conductivity bridge reading and calculate T.D.S. at 25°C as per tables in Appendix VIII.

Location Sampled (i.e. inflow, outflow, etc.)	Initial Specific Conductance (umhos/cm)	Temperature (°C)	Total Dissolved Solids (T.D.S.) (mg/l)
#1	210	18°C	154.9
#2	200	20°C	148.0
#3	200	20°C	148.0
Average T.D.S.			150.3

(b) Check appropriate category (from (a))

Average T.D.S. (mg/l)

<100	
100-500	✓
501-1500	
>1500	
NO READING	

1.2. DIVERSITY VALUES

1.2.1. Number of Wetland Types
(check one)

- ☐ One
☐ Two
☒ Three
☐ Four

1.2.2. Vegetation Communities

(enter form and map code if available, or enter dominant species if known, and appropriate code/symbol)

a) One form

Code

2 SW4
 UW2
 chara, pondweeds,
 unvegetated open water < 2m in depth.

b) Two forms

Code

RM3

bulrush

chara, pondweeds.

c) Three forms

Code

CS2

tamarack, white cedar

tamarack shrubs
white cedar shrubs

cattails.

d) Four forms

Code

rem1

bulrush, cattails

grasses, sedges

white water lily
yellow pond lily

pondweeds.

e) Five forms

Code

dcS3

dead trees

dead shrubs

tamarack shrubs
white cedar shrubs

grasses, sedges

cattails.

f) Six or more forms

Code

neF1

CS1

sedges, grasses
tamarack, white cedar

cattails
tamarack shrubs
white cedar shrubs

big rosemary
sweetgale
dead tree (con.)

marsh ferns
stumps

pitcher plant
sedges, grasses

grasses
cattails
sweetgale
big rosemary
mosses

1.2.3. Diversity of Surrounding Habitat
(check all appropriate items)

- ☐ row crops
- ☐ pasture
- ☐ abandoned agricultural land
- ☒ deciduous forest
- ☒ coniferous forest
- ☒ urban or cottage development
- ☐ pits, quarries or mining waste disposal
- ☒ open lake or deep river
- ☐ fence rows with cover, or shelterbelts
- ☒ terrain undulating or hilly with ravines
- ☒ creek(s)

Enter Total = 6

1.2.4. Proximity to Other Wetlands
(check first appropriate category)

- i) Hydrologically connected by surface water to other wetlands (different dominant type) or open water within 1.5 km. ☒
- ii) Hydrologically connected by surface water to other wetlands (same dominant type) within 0.5 km. ☐
- iii) Hydrologically connected by surface water to other wetlands (different dominant type) or open water body from 1.5 to 4 km away. ☐
- iv) Hydrologically connected by surface water to other wetlands (same dominant type) from 0.5 to 1.5 km away. ☐
- v) Within 0.75 km of other wetlands (different dominant type) or open water body, but not hydrologically connected by surface water. ☐
- vi) Within 1 km of other wetlands, but not hydrologically connected by surface water. ☐
- vii) No wetland within 1.5 km. ☐

1.2.5. Interspersion
(check one)

- Type 1 ☒
- Type 2 ☐
- Type 3 ☐
- Type 4 ☐

1.2.6. Open Water Types
(check one)

No open water _____
Type 1 _____
Type 2 _____
Type 3 _____
Type 4 _____
Type 5 _____
Type 6 ☒ _____
Type 7 _____
Type 8 _____

1.3. SIZE (Biological Component)
(refer to viii)

26.3 hectares

2.0. SOCIAL COMPONENT

2.1. RESOURCE PRODUCTS WITH CASH VALUE

2.1.1. Timber (lumber and firewood)

- (1) _____ 51 to 100% of wetland area has mature trees (>10 cm dbh, >25% cover)
(2) ☒ _____ 10 to 50% of wetland area has mature trees (as above)
(3) _____ Wetland has few, immature or no trees

