

WETLAND EVALUATION RECORD

Wetland Name..... LOWNEY LAKE

Result of Evaluation: CLASS 6

GENERAL INFORMATION

Ontario Ministry of Natural Resources:

Region EASTERN

District CARLETON PLACE

Conservation Authority X

County or Regional Municipality LANARK

Township DARLING

UTM Reference Zone 18T

UTM Grid Coordinates 840142

National Topographic Map Series:

Map Scale 1:50000

Map Number 31 F/8

Map Name ARNPRIOR

Wetland Association Complex

Number of Wetlands in Complex 3

Total Size of Wetland (Ha) 26.3

1.0 BIOLOGICAL COMPONENT

1.1. PRODUCTIVITY VALUES

| | |
|--|-------|
| 1.1.1. Growing Degree Days..... | 14 |
| 1.1.2. Soils..... | 9 |
| 1.1.3. Type of Wetland..... | 13 |
| 1.1.4. Site..... | 4 |
| 1.1.5. Nutrient Status of Surface Water..... | 20 |
| | ----- |
| TOTAL for Productivity Values | 60 |

1.2. DIVERSITY VALUES

| | |
|--|-------|
| 1.2.1. Number of Wetland Types..... | 9 |
| 1.2.2. Vegetation Communities..... | 27 |
| 1.2.3. Diversity of Surrounding Habitat..... | 7 |
| 1.2.4. Proximity to Other Wetlands..... | 10 |
| 1.2.5. Interspersion..... | 6 |
| 1.2.6. Open Water Types..... | 8 |
| | ----- |
| TOTAL for Diversity Values | 67 |

| | |
|----------------------------------|-------|
| 1.3. SIZE (Biological Component) | 48 |
| | ----- |

| | |
|--------------------------------|-----|
| TOTAL FOR BIOLOGICAL COMPONENT | 175 |
|--------------------------------|-----|

2.0 SOCIAL COMPONENT

2.1. RESOURCE PRODUCTS WITH CASH VALUE

| | |
|---|----|
| 2.1.1. Timber (lumber and firewood)..... | 10 |
| 2.1.2. Wild Rice..... | 0 |
| 2.1.3. Commercial Fish (Bait Fish and/or Coarse Fish)..... | 5 |
| 2.1.4. Bullfrogs..... | 0 |
| 2.1.5. Snapping Turtles..... | 0 |
| 2.1.6. Furbearers..... | 15 |
| <hr/> | |
| TOTAL for Resource Products with Cash Value | 30 |

2.2. RECREATIONAL ACTIVITIES 24

2.3. AESTHETICS

| | |
|---|----|
| 2.3.1. Landscape Distinctness..... | 5 |
| 2.3.2. Absence of Human Disturbances..... | 20 |
| <hr/> | |
| TOTAL for Aesthetics | 25 |

2.4. EDUCATION AND PUBLIC AWARENESS

| | |
|--|---|
| 2.4.1. Educational Uses..... | 0 |
| 2.4.2. Facilities and Programs..... | 0 |
| 2.4.3. Research and Studies..... | 3 |
| <hr/> | |
| TOTAL for Education and Public Awareness | 3 |

2.5. PROXIMITY TO URBAN AREAS 10

2.6. OWNERSHIP/ACCESSIBILITY 20

2.7. SIZE (Social Component) 15

TOTAL FOR SOCIAL COMPONENT 127

3.0 HYDROLOGICAL COMPONENT

3.1. EFFECT OF ADJOINING LARGE WATER BODY

3.2. FLOW STABILIZATION

3.2.1. Detention due to Surface Area

3.2.1.1. and

3.2.1.2. FIRST step (from Table)..... 30

3.2.1.3. SECOND step..... 0

3.2.1.5. THIRD step.....-28

3.2.1.6. FOURTH step..... 0

3.2.1.7. FIFTH step..... 16

TOTAL for Detention Due to Surface Area 18

3.2.2. Flow Augmentation 0

TOTAL for Flow Stabilization 18

3.3. WATER QUALITY IMPROVEMENT

3.3.1 Short Term Removal of Nutrients from Surface Water

3.3.1.1. Site type..... 2

3.3.1.2. Wetland Area Dominated
by Robust Emergents and
Submergents..... 0

3.3.1.3. Land Use in Catchment Basin 3

TOTAL for Short Term Removal of
Nutrients from Surface Water 5

3.3.2. Long Term Nutrient Trap 6

TOTAL for Water Quality Improvement 11

3.4. EROSION CONTROL

3.4.1. Erosion Buffer

3.4.1.1. Riverine Wetlands..... 0

3.4.1.2. Lacustrine Wetlands..... 15

3.4.1.3. Fetch..... 1

TOTAL for Erosion Buffer 16

3.4.2. Sheet Erosion 0

TOTAL for Erosion Control 16

TOTAL FOR HYDROLOGICAL COMPONENT

45

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY AND/OR SCARCITY

| | |
|--|-------|
| 4.1.1. Individual Wetlands..... | 5 |
| 4.1.2. Wetland Type Representation..... | 20 |
| 4.1.3. Individual Species | |
| 4.1.3.1. Breeding Habitat for an Endangered Animal or Plant Species..... | 0 |
| 4.1.3.2. Traditional Migration or Feeding Habitat for an Endangered Animal Species.. | 0 |
| 4.1.3.3. Breeding or Feeding Habitat for a Provincially Significant Animal Species. | 0 |
| 4.1.3.4. Provincially Significant Plant Species..... | 0 |
| 4.1.3.5. Regionally Significant Species..... | 20 |
| | ----- |
| TOTAL for Individual Species | 20 |
| | ----- |
| TOTAL for Rarity and/or Scarcity | 45 |

4.2. SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT

| | |
|--|-------|
| 4.2.1. Nesting of Colonial Waterbirds..... | 0 |
| 4.2.2. Winter Cover for Wildlife..... | 1 |
| 4.2.3. Waterfowl Staging..... | 0 |
| 4.2.4. Waterfowl Production..... | 0 |
| 4.2.5. Migratory Passerine and/or Shorebird Stopover Area..... | 0 |
| 4.2.6. Significance for Fish Spawning and Rearing..... | 15 |
| 4.2.7. Unusual Geological or other Surficial Features..... | 0 |
| | ----- |
| TOTAL for Significant Features and/or Fish and Wildlife Habitat | 16 |

4.3. ECOLOGICAL AGE

TOTAL FOR SPECIAL FEATURES COMPONENT 64

SUMMARY OF EVALUATION RESULTS

Wetland Name: LOWNEY LAKE

| | |
|---|-----|
| TOTAL FOR 1.0 BIOLOGICAL COMPONENT..... | 175 |
| TOTAL FOR 2.0 SOCIAL COMPONENT..... | 127 |
| TOTAL FOR 3.0 HYDROLOGICAL COMPONENT..... | 45 |
| TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT..... | 64 |
| ----- | |
| TOTAL | 411 |
| CLASS | 6 |

INVESTIGATORS:

BRUCE BROWN
LOUIS L'ARRIVEE

AFFILIATION .. MNR CARLETON PLACE
DATE 08/15/86