Black Wetland Complex Wetland Evaluation Edition August 28 2012 **Comments** The following evaluation was completed using polygon information derived from a "Geographic Information Layer" provided by LIO. The wetland polygon's were identified from 2010 Colour Ortho aerial photography provided by NextEra. This analysis of significance was conducted as a result of wetland polygons being within 120 m of a proposed windfarm project component. MNR was consulted to determine which wetland should be included in the complex and all those within 120 m have been included in this assessment. All wetlands features identified in this assessment were field visited and boundaries delineated on site. A visible wetland feature (through air photo) between units 19 and 23 was not included in the analysis as it is currently under agricultural use and the species typical of wetlands were not present. Wetland plants present are associated with a small drainage ditch along the east side. **Additional Information** Include relevant information that can not be entered in the wetland data record(Ex. Sections that have not been NextEra Energy Canada has and continues to consult with Aborigial communities identified by the Director's List under Ontario values that may be of concern. No pertinent information has been gathered at this time however discussions are on-going and will be updated when they become available. Official Name: Black Wetland Complex Evaluation Edition: Class: Wetland ID.: 3rd Wetland Significance Year/Month Last Evaluated August 28 2012 Year/Month Last Updated Special Planning Considerations: **Scores** Wetland Area: 44.00 Biological: 211 Dentention Area: 47.5 69 Social: 552.97 Hydrological: 226 Catchment Area: OMNR Source Special Features: 210 Information Source Jennifer Noel Overall: 717 Jennifer Noel Submitted by: Date: August 28, 2011

	Southern Ontario Wetland Evaluation	, Data and Scoring	Record	March 1993
Wetl	land Manual			
	WETLAND I	DATA AND SCORI	NG RECORD	
i)	WETLAND NAME:	Black	Wetland Complex	i.
ii)	MNR ADMINISTRATIVE REGION	N: Southern	DISTRICT:	Midhurst
	AREA OFFICE (if different from Di	istrict):		
iii)	CONSERVATION AUTHORITY J	URISDICTION:	Saugeen Valley	Conservation Authority
	(If not within a designated CA, check h	nere:		
iv)	COUNTY OR REGIONAL MUNIC	IPALITY:	West	Grey
v)	TOWNSHIP:		Durham	
()	TOWNSHII.	•	Dui nam	
vi)	LOTS & CONCESSIONS:		Glenelg	
	(attach separate sheet if necessary)	PT LT19-	20, 23-25 CON 4,	PT LT 19-25 CON 5
vii)	MAP AND AIR PHOTO REFEREN	ICES		
	a) Latitude: 44.14'15" Longitud	de: 80.40'45''		
	b) UTM grid reference:	Zone: 17 Grid:E 256		Block: NU Grid:N 984
	c) National Topographic Series:			
	map name(s)		Durham	
	map number(s)	41A/2	edition	
	scale	1:5	0000	_
	d) Aerial photographs: Date photo taken:		Scale:	1:5000
	Flight & plate numbers:	SWOOP 2010	, resolution (20cm)	
	(attach separate sheet if necessary)			
	e) Ontario Base Map numbers & scale	101752	0048950, 10175250	048950
		scale: 1:10,000		
	(attach separate sheets if necessary)	,		
Ī				

Data Summery Form

Code:
Wetland Name: Black Wetland Complex

												EIGH			
WETLAND	DOMINATE		COMMUNITY	COMMUNITY					# OF	% OPEN	ha OPEN	FISH HABITAT			
UNIT #	FORM	WETLAND TYPE	CODE	SUB_CODE	AREA (ha)	SITE TYPE	SOIL	FORMS	FORMS	WATER	WATER	(LM / HM)	Dominate Species	Additional Species	COMMENTS
														Ulmus americana, Typha	
1	1.	C	1.01		1.20	Dolooteino	1	1. 1	3				Populus balsamifera, Fraxinus nigra; Cornus sericea; Carex flava, Scirpus atrovirens	latifolia, Eupatorium maculatum, Onoclea sensibilis	mondoide enument
1	n to	Swamp	hS1			Palustrine Palustrine	sand	h, ls, ne	3		-	none	*	Onociea sensibilis	roadside survey
1	ts	Swamp	tsS2		0.31	Parustrine	clay/loam	ts	1		-	unknown	n/a Abies balsamifera, Thuja occidentalis; Salix sp.;	Fraxinus nigra, Populus	air photo assessed
2	C	Swamp	cS3		0.99	Palustrine	humic/mesic	c, ts, ne, re	4		_	none	Phalaris arundinacea; Typha latifolia	tremuloides	roadside survey
		Swamp	CSS		0.55	rarastrine	name, mesie	0, 10, 10				none		Hemareraes	Toddside survey
													Larix laricina, Abies balsamifera; Cornus sericea,		
													Salix sp, Sambucus racemosa; Iimpatiens capensis, Chelone glabra, Eupatorium maculatum, Slidago	Fraxinus nigra, Acer rubrum,	
2	С	Swamp	cS4		2.94	Palustrine	humic/mesic	c, ts, ge, ne	4		_	none	rugosa; Leersia oryzoides, Phalaris arundinacea	Ulmus americana	roadside survey
		5 wamp	65.		2.7.	T di di di di	manne, megre	e, 15, ge, 11e				none			
2	re	Marsh	reM1		0.62	Palustrine	humic/mesic	re, f, ff	3	40	0.25	LM	Typha latifolia; Nuphar variegata; Lemna minor	d	roadside survey
													Salix discolor, Salix eriocephala; Cornus		
													sericea; Typha latifolia; Aaster		
													lanceolatus, Eupatorium maculatum; Scirpus		
2	ts	Swamp	tsS5			Palustrine	humic/mesic	ts, ls, re, gc, ne	5		-	none	atrovirens	Fraxinus pennsylvanica	roadside survey
2	be	Marsh	beM2		0.14	Palustrine	clay/loam	be, ff	2		-	LM	Nuphar variegata; Lemna minor		roadside survey
													l		
			1.06		204	D.I.			2	25	0.51		Acer rubrum, Fraxinus nigra; Salis eriocephala;		
3	h	Swamp	hS6			Palustrine	clay/loam	h, ls, ne	3	25	0.51	none	Phalaris arundinacea, Carex lacustris	laricina, Thuja occidentalis	roadside survey
4	ts	Swamp	tsS7			Palustrine	sand	ts	1		-	unknown	n/a		air photo assessed
4	ne	Marsh	neM3			Palustrine	clay/loam	ne	1	20	0.10	unknown	n/a		air photo assessed
4	su	Marsh	suM4		0.13	Palustrine	clay/loam	su	1	80	0.10	unknown	n/a		air photo assessed
													Abies balsamifera, Thuja occidentalis, Larix laricina;		
													Eupatorium maculatum, Eupatorium perfoliatum,		
5	c	Swamp	cS8		15.51	Palustrine	humic/mesic	c, ne, gc, m	4		-	none	Solidago rugosa; Thypa latifolia; moss sp.		roadside survey
_		G.	go		0.52	Dalas dalas			2				Thuja occidentalis; Carex flava; Parnassia		4::4
5	С	Swamp	cS9		0.53	Palustrine	sand	c, ne, gc	3		-	none	glauca, Tusilago farfara, Euthamia graminifolia		roadside survey, seepage area
													Salix bebbiana, Salix discolor, Abies balsamira;		
													Chelone glabra, Eupatorium maculatum; Phalaris	Ulmus americana, Acer rubrum,	
6	ts	Swamp	tsS10		1.34	Palustrine	humic/mesic	ts, gc,ne, m	4		-	none	arundinacea, Bromus ciliatus; Shagnum sp	Lemna minor, Calla palustris	roadside survey
													Larix laricina, Abies balsamifera; Acer rubrum, Fraxinus nigra; Abies balsamifera; Equisetum		
													palustre, Thelypteris palustris, Rubus pubescens,	Aralia nudicaulis, Parnassia	
6	c	Swamp	cS11		6.96	Palustrine	humic/mesic	c, h, ts, ne, m	5		-	none	Solidago rugosa; Spagnum sp.	glauca, Clintonia borealis	roadside survey
														Larix laricina, Platanthera	
														hyperborea, Pogonia	
														ophioglossoides, Comarum	
					1								Carex limosa, Carex flava; Tofieldia glutinosa,	palustre, Chamaedaphne calyculata, Vaccinium	
		Ean	# oF1		0.50	Incloted	hamais/errain	las he as	3	5	0.03		Panassia glauca, Cypripedium calceolus; Sphagnum sp		field over and
6	ne	Fen	neF1		0.59	Isolated	humic/mesic	ne, be, m	3	3	0.03	none	1 & 1	oxycoccos Larix laricina, Abies	field survyed
1													Thuja occidentalis; Carex lacustris, Carex flava; Parnassia glauca, Tusilago farfara, Euthamia	balsamifera, Cepripedium	
6	c	Swamp	cS12		0.31	Palustrine	sand	c, ne, gc	3		_	none	graminifolia	calceolus, Lobelia kalmii	field survyed, seepage area
	<u> </u>		55.2	1	0.51		Julia	-,, 5-					0 " " "	,	
													Acer rubrum, Fraxinus nigra; Cornus sericea,	Pyrola asarifolia, Lysimachi	
					1								Rhamnus alnifolia; Osmunda regalis, Onoclea	ciliata, Tiarella cordifolia, Rubus	
6	h	Swamp	hS13		3.21	Palustrine	humic/mesic	h, ls, m, gc	4		-	none	sensibilis Laportea canadesnsis; moss sp.	pubescens, Sium suave	field survyed
													Abies balsamifera, Thuja occidentalis; Ulmus		
													americana; Osmunda regalis, Solidago rugosa,		
			<u></u>					1.					Rubus pubescens; Carex grayi, Carex		
6	С	Swamp	cS14		0.50	Palustrine	humic/mesic	c, h, ne, m	4		-	none	vulpinoidea	Osmunda cinnamomea	field survyed