Source of information: Field Observation; B. Brown L.H. Arriaga

2.1.2. Wild Rice

- (1) _____ Present
(2) ☒ _____ Absent

Source of Information: Field Observation; B. Brown, L.H. Arriaga

2.1.3. Commercial Fish (Bait Fish and/or Coarse Fish)

- (1) _____ Fish harvested from the wetland (as per MNR)
(2) _____ Abundant during at least part of the year
(3) ☒ _____ Not abundant or only occasional
(4) _____ Habitat not suitable for fish

Source of Information: _____

2.1.4. Bullfrogs

- (1) _____ Present
(2) ☒ _____ Absent

Source of Information: Field Observation; B. Brown L.H. Arriaga

2.1.5. Snapping Turtles

(1) Present

(2) ✓ Absent

Source of Information: Field Observation; L.H. Arrivee, P. Brown.

2.1.6. Furbearers

(check if present)

✓ muskrat

✓ raccoon

✓ beaver

 mink
 other

Source of Information: Wilburn Box - Local Trapper

2.2. RECREATIONAL ACTIVITIES

(check appropriate spaces)

Intensity of Use	Type of Wetland Associated Use			
	Hunting	Nature Appreciation or Study	Fishing	Canoeing/Boating
High				
Moderate			✓	✓
Low				
None Known	✓	✓		
Not Possible				

Source of
Information

 Field Observation Field Observation
(Cottages on Lake) (Boats along shore etc.)

2.3. AESTHETICS

2.3.1. Landscape Distinctness

(1) ✓ Clearly distinct

(2) Indistinct

2.3.2. Absence of Human Disturbances

2.3.2.1. Level of Disturbance

- (1) ☒ Human disturbances absent or nearly so
- (2) ☐ One or several singular or localized disturbances
- (3) ☐ Moderate disturbance or localized water pollution
- (4) ☐ Impairment of natural quality intense in some areas or severe localized water pollution
- (5) ☐ Extremely intense disturbance or water pollution severe and widespread.

2.3.2.2. Types of Disturbances

- ☐ roads
- ☐ utility corridor
- ☐ buildings
- ☐ channelization
- ☐ drainage
- ☐ filling
- ☒ water pollution
- ☐ other: _____

2.4. EDUCATION AND PUBLIC AWARENESS

2.4.1. Educational Uses

- (1) ☐ Frequent - an average of 2 or more visits per year by one or more school groups, local clubs for the purpose of studying the animals, plants, environment, etc.
- (2) ☐ Infrequent - use by organized groups (one visit or less per year or only casual visits)
- (3) ☒ No known visits

List groups utilizing the wetland

<u>Name of Group(s)</u>	<u>Source of Information</u>
_____	_____
_____	_____
_____	_____

2.4.2. Facilities and Programs (check one)

- (1) ☐ Staffed interpretation center with shelters, trails, literature
- (2) ☐ No interpretation center or staff, but a system of self-guiding trails and observation points or brochures available
- (3) ☒ No facilities or programs

2.4.3. Research and Studies
(check one)

- (1) ☐ One or more wetland-related scientific research papers published in a scientific journal;
 (2) ☒ One or more reports written outlining some aspect of the wetland's natural resources;
 (3) ☐ No reports or papers.

List scientific papers, reports, etc.

OMNR Lake Survey Report (1969, 1974)

2.5. PROXIMITY TO URBAN AREAS
(check one)

- (1) ☐ In an urban or suburban area
 (2) ☐ <10 km from a population center greater than 10,000
 (3) ☒ 10 to 60 km from a population center greater than 10,000
 (4) ☐ Isolated or relatively remote

2.6. OWNERSHIP/ACCESSIBILITY

Estimate % of area and enter in the appropriate space(s)

ACCESSIBILITY

OWNERSHIP

Public, unrestricted activities	Public, restricted activities	Private, open to public for limited activities	Private Club, closed to public	Private or Private and posted
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1) Easy at
most times by
road/waterway

100%

2) Easy only
at certain
times of
the year

3) Limited,
moderate effort
required

4) Difficult*

* Requires extended effort due to distance from roads, navigable waterways or isolated geographical position.

