

## WETLAND EVALUATION RECORD

Wetland Name..... WHITE LAKE 1

Result of Evaluation: CLASS 3

### GENERAL INFORMATION

Ontario Ministry of Natural Resources:

Region ..... EASTERN

District ..... CARLETON PLACE

Conservation Authority ..... X

County or Regional Municipality ..... LANARK

Township ..... PAKENHAM & DARLING

UTM Reference Zone ..... 18T

UTM Grid Coordinates ..... 840180

National Topographic Map Series:

Map Scale ..... 1:50000

Map Number ..... 31 F/8

Map Name ..... ARNPRIOR

Wetland Association ..... Single contiguous

Number of Wetlands in Complex ..... 1

Total Size of Wetland (Ha) ..... 615

## 1.0 BIOLOGICAL COMPONENT

### 1.1. PRODUCTIVITY VALUES

1.1.1. Growing Degree Days.....	14
1.1.2. Soils.....	3
1.1.3. Type of Wetland.....	18
1.1.4. Site.....	6
1.1.5. Nutrient Status of Surface Water.....	20

TOTAL for Productivity Values 61

### 1.2. DIVERSITY VALUES

1.2.1. Number of Wetland Types.....	12
1.2.2. Vegetation Communities.....	30
1.2.3. Diversity of Surrounding Habitat.....	7
1.2.4. Proximity to Other Wetlands.....	10
1.2.5. Interspersion.....	20
1.2.6. Open Water Types.....	20

TOTAL for Diversity Values 99

1.3. SIZE (Biological Component) 50

TOTAL FOR BIOLOGICAL COMPONENT 210

## 2.0 SOCIAL COMPONENT

### 2.1. RESOURCE PRODUCTS WITH CASH VALUE

2.1.1. Timber (lumber and firewood).....	10
2.1.2. Wild Rice.....	10
2.1.3. Commercial Fish (Bait Fish and/or Coarse Fish).....	30
2.1.4. Bullfrogs.....	2
2.1.5. Snapping Turtles.....	0
2.1.6. Furbearers.....	15

TOTAL for Resource Products with Cash Value 60

### 2.2. RECREATIONAL ACTIVITIES 64

### 2.3. AESTHETICS

2.3.1. Landscape Distinctness.....	5
2.3.2. Absence of Human Disturbances.....	15

TOTAL for Aesthetics 20

### 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

TOTAL for Education and Public Awareness 3

### 2.5. PROXIMITY TO URBAN AREAS 10

### 2.6. OWNERSHIP/ACCESSIBILITY 17

### 2.7. SIZE (Social Component) 20

TOTAL FOR SOCIAL COMPONENT 194

### 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).....	70
3.2.1.3. SECOND step.....	-8
3.2.1.5. THIRD step.....	-26
3.2.1.6. FOURTH step.....	0
3.2.1.7. FIFTH step.....	40
	<hr/>
TOTAL for Detention Due to Surface Area	76
3.2.2. Flow Augmentation	0
	<hr/>
TOTAL for Flow Stabilization	76

#### 3.3. WATER QUALITY IMPROVEMENT

3.3.1 Short Term Removal of Nutrients from Surface Water	
3.3.1.1. Site type.....	3
3.3.1.2. Wetland Area Dominated by Robust Emergents and Submergents.....	6
3.3.1.3. Land Use in Catchment Basin	3
	<hr/>
TOTAL for Short Term Removal of Nutrients from Surface Water	12
3.3.2. Long Term Nutrient Trap	4
	<hr/>
TOTAL for Water Quality Improvement	16

#### 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
	<hr/>
TOTAL for Erosion Buffer	16
3.4.2. Sheet Erosion	0
	<hr/>
TOTAL for Erosion Control	16

TOTAL FOR HYDROLOGICAL COMPONENT

108

#### 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.....	30

TOTAL for Individual Species 30

TOTAL for Rarity and/or Scarcity 55

##### 4.2. SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT

4.2.1. Nesting of Colonial Waterbirds.....	3
4.2.2. Winter Cover for Wildlife.....	10
4.2.3. Waterfowl Staging.....	0
4.2.4. Waterfowl Production.....	5
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 33

4.3. ECOLOGICAL AGE 2

TOTAL FOR SPECIAL FEATURES COMPONENT 90

# SUMMARY OF EVALUATION RESULTS

Wetland Name: WHITE LAKE 1

TOTAL FOR 1.0 BIOLOGICAL COMPONENT..... 210

TOTAL FOR 2.0 SOCIAL COMPONENT..... 194

TOTAL FOR 3.0 HYDROLOGICAL COMPONENT..... 108

TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT..... 90

TOTAL ..... 602

CLASS ..... 3

## INVESTIGATORS:

BRUCE BROWN  
JEFF MCNAUGHTON

AFFILIATION .. MNR CARLETON PLACE  
DATE ..... 07/25/85