		1	1	1	ı	1		1	1		1		A	Detale all aleminaria Decales	
7	1.	C	1.015		0.27	Palustrine	-11/1	h	2				Acer rubrum; Equisetum arvense Sium suave,	tremuloides	field survyed
/	h	Swamp	hS15		0.37	Parustrine	silt/marl	h, gc	2		-	none	Thelypteris palustris	tremuloides	field survyed
													Salix discolour; Cornus sericea; Comarum		
_			. 016		0.41	D 1	21.7		_	20	0.00		palustre; Sium suave, Solanum dulcamara;		C 11
7	ts	Swamp	tsS16		0.41	Palustrine	silt/marl	ts, ls, be,gc, ff	5	20	0.08	none	Lemna minor		field survyed
													Acer rubrum; Salix petiolaris; Cornus sericea,		
													Rhamnus alnifolia; Phalaris arundinacea,	Fraxinus pennsylvanica, Betula	
10	h	Swamp	hS20		0.20	Palustrine	clay/loam	h, ts, ne, be	4		-	none	Glyceria striata; Sium suave	alleghaniensis	field survyed
													Acer rubrm, Populus balsamifera; Glyceria		
													striata, Phalaris arundinacea; Eupatorium		
													maculatum, Impatiens capensis, Onoclea		
8	h	Swamp	hS17		0.26	Palustrine	silt/marl	h, ne, gc,	3		-	none	sensibilis	Cornus sericea	field survyed
													Abies balsamifera; Acer rubrum, Fraxinus		
													nigra; Thelypteris palustris, Onoclea sensibilis;		
8	С	Swamp	cS18		2.07	Palustrine	clay/loam	c, h, ne, gc	4		_	none	Glyceria striata	Betula alleghaniensis	field survyed
	-							, , , , ,							·
													Salix petiolaris, Cornus sericea; Acer rubrum; Sium	Betula alleghaniensis, Ulmus	
9	ts	Swamp	tsS19		0.42	Palustrine	silt/marl	ts, h, ne, be	4		-	none	suave; Dulichium arundinaceaum, Glyceria striata	americana, mosses	field survyed
		-													·
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					44.47				1		0.97				
					44.47			<u>l</u>			0.97				

viii) WETLAND SIZE AND BOUNDARIES

a) Single contiguous wetland area: hectares

Wetland Unit Number

b) Wetland complex comprised of 25 individual wetlands:

Size of each

Wettand Onit Number		Size of Cacif
(for reference)		wetland unit
		Ha
Wetland Unit No.	1	1.69
Wetland Unit No.	2	6.80
Wetland Unit No.	3	2.04
Wetland Unit No.	4	1.26
Wetland Unit No.	5	16.04
Wetland Unit No.	6	12.91
Wetland Unit No.	7	0.78
Wetland Unit No.	8	2.33
Wetland Unit No.	9	0.42
Wetland Unit No.	10	0.20
Wetland Unit No.	11	0.00
Wetland Unit No.	12	0.00
Wetland Unit No.	13	0.00
Wetland Unit No.	14	0.00
Wetland Unit No.	15	0.00
Wetland Unit No.	16	0.00
Wetland Unit No.	17	0.00
Wetland Unit No.	18	0.00
Wetland Unit No.	19	0.00
Wetland Unit Totals:		44.47

(Attach additional sheets if necessary)

TOTAL WETLAND SIZE

44.47

c) Brief documentation of reasons for including any areas less than 0.5 ha in size:

MNR Midhurst Wetland Specialist was consulted to help focus the assessment effort and the number of wetlands due to the large number of wetlands identified through air photo interp and LIO layers within the catchment area. Several wetlands beyond the 120 m and within 750m of complex rules were excluded due to property access. MNR stated that for the purpose of REA they only require wetland within 120 m and where access is granted to be assess. for Sig (Attach separate sheets if necessary .)