Source of information Field Observations; B. Brown L. L'Arrivée

4.0. SPECIAL FEATURES COMPONENT

4.1. RARITY AND/OR SCARCITY

4.1.1. Individual Wetlands

Name of Physiographic Unit:
Unit Number:

Lanark Plain
13

4.1.2. Wetland Type Representation (minimum size 0.5 ha)
(check one or more)

☒ Marsh
☒ Swamp
☒ Fen
☐ Bog

4.1.3. Individual Species

4.1.3.1. Breeding Habitat for an Endangered Animal or Plant Species

nil

	<u>Name of Species</u>	<u>Source of Information</u>
(1)	_____	_____
(2)	_____	_____

4.1.3.2. Traditional Migration or Feeding Habitat for an Endangered Animal Species

nil

	<u>Name of Species</u>	<u>Source of Information</u>
(1)	_____	_____
(2)	_____	_____

4.1.3.3. Breeding or Feeding Habitat for a Provincially Significant Animal Species

nil

	<u>Name of Species</u>	<u>Source of Information</u>
(1)	_____	_____
(2)	_____	_____

4.1.3.4. Provincially Significant Plant Species

	<u>Name of Species</u>	<u>Source of Information</u>
(1)	_____	_____
(2)	_____	_____

4.1.3.5. Regionally Significant Species

	<u>Name of Species</u>	<u>Source of Information</u>
(1)	<u>Osprey (2)</u>	<u>Field Observation; L.L. Arrivee, B. Brown.</u>
(2)	<u>Cladonia mariscoides</u>	<u>Field Collection; L.L. Arrivee, B. Brown</u>
(3)	<u></u>	<u></u>
(4)	<u></u>	<u></u>

4.2. SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT

4.2.1. Nesting of Colonial Waterbirds
(check one)

- (1) Currently nesting; species name(s)
(2) Known to have nested within past 5 years;
species name(s)
(3) Active feeding area
(4) ✓ None known

Source of Information:

4.2.2. Winter Cover for Wildlife

(check only highest level of significance)

- (1) Provincial significance for Deer , Moose
(2) Regional significance for Deer , Moose
(3) Local significance for Deer , Moose
(4) Good winter cover for other species (list):

- (5) ✓ Poor winter cover

Source of Information: Field Observation; B. Brown, L.L. Arrivee

4.2.3. Waterfowl Staging

(check only highest level of significance)

- (1) National significance
(2) Provincial significance
(3) Regional significance
(4) ✓ Local or no significance

Source of Information: Field Observation; B. Brown, L.L. Arrivee
(no duck blinds)

4.2.4. Waterfowl Production

(check only highest level of significance)

- (1) Provincial significance
(2) Regional significance
(3) Local significance
(4) ✓ Little or no significance

Source of Information: Field Observation; B. Brown, L.L. Arrivee

4.2.5. Migratory Passerine and/or Shorebird Stopover Area
(check one)

- (1) ☐ High significance
(2) ☒ No significance

Source of Information: Field Observation; L.H. Arrivee, B. Brown.

4.2.6. Significance for Fish Spawning and Rearing
(check one)

- (1) ☐ Regional significance
(2) ☒ Present
(3) ☐ Unknown
(4) ☐ Not possible

Species and Source of Information: Northern Pike, Largemouth Bass, Yellow perch, Brown Bullhead, Pumpkinseed; (OMNR Lake Survey Report 1969, 1974) Carleton Place Archivist

4.2.7. Unusual Geological or other Surficial Features

Feature

nil

Source of Information

(1) _____

(2) _____

4.3. ECOLOGICAL AGE

Type of Wetland

- ☐ Bog
☒ Fen
☒ Swamp
☒ Marsh

Enter % of Area

21%

49%

28%

Upland 2%

INVESTIGATORS

Bruce Brown
Louis L. Arrivee

AFFILIATION

Ontario Ministry of Natural Resources

DATE

August 15, 1986

ESTIMATED TIME DEVOTED TO COMPLETING THE FIELD SURVEY IN "HOURS"

1.5 hrs.