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 GROWING DEGREE-DAYS/SOILS

GRO	WING DEG	REE DAYS	MAP	S	OILS	
(chec	ck one)			E	stimated F	ractional Area
1)	X	<2800			0.12	clay/loam
2)		2800 -320	00		0.03	silt/marl
3)		3200 -360	00		0.00	limestone
4)		3600 -400	00		0.06	sand
5)		>4000			0.78	humic/mesic
					0.00	fibric
					0.00	granite

Determine the soil type from the appropriate OMAF soils maps

SCORING:

Growing Degree- Days	Clay- Loam	Silt- Marl	Lime- stone	Sand	Humic- Mesic	Fibric	Granite
<2800	15	13	11	9	8	7	5
2800-3200	18	15	13	11	9	8	7
3200-3600	22	18	15	13	11	9	7
3600-4000	26	21	18	15	13	10	8
>4000	30	25	20	18	15	12	8

(maximum score 30; if wetland contains more than one soil type,

evaluate based on the fractional area)

Steps required for evaluation: (maximum score 30 points)

- 1. Select GDD line in evaluation table applicable to your wetland;
- 2. Determine fractional area of the wetland for each soil type;
- 3. Multiply fractional area of each soil type by score;
- 4. Sum individual soil type scores (round to nearest whole number).

In wetland complexes the evaluator should aim at determining the percentage of area occupied by the categories for the complex as a whole.

Score		
15	clay/loam	1.80
13	silt/marl	0.43
	limestone	0.00
9	sand	0.58
8	humic/mesic	6.26
	fibric	0.00
	granite	0.00

Final Score Growing Degree-Days/Soils (maximum 30 points)

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	Area = area of wetland type/total wetland area)	
Estimate the Wetland Type from air pho Fractional Area	Score	
Bog 0.00 Fen 0.01 Swamp 0.96 Marsh 0.03	x 3 0.0 x 6 0.1 x 8 7.7 x 15 0.5 Subtotal: 8.2 Wetland type score (maximus)	um 15 points) 8
	= area of site type/total wetland area)	
Estimate from air photos	Fractional Area	Score
Isolated Palustrine (permanent or intermittent flow) Riverine Riverine (at rivermouth) Lacustrine (at rivermouth Lacustrine (on enclosed bay, with barrier beach) Lacustrine (exposed to lake) 1.2 BIODIVERSITY 1.2.1 NUMBER OF WETLAND TYPES	0.01	0.01 1.97 0.00 0.00 0.00 0.00 0.00 1.99 num 5 points)
(Check only one)	Score	
1) one 2) two 3) 20 three 4) four	9 points 13 20 30	
	Number of Wetland Types Score (maximum 3	20 points)
	4	

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1.2.2 VEGETATION COMMUNITIES Veg Ref

Attach a separate sheet listing community (map) codes, vegetation forms and dominant species. Use the form on the following page to record percent area by dominant vegetation form. This information will be used in other parts of the evaluation.

Communities should be grouped by number of forms. For example, 2 form communities might appear as follows:

2 forms

Code	Forn	ns	Dom	ninant Species	_		
M6	re,	ff	re,	Typha latifolia;	ff,	Lemna minor,	Wolffia
S1	ts,	gc	ts,	Salix discolor;	gc,	lmpatiens capens	is, Thelypteris palustris

Note that the dominant species for each form are separated by a semicolon. The dominant species (maximum of 2) within a form are separated by commas.

Scoring:

Total # of communities with 1-3 forms	Total # of communities with 4 -5 forms	Total # of communities with 6 or more forms
1 = 1.5 points	1 = 2 points	1 = 3 points
2 = 2.5	2 = 3.5	2 = 5
3 = 3.5	3 = 5	3 = 7
4 = 4.5	4 = 6.5	4 = 9
5 = 5	5 = 7.5	5 = 10.5
6 = 5.5	6 = 8.5	6 = 12
7 = 6	7 = 9.5	7 = 13.5
8 = 6.5	8 = 10.5	8 = 15
9 = 7	9 = 11.5	9 = 16.5
10 = 7.5	10 = 12.5	10 = 18
11 = 8	11 = 13	11 = 19
+.5 each additional	+.5 each additional	+ 1 each additional
community = 8.5	community = 13.5	community = 0.0

e.g., a wetland with 3 one form communities

4 two form communities

12 four form communities and

8 six form communities would score:

$$6 + 13.5 + 15 = 34.5 = 35$$
 points

SubTotal:

22

Vegetation Communities Score (maximum 45 points)

Southern Ontario Wetland Eva Wetland Manual	luation Data and Scoring Record	March 1993
Wetland Name:	Black Wetland Complex	
Wetland Size (ha):	44.47	
Vegetation Form	% area in which form is dominant	
h	16.78	
С	67.03	
dh	0.00	
dc	0.00	
ts	11.83	
ls	0.00	
ds	0.00	
gc	0.00	
m	0.00	
ne	2.36	
be	0.31	
re	1.39	
ff	0.00	
f	0.00	
su	0.29	
u (unvegetated)	0.00	
Total = 100%	100.00	
	6	

	Wetland Evaluation Data and Scoring Record	March 1993
Wetland Manual		
DIVERGITY O		
	F SURROUNDING HABITAT	
neck all appropriat		
termine from air p		
<u> </u>	row crop	
1	pasture abandoned agricultural land	
1	deciduous forest	
1	coniferous forest	
1	mixed forest (at least 25% conifer and 75% deciduous or vice versa)	
	abandoned pits and quarries	
	open lake or deep river	
1	fence rows with cover, or shelterbelts	
1	terrain appreciably undulating, hilly, or with ravines	
1	creek flood plain	
8	Subtotal	
Div	versity of Surrounding Habitat Score (1 for each, maximum 7 points)	7
4 DDOVINGEN	CO OTHER WETH AND	
	oropriate category only)	Scoring
	photos and other wetlands evaluations in the vicinity	Scoring
1)	Hydrologically connected by surface water to other wetlands	
	(different dominant wetlal1d type) or to open lake or deep river	
	within 1.5 km	8 points
		1
2)	Hydrologically connected by surface water to other wetlands	
	(same dominant wetland type) within 0.5 km	8
3)	Hydrologically connected by surface water to other wetlands	
	(different dominant wetland type), or to open lake or deep river from	-
	1.5 to 4 km away	5
4)	Hydrologically connected by surface water to other waterda	
4)	Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5 to 1.5 km away	5
	(same dominant wedand type) from 0.5 to 1.5 km away	5
5) 5	Within 0.75 km of other wetlands (different dominant wetland type)	
	or open water body, but not hydrologically connected by	
	surface water	5
6)	Within 1 km of other wetlands, but not hydrologically	
	connected by surface water	2
7)	N	0
7)	No wetland within 1 km	0
Pro	eximity to other Wetlands Score (Choose one only, maximum 8 points)	5
	, , , , , , , , , , , , , , , , , , ,	

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1.2.5 INTERSPERSION		
Optional: Complete as time permits or as scoring dict	tates.	
Number of Intersections		
(Check one)	Score	
1) 26 or less	3	
2) 27 to 40	6	
3) 41 to 60	9	
4) 61 to 80 74	12	
5) 81 to 100	15	
6) 101 to 125	18	
7) 126 to 150	21	
8) 151 to 175	24	
9) 176 to 200	27	
10) >200	30	
10) >200		
Interspersion Sco	ore (Choose one only maximum 30 points)	74
1.2.6 OPEN WATER TYPES Ref		
Determine from aerial photos.		
Permanently flooded:		
(Check one)	Score	
(Check one)	Score	
1) type 1	8	
2) type 2	8	
	14	
	20	
4) type 4		
5) type 5	30	
6) type 6	8	
7) type 7	14	
8) type 8	3	
9) no open water	0	
Onen Water Type See	re (Choose one only maximum 30 points)	14
Open water Type Sco.	re (Choose one only maximum 50 points)	14
	8	

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1.3 SIZE

Score may be lower than actual if "Vegetation Community and Interspersion" have not been calculated.

44.5 hectares 142 Subtotal for Biodiversity

Size Score (Biological Component) (maximum 50 points)

50

Evaluation Table Size Score (Biological component)

Wetland Total Score for Biodiversity Subcomponent										
size (ha)	<37	37-48	49-60	61-72	73-84	85-96	97- 108	109- 120	121- 132	>132
<21 ha	1	5	7	8	9	17	25	34	43	50
21-40	5	7	8	9	10	19	28	37	46	50
41-60	6	8	9	10	11	21	31	40	49	50
61-80	7	9	10	11	13	23	34	43	50	50
81-100	8	10	11	13	15	25	37	46	50	50
101-120	9	11	13	15	18	28	40	49	50	50
121-140	10	13	15	17	21	31	43	50	50	50
141-160	11	15	17	19	23	34	46	50	50	50
161-180	13	17	19	21	25	37	49	50	50	50
181-200	15	19	21	23	28	40	50	50	50	50
201-400	17	21	23	25	31	43	50	50	50	50
401-600	19	23	25	28	34	46	50	50	50	50
601-800	21	25	28	31	37	49	50	50	50	50
801-1000	23	28	31	34	40	50	50	50	50	50
1001-1200	25	31	34	37	43	50	50	50	50	50
1201-1400	28	34	37	40	46	50	50	50	50	50
1401-1600	31	37	40	43	49	50	50	50	50	50
1601-1800	34	40	43	46	50	50	50	50	50	50
1801-2000	37	43	47	49	50	50	50	50	50	50
>2000	40	46	50	50	50	50	50	50	50	50

	Wetland Evaluation	Data and Scorin	g Record	Mar	ch 1993
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			OMBONENE		
		2.0 SOCIAL C	<u>OMPONENT</u>		
2.1 ECONOMICA	ALLY VALUABLE	PRODUCTS	<u> </u>		
2.1.1 WOOD PROD	UCTS				
		area dominatea	l by ''h'' or ''c'' by us	sing aerial photograph.	
				wetland size. (Check one	
only) h:	7.46 c: 29.81				
			G		
1)	<5 ha		Score 0		
1) 3	5 -25 ha		3		
3)	26 -50 ha		6		
4)	51- 100 ha		9		
5)	101 -200 ha		12		
6)	>200 ha		18		
Source of information	n: airphot	o interpretation a	and field investigation	n	
	Wood	l Products Scor	e (Score one only, n	naximum 18 noints)	3
	***************************************	i i i oddets seoi	e (Beore one omy, n	mamam 10 points)	
2.1.2 WILD RICE					
(Check one)				Score (Choose one)	
Present (minim	num size 0.5 ha)	1)		6 points	
Absent		2)	0	0	
Source of information	n•	field ovse	rvation		
Source of information	u. 	Jennifer		<u></u>	
	-				
			Wild Rice Score ((maximum 6 points)	0
2.1.3 COMMERCIA	AL FISH (BAIT FISH	AND/OR COA	RSE FISH		
(Check one)	12 1 1011 (21111 1 1011			Score (Choose on	ie)
Present		1)	12	12 points	•
Habitat not suitable f	or fish	2)		0	
C	<i>e</i> :	.1.1 .1	I		
Source of infolmation			Lynette Renzetti ies files indicate pres	sence of fish score"present"	
if any part of the well	iunu is riverine or in		cial Fish Score (max		12
214 DILLEDOGS					
2.1.4 BULLFROGS (Check one)	<u> </u>			Score (Choose on	·a)
Present		1)		1 points	(C)
Absent		2)	0	0	
1200011		-,	Ü	v	
Source of information	n:	Field obse	ervation		
		Allison Fea			
			Bullfrog Score (n	naximum 1 point)	0
		10)		
		10	,		

	ern Ontario Wetlan	d Eval	uation Data and S	coring	Record		
Wetlands Manual							
2.1.5 SNAPPING TURTLES	_				G (G1	,	
(Check one)	1)		1		Score (Choose on	e)	
Present	1)		0		1 point		
Absent	2)		0		0		
Source of information:	comm		on with neighbou	rs			
			tte Renzetti ping Turtle Scor	a (marri			1
		Snap	ping Turne Scor	e (maxi	imum i point)	,	1
2.1.6 FURBEARERS Fur Ref (Consult Appendix 9)							
Name of furbearer		Sourc	e of information				
1) raccoon	3		Jenni	fer Noel			
2) mink	3		Dave	Martin		•	
3)						1	
4)						1	
5)						1	
SubTotal	6					•	
Scoring: 3 points for each species.	maximum 12						
			Furbearer Score	e (maxi	mum 12 points)		6
2.2 RECREATIONAL ACTIVI	TIES						
	Type of Wet	land-A	ssociated Use				
Intensity of Use	Hunting		Nature Enjoyn Ecosystem St		Fishing		
High	40 points		40 points		40 points		
Moderate	20		20		20		
Low	8	8	8		8	8	
Not possible/NotKnown	0		0	0	0	0	
Totals		8		0		8	16
(score one level for each of the Sources of information:	ne three wetland us	es; sco	res are cumulative	e; maxii	mum score 80 poir	nts)	
	Hunting:		evidence of d		nd		
			Jennifer				
	Nature:		not kno	wn			
	Fishing:		Low Marsh Hab	oitat Pre	esent		
			Jennifer	Noel			
	Recreation	nal Act	ivities Score (ma	ximum	80 points)		16

Wetlands Manual 2.3 LANDSCAPE AESTHETICS		May 1994
2.3 LANDSCAPE AESTHETICS		
core using ortho-aerial photography		
.3.1 DISTINCTNESS		
(Check one)	Score (Choose	one)
Clearly distinct 1) 3	3 points	
Indistinct 2)	0	
Landscape Distin	nctness Score (maximum 3 points)	3
.3.2 ABSENCE OF HUMAN DISTURBANCE		
(0)	g (GI	`
(Check one)	Score (Choose	one)
Human disturbances absent or nearly so	1) 7 points	
One or several localized disturbances	2) 4 4	
Moderate disturbance; localized water pollution	3)2	
Wetland intact but impairment of ecosystem quality		
intense in some areas	4)1	
Extreme ecological degradation, or water pollution		
severe and widespread	5)0	
	access to wetland	
	Jennifer Noel	
Absence of Human Dis	sturbance Score (maximum 7 points)	4
2.4 EDUCATION AND PUBLIC AWARENESS		
Optional: complete as time and scoring dictates.		
1.1 EDITO ETTONIA VIGEO		
.4.1 EDUCATIONAL USES	g (g)	
(Check one)	Score (Choose	one)
(Check one) Frequent 1)	20 points	one)
(Check one) Frequent 1) Infrequent 2)	20 points 12	one)
(Check one) Frequent 1)	20 points	one)
(Check one) Frequent 1) Infrequent 2) No visits 3) 0	20 points 12 0	one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information:	20 points 12	one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education.	20 points 12 0 Jennifer Noel	
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education.	20 points 12 0	one)
(Check one) Frequent 1) Infrequent 2) No visits 3) 0 Source of information: Requires contact with Local Boards of Education. Educations	20 points 12 0 Jennifer Noel	
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education.	20 points 12 0 Jennifer Noel	
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS	20 points 12 0 Jennifer Noel I Uses Score (maximum 20 points)	0
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one)	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points)	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) 0 Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points)	0
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points) Sc 1) Sc 8	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educationa 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points)	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips)	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points) Sc 1) Sc 8	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) 0 Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips) boardwalks, boat launches or observation towers	20 points 12 0 Jennifer Noel Al Uses Score (maximum 20 points) Sc 1) 2) 4	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educationa 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips) boardwalks, boat launches or observation towers but no brochures or other interpretation	20 points 12 0 Jennifer Noel I Uses Score (maximum 20 points) Sc 1) 2) 4 3) 2	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) 0 Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips) boardwalks, boat launches or observation towers	20 points 12 0 Jennifer Noel Al Uses Score (maximum 20 points) Sc 1) 2) 4	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips) boardwalks, boat launches or observation towers but no brochures or other interpretation No facilities or programs	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points) Sc 1) 2) 4 3) 4 0 0	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: Requires contact with Local Boards of Education. Educationa 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips) boardwalks, boat launches or observation towers but no brochures or other interpretation	20 points 12 0 Jennifer Noel I Uses Score (maximum 20 points) Sc 1) 2) 4 3) 2	0 ore (Choose one)
(Check one) Frequent 1) Infrequent 2) No visits 3) 0 Source of information: Requires contact with Local Boards of Education. Educations 4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips) boardwalks, boat launches or observation towers but no brochures or other interpretation No facilities or programs Source of information:	20 points 12 0 Jennifer Noel Il Uses Score (maximum 20 points) Sc 1) 2) 4 3) 4 0 0	0 ore (Choose one)

Southern Ontario Wetland Evaluation	n, Data and Scoring	g Reco	rd]	May 1994
Wetlands Manual	1						
2.4.3 RESEARCH AND STUDIES						Caama	
(check appropriate spaces) Long term research has been done						Score	
C	ad sajantifia					12 points	
Research papers published in referee journal or as a thesis	ed scientific					10	
One or more (non-research) reports	hava baan writtan					10	
on some aspect of the wetland 's flo							
hydrology etc.	ia iaulia					5	
No research or reports			0)		0	
140 research of reports	Subto	tal·	0			O .	
Attach list of known reports by abov		······					
Refer to ESPA, EPA and ANSI reports.	e categories						
	udies Score (Score	e is cu	mulative. m	aximu	m 12	points)	0
21030012021 0220 030		25 00				P 0-11103)	<u> </u>
2.5 PROXIMITY TO AREAS OF H	UMAN SETTLEN	MENT	1				
Circle the highest applicable score							
Distance of wetland from	1)		2) po	pulatio	on	3) po	pulation
settlement	population> 10	,000		0 -10,0			or cottage
						COI	mmunity
1) Within or adjoining	40 points		26			16	
settlement	1						
2) 0.5 to 10 km from settlement	26		16			10	10
3) 10 to 60 km from settlement	12		8			4	
4) >60 km from settlement	5		2			0	
		0			0		10
					•		
Name of settlement:	Irish L	ake, (Ontario				
Prox	imity to Human S	ettlen	ent Score (n	naxim	um 40) points)	10
2.6 OWNERSHIP (FA= fraction Are						Score	
Select a default value of ''4'' if no other i	•						
FA of wetland in public or private o	•						
held under contract or in trust for we	-			X	10	= 0.00	
FA of wetland area in public owners			1.00	X	8	= 0.00	
FA of wetland area in private owner	ship,not as above		1.00	X	4	= 4.00	
			c				
Source of information:	land owernsh	np dat	a from Client	t			
		0		(•	10 ! 4)	4
		Own	ership Score	(max	ımum	10 points)	4
	13						

Additional Reports
Upper Main Saugeen River Watershed Report Card 2008, Saugeen Conservation Authority
Distribution and Status of the Vascular Plants of Southwestern Ontario. Oldham, M.J. 1993

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2.7 **SIZE**

The score may be lower than actual since economic and recreational values have not been completed.

44.5 hectares 48 Subtotal for Social

Evaluation Table for Size Score (Social Component)

Evaluation '	Table	for Size Sco	re (Social Co	omponent)						
Wetland Size (ha)	Total for Size Dependent Score									
	<31	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136-150	>150
<2 ha	1	2	4	8	10	12	14	14	14	15
2 - 4ha	1	2	4	8	12	13	14	14	15	16
5 - 8ha	2	2	5	9	13	14	15	15	16	16
9 - 12ha	3	3	6	10	14	15	15	16	17	17
13-17	3	4	7	10	14	15	16	16	17	17
18-28	4	5	8	11	15	16	16	17	17	18
29-37	5	7	10	13	16	17	18	18	19	19
38-49	5	7	10	13	16	17	18	18	19	20
50-62	5	8	11	14	17	17	18	19	20	20
63-81	5	8	11	15	17	18	19	20	20	20
82-105	6	9	11	15	18	18	19	20	20	20
106-137	6	9	12	16	18	19	20	20	20	20
138-178	6	9	13	16	18	19	20	20	20	20
179-233	6	9	13	16	18	20	20	20	20	20
234-302	7	9	13	16	18	20	20	20	20	20
303-393	7	9	14	17	18	20	20	20	20	20
394-511	7	10	14	17	18	20	20	20	20	20
512-665	7	10	14	17	18	20	20	20	20	20
666-863	7	10	14	17	19	20	20	20	20	20
864-1123	8	12	15	17	19	20	20	20	20	20
1124-1460	8	12	15	17	19	20	20	20	20	20
1461-1898	8	13	15	18	19	20	20	20	20	20
1899-2467	8	14	16	18	20	20	20	20	20	20
>2467	8	14	16	18	20	20	20	20	20	20

Total Size Score (Social Component)

10.0

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2.8 ABORIGINAL AND CULTURAL HERITAGE VALUES

Either or both Aboriginal or Cultural Values may be scored. However, the maximum score permitted for 2.8 is 30 points. Attach documentation.

2.8.1 ABORIGINAL VALUES

Full documentation of sources must be attached to the data record.

2.8.2 CULTURAL HERITAGE

Aboriginal Values/Cultural Heritage Score (maximum 30 points)

0.0

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3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

Estimated&Calculated values can be obtained from G.I.S. data layers.

If the wetland is a complex including isolated wetlands, apportion the 100 points according to area. For example if 10 ha of a 100 ha complex is isolated, the isolated portion receives the maximum proportional score of 10. The remainder of the wetland is then evaluated out of 90.

Step 1:	Detennination of Maximum Score		
	Wetland is located on one of the de	fined 5 large lakes or 5 majo	or rivers
	(Go to Step 4)		
	Wetland is entirely isolated (i.e. no	t part of a complex) (Go to S	tep 4)
X	All other wetland types (Go through		•
Step 2:	Determination of Upstream Detenti	on Factor (DF)	
(a)	Wetland area (ha)		43.88
(b)	Total area (ha) of upstream detention (include the wetland itself)	on areas	91.97 estimate
(c)	Ratio of (a):(b)		0.48
(d)	Upstream detention factor: (c) x 2 = (maximum allowable factor = 1)	1.0	0.95
Step 3:	Determination of Wetland Attenuat	ion Factor (AF)	
(a)	Wetland area (ha)		43.88
(b)	Size of catchment basin (ha) upstre	am of wetland	
, ,	(include wetland itself in catchment		552.97 calculate
(c)	Ratio of (a):(b)		0.08
(d)	Wetland attenuation factor: (c) x 10 (maximum allowable factor = 1)	0.8	0.79
Step 4:	Calculation of final score		
(a)	Wetlands on large lakes or major ri	vers	0
(b)	Wetland entirely isolated		100
(b)	All other wetlandscalculate as fol	llows:	
(0)	(c * Complex Formula - Isolated porti		
	Initial Score	J. J	100 *
	Upstream detention factor (DF) (St	ep 2)	0.95
	Wetland attenuation factor (AF) (S		0.79
	Final score: [(DF + AF)/2] x Initial	•	87.39
	(c * Final score:=	88	
	*Unless wetland is a complex with	isolated portions (see above)).
	Flood Atto	enuation Score (maximum l	100 points) 100.0
	16		

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3.2 WATER QUALITY IMPROVEMENT

3.2.1 SHORT TERM WATER QUALITY IMPROVEMENT

(FA= area of site type/total area of wetland)

Step 1: Determination of maximum initial score

Wetland on one of the 5 defined large lakes or 5 major rivers (Go to Step 5a)

All other wetlands (Go through Steps 2, 3, 4, and 5b)

Step 2: Determination of watershed improvement factor (WIF)

Calculation of WIF is based on the fractional area (FA) of each site type that makes up the total area of the wetland.

Area FA of isolated wetland 0.01 0.5 0.01 0.00 0.00 FA of riverine wetland 1 = FA of palustrine wetland with no inflow 0.7 0.00 = X 0.99 0.99 FA of palustrine wetland with inflows 1 FA of lacustrine on lake shoreline 0.00 0.2 =0.00 FA of lacustrine at lake inflow or outflow = 0.00 X 1 0.99 Sub Total:

Fractional

- Step 3: Determination of catchment land use factor (LUF)
 (Choose the first category that fits upstream landuse in the catchment.)
 - 1) 1.0 Over 50% agricultural and/or urban 1.0
 2) Between 30 and 50% agricultural and/or urban 0.8
 3) Over 50% forested or other natural vegetation 0.6

LUF (maximum 1.0)

Sum (WIF cannot exceed 1.0)

1.00

0.99

Step 4: Determination of pollutant uptake factor (PUT)

Calculation of PUT is based on the fractional area (FA) of each vegetation type that makes up the total area of the wetland. Base assessment on the dominant vegetation form for each community except where dead trees or shrubs dominate. In that case base assessment on the domininant live vegetation. (FA = area of vegetation type/total area of wetland)

FA of wetland with live trees, shrubs, Fractional Area herbs or mosses (c,h,ts,ls,gc,m) 0.96 x0.75 =0.72 FA of wetland with emergent, submergent or floating vegetation (re,be,ne,su,f,ff) 0.04 0.04 1 = FA of wetland with little or no vegetation (u) 0.00 0.5 =0.00 Subtotal: 0.76

Estimate FA from air photos or use default factor of "0.75"

Sum (PUT cannot exceed 1.0)

0.76

Sout	hern Ontario Wetland Evaluation,Data and Scoring Record	Ma	y 1994
	ds Manual	1714	.y 100 i
Step 5:	Calculation of final score		
(-)	Wedland on languights on major rivers	0	
(a) (b)	Wetland on large lakes or major rivers All other wetlands -calculate as follows	0	
(0)	Initial score	60	
	Water quality improvement factor (WQF)	0.99	
	Land use factor (LUF)	1.00	
	Pollutant uptake factor (PUT)	0.76	
	Final score: 60 x WQF x LUF x PUT =	45.35	
	Short Term Water Quality Improvement Score (ma	aximum 60 points)	45
		• /	
3.2.2	LONG TERM NUTRIENT TRAP		
Determin	e wetland type from aerial photos and soil type from OMAF soils m	eaps.	
Step 1:			
	Wetland on large lakes or 5 major rivers	0 points	
	X All other wetlands (proceed to Step 2)		
Step 2:	Choose only one of the following settings that best describes	the wetland being evaluated	
1)	Wetland located in a river mouth	10 points	
2)	Wetland is a bog, fen or swamp with more than		
	50% of the wetland being covered with		
	organic soil	10	
3)	Wetland is a bog, fen or swamp with less than		
	50% of the wetland being covered with	_	
45	organic soil	3	
4)	Wetland is a marsh with more than	2	
5)	50% of the wetland covered with organic soil None of the above	3 0	
	Long Term Nutrient Trap Score (maximum 10 points)	3
	10		
	18		

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3.2.3 GROUNDWATER DISCHARGE

The final score will be underestimated since some of the wetland characteristics cannot be scored

(Circle the characteristics that best describe the wetland being evaluated and then sum the scores. If the sum exceeds 30 points assign the maximum score of 30.)