WEATHER CONDITIONS

- (i) at time of field work: Warm, cloudy, humid 25°C
(ii) summer conditions in general: normal weather conditions

2.7. Size (Social Component)

26.3 hectares (refer to viii)

3.0. HYDROLOGICAL COMPONENT

3.1. EFFECT OF ADJOINING LARGE WATER BODY
(check one)

- (1) ☐ Wetland located on the Ottawa, St. Lawrence, Niagara,
Detroit or St. Clair Rivers (Go to 3.3)
- (2) ☐ Wetland bordering on one of the Great Lakes (Go to 3.3)
- (3) ☒ Wetland not located as above (Go to 3.2)

If (1) or (2), omit Section 3.2, FLOW STABILIZATION. Continue with Section 3.3, WATER QUALITY IMPROVEMENT. If (3), proceed to Section 3.2.

3.2. FLOW STABILIZATION

(All wetlands except those bordering on the Great Lakes or the 5 large rivers)

3.2.1. Detention Due to Surface Area

3.2.1.1. Size of Catchment Basin above Wetland Outflow

Catchment Basin Size 2.0 sq. km

3.2.1.2. Total Size of all Detention Areas (Lakes, Reservoirs and Wetlands) Draining into the Wetland (sq. km)

List Detention Areas

nil

Size

0

Total 0 sq. km

3.2.1.3. Size of Adjoining Lake (Lacustrine wetlands only)

36.4 hectares

3.2.1.4. Size of Adjoining River (Riverine wetlands only)
(not assessed)

3.2.1.5. Location and Size of Detention Areas (Lakes, Reservoirs and Wetlands) within 30 km above and below the wetland

(NOTE: 1 sq. km = 100 ha)

(a) Detention areas above the wetland (within 30 km)

Name and/or Number of Detention Area	Distance upstream from wetland (in km)	Size (hectares)	For Scoring Use
nil	nil	0	

(b) Detention areas below the wetland (within 30 km)

Name and/or Number of Detention Area	Distance downstream from wetland (in km)	Size (hectares)	For Scoring Use
White Lake	0 km	2435.0 ha	
Madawaska River	29 km	40.0 ha	

3.2.1.6. Land Use along River or Stream Shoreline for 20 km Below the Wetland

(Palustrine and all Riverine wetlands except those located along the 5 large rivers).

(check one)

- (1) Wetland outflow exits into a deep ravine _____
(2) A village, town or urban area is located along outflow within 20 km _____
(3) Not as above, and actively farmed agricultural land borders onto outflow, and _____

length of agricultural border = <1 km
(sum of shoreline 1-3
on both sides of 4-8
river within 20 km) >8

- (4) Not as above, (eg. lands bordering outflow within 20 km are forested, or abandoned by agriculture, or outflow enters another wetland or lake, etc.) _____

3.2.1.7. Size (Hydrological Component)
(see viii)

26.3 ha

3.2.2. Flow Augmentation (Palustrine wetlands only)

Size of Catchment basin 2.0 sq. km (See 3.2.1.1)

Wetland Area as a % of Catchment Basin Size 13.0%

(Note: convert wetland area to sq. km before calculating %)

3.3. WATER QUALITY IMPROVEMENT (All wetlands)

3.3.1. Short Term Removal of Nutrients from Surface Water

3.3.1.1. Site Type (see 1.1.4 and check dominant site)

- _____ Isolated
_____ Palustrine (with permanent or intermittent outflow)
_____ Riverine
_____ Riverine (at rivermouth)
_____ Lacustrine (at rivermouth)
_____ Lacustrine (on enclosed bay)
✓ _____ Lacustrine (exposed to lake)