Wetland	Potential for Discharge								
Characteristics									
	None to Little		Some	High					
Wetland type	$1) \operatorname{Bog} = 0$		2) Swamp/Marsh = 2	2	3) Fen = 5	5			
Topography	1) Flat/rolling = 0		2) Hilly = 2	2	3) Steep = 5				
Wetland	Large (>50%) = 0		Moderate (5-50%)		Small $<$ (5%) = 5				
Area: Upslope			= 2	2					
Catchment Area									
Lagg Development	1) None found = 0	0	2) Minor = 2		3) Extensive = 5				
Seeps	1) None = 0		2) = or < 3 seeps = 2		3) > 3 seeps = 5	5			
Surface marl deposits	1) None = 0		2) = or < 3 sites = 2	2	3) > 3 sites = 5				
Iron precipitates	1) None = 0	0	2) = or < 3 sites = 2		3) > 3 sites = 5				
Located within 1 km	N/A = 0		N/A = 0		Yes = 10				
of a major aquifer		0							
Totals		0		8		10			

	Caamaaama	aumanlatirea		20000 20	mainta)
(Scores are	cumulative	maximum	score 50	pomis

Percentage of Catchment: 0.08

Groundwater Discharge Score (maximum 30 points)

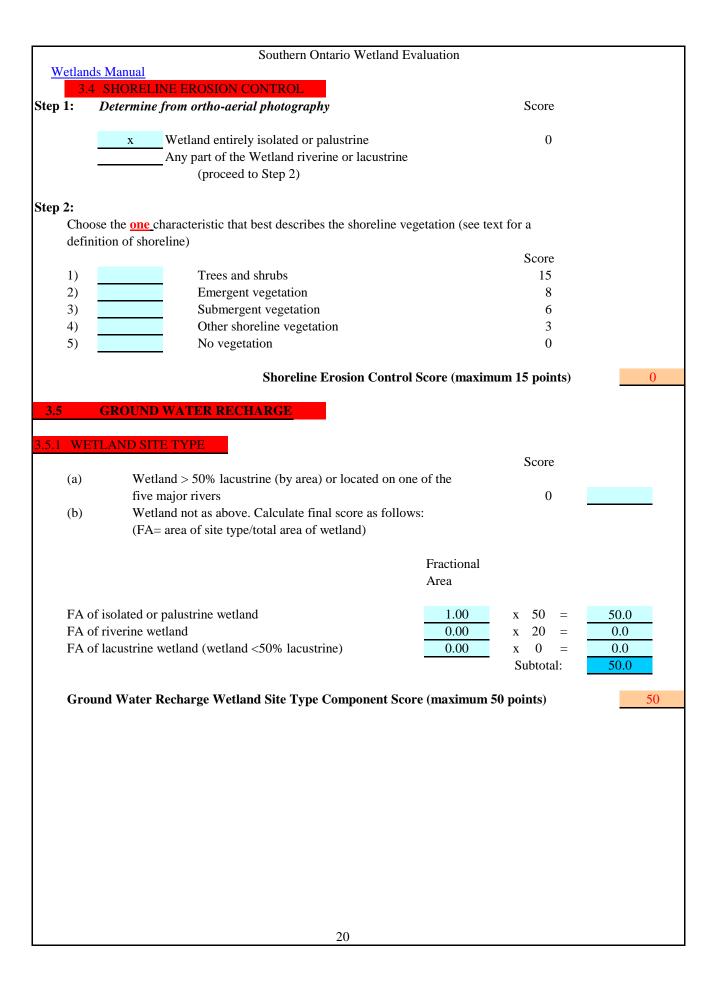
18

3.3 CARBON SINK

Choose only one of the following

- 1) Bog, fen or swamp with more than 50% coverage by organic soil 5 points
- 2) Bog, fen or swamp with between 10 to 49% coverage by organic soil 2
- 3) Marsh with more than 50% coverage by organic soil 3 3
 4) Wetlands not in one of the above categories 0
 - Carbon Sink Score (maximum 5 points)

3



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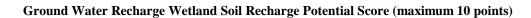
Wetlands Manual

3.5.2 WETLAND SOIL RECHARGE POTENTIAL

Determine from OMAF soils maps.

(Circle only <u>one</u> choice that best describes the hydrologic soil class of the area surrounding the wetland being evaluated.)

	Dominant Wetland Type	1) Sand, loam, gravel, till		2) Clay or bedrock	
1)	Lacustrine or on a major	0		0	
	river				
2)	Isolated	10		5	
3)	Palustrine	7	7	4	
4)	Riverine (not a major river)	5		2	
Tota	ıls	7		0	



7

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY

Ref Map

Site District 6E-5

Presence of wetland type (check one or more)

Bog Fen Swamp Marsh X

Score for rarity within the landscape and rarity of the wetland type. Score for rarity of wetland

type is cumulative (maximum 80 points) based on presence or absence.

	Score for Rarity within	o points) based on pre-		ty of Wetland Type	
Slte District	the Landscape	Marsh	Swamp	Fen	Bog
6-1	60	40	0	80	80
6-2	60	40	0	80	80
6-3	40	10	0	40	80
6-4	60	40	0	80	80
6-5	20	40	0	80	80
6-6	40	20	0	80	80
6-7	60	10	0	80	80
6-8	20	20	0	80	80
6-9	0	20	0	80	80
6-10	20	0	20	80	80
6-11	0	30	0	80	80
6-12	0	30	0	60	80
6-13	60	10	0	80	80
6-14	40	20	0	40	80
6-15	40	0	0	80	80
7-1	60	0	60	80	80
7-2	60	0	0	80	80
7-3	60	0	0	80	80
7-4	80	0	0	80	80
7-5	60	20	0	80	80
7-6	80	30	0	80	80

Rarity within the Landscape Score (maximum 80 points) **Rarity of Wetland Type Score (maximum 80 points)**

20
80

The updated scores for rarity in Site Region 7-5 are in the stages of review and still require official confirmation.(June 8, 2004)

	Ontario Wetland Evaluation,	Data and Scoring Record	Decembe	er 2002
Wetlands Ma				
1.2 SPECIE	S Spp Ref			
4.1.2.1	DDEEDING HADITAT	EOD AN ENDANCEDI	ED OR THREATENED SPECIES	
4.1.2.1	DREEDING HADITAT	FUR AIN ENDANGERI	ED OR THREATENED STECIES	_
Nar	ne of species		Source of information	
	<u>.</u>			
1)	None found		Dave Martin	
2)				
3)				
4)				
5)				
	Total:	0		
tach documer	ntation.	<u> </u>	_	
coring:				
For each s	species	250 points		
core is cumula	ative, no maximum score)			
	D	J	1 C	0
	Breeding Habitat for End	dangered or Inreatened	l Species Score (no maximum)	0
4122TI	RADITIONAL MIGRATIC	ON OR FEEDING HAR	ITAT FOR AN ENDANGERED	
	EATENED SPECIES	on Debut of the	THE TORRING ENGLISHED	
	ne of species		Source of information	
1)	None found		Dave Martin	
2)				
3)				
4)				
5)				
	Total:	0		
<u> </u>		I		
tach documer	ntation.			
coring:				
For one sp		150 points		
For each a	additional species	75		
. ,				
core is cumula	ntive, no maximum score)			
	Traditional Habita	t for Endangered Specie	og Caara (na maximum)	0
	Traumonai Habita	t for Endangered Specie	is score (no maximum)	U
		23		

Southern Ontario Wetland Evaluation, Data and Scoring Record Wetlands Manual 4.1.2.3 PROVINCIALLY SIGNIFICANT ANIMAL SPECIES

March 1993

Prov Ref

Name of species

Source of information

1)	snapping turtle (S3)	_	NHIC, MNR
2)			
3)		-	
4)	_	-	
5)	_	-	
6)		-	
7)		-	
8)		-	
9)		-	
10)		-	
11)		-	
12)		-	
13)		-	
14)		-	

Attach separate list if necessary; Attach documentation

Scoring:

15)

Number of provincially significant animal species in the wetland:

1	species	=	50 points	14 species	=	154
2	species	=	80	15 species	=	156
3	species	=	95	16 species	=	158
4	species	=	105	17 species	=	160
5	species	=	115	18 species	=	162
6	species	=	125	19 species	=	164
7	species	=	130	20 species	=	166
8	species	=	135	21 species	=	168
9	species	=	140	22 species	=	170
10	species	=	143	23 species	=	172
11	species	=	146	24 species	=	174
12	species	=	149	25 species	=	176
13	species	=	152			

Add one point for every species past 25 (for example, 26 species = 177 points, 27 species = 178 points etc.)

(no maximum score)

Provincially Significant Animal Species Score (no maximum)

50

4.1.2.4 PROVINCIALLY SIGNIFICANT PLANT SPECIES

(Scientific names must be recorded)

Common Name

Scientific Name

Source of information

1)	None known	Viburnum acerifolium	NHIC, MNR
2)		#N/A	
3)		#N/A	
4)		#N/A	
5)		#N/A	
6)		#N/A	
7)		#N/A	
8)		#N/A	
9)		#N/A	
10)		#N/A	
11)		#N/A	
12)		#N/A	
13)		#N/A	
14)		#N/A	
15)		#N/A	

Attach separate list if necessary; Attach documentation

Scoring:

Number of provincially significant plant species in the wetland:

1 species	=	50 points	14 species	=	154
2 species	=	80	15 species	=	156
3 species	=	95	16 species	=	158
4 species	=	105	17 species	=	160
5 species	=	115	18 species	=	162
6 species	=	125	19 species	=	164
7 species	=	130	20 species	=	166
8 species	=	135	21 species	=	168
9 species	=	140	22 species	=	170
10 species	=	143	23 species	=	172
11 species	=	146	24 species	=	174
12 species	=	149	25 species	=	176
13 species	=	152			

Add one point for every species past 25 (for example, 26 species = 177 points, 27 species = 178 points etc.)

Provincially Significant Plant Species Score (no maximum)

0

December 2002

4.1.2.5 REGIONALLY SIGNIFICANT SPECIES (SITE REGION) Spp Ref

Scientific names must be recorded for plant species. Lists of significant species must be approved by MNR.

SIGNIFICANT IN SITE REGION:

Common Name Scientific Name Source of information 1) none known Jennifer Noel 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15)

Attach separate list if necessary .Attach documentation.

Scoring:

No. of species significant in Site Region

=	20	6 species	=	55
=	30	7 species	=	58
=	40	8 species	=	61
=	45	9 species	=	64
=	50	10 species	=	67
	= = = =	= 30 = 40 = 45	= 30 7 species = 40 8 species = 45 9 species	= 30 7 species = = 40 8 species = = 45 9 species =

Add one point for every species past 10. (no maximum score)

Regionally Significant Species Score (Site Region)(no maximum)

0

Black Property Wetland Complex Vascular Plant list

Scientific Name	rty Wetland Complex Vascular Plant Common Name	GRank	SRank	MNR	COSEWIC	Local Status
SPHAGNACEAE	PEAT MOSS FAMILY				Ĭ	
Sphagnum sp.	peat moss	G5	S5			
EQUISETACEAE	HORSETAIL FAMILY					
Equisetum arvense	field horsetail	G5	S5			
Equisetum palustre	marsh horsetail	G5	S5			R
Equisetum scirpoides	dwarf scouring-rush	G5	S5			U
Equisetum variegatum ssp. variegatum	variegated horsetail	G5T	S5			U
OSMUNDACEAE	ROYAL FERN FAMILY					
Osmunda cinnamomea	cinnamon fern	G5	S5			
Osmunda claytoniana	interrupted fern	G5	S5			U
Osmunda regalis var. spectabilis	royal fern	G5T	S5			
DENNSTAEDTIACEAE	BRACKEN FERN FAMILY					
Pteridium aquilinum var. latiusculum	eastern bracken-fern	G5T	S5			
THELYPTERIDACEAE	MARSH FERN					
Thelypteris palustris var. pubescens	marsh fern	G5T?	S5			
DRYOPTERIDACEAE	WOOD FERN FAMILY					
Athyrium filix-femina var. angustum	northern lady fern	G5T5	S5			
Cystopteris bulbifera	bulbet bladder fern	G5	S5			
Dryopteris carthusiana	spinulose wood fern	G5	S5		\vdash	
Dryopteris cartinasiana Dryopteris cristata	crested wood fern	G5	S5			
, ,	oak fern	G5	S5			
Gymnocarpium dryopteris	ostrich fern	G5	S5			
Matteuccia struthiopteris var. pensylvanica						
Onoclea sensibilis	sensitive fern	G5	S5			
PINACEAE	PINE FAMILY					
Abies balsamea	balsam fir	G5	S5			
Larix laricina	tamarack	G5	S5			
Picea glauca	white spruce	G5	S 5			
Tsuga canadensis	eastern hemlock	G5	S5			
CUPRESSACEAE	CEDAR FAMILY					
Thuja occidentalis	eastern white cedar	G5	S5			
NYMPHAEACEAE	WATER-LILY FAMILY					
Nuphar variegata	bulhead pond-lily	G5	S5			
RANUNCULACEAE	BUTTERCUP FAMILY					
Caltha palustris	marsh-marigold	G5	S5			
Clematis virginiana	virgin's-bower	G5	S5			
Coptis trifolia	goldthread	G5T5	S5			
* Ranunculus acris	tall buttercup	G5	SE5			ı
ULMACEAE	ELM FAMILY					
Ulmus americana	white elm	G5?	S5			
URTICACEAE	NETTLE FAMILY					
Laportea canadensis	wood nettle	G5	S5			
URTICACEAE	NETTLE FAMILY					
* Urtica dioica ssp. dioica	European stinging nettle	G5T?	SE2			- 1
FAGACEAE	BEECH FAMILY					
Fagus grandifolia	American beech	G5	S5			
BETULACEAE	BIRCH FAMILY					
Betula alleghaniensis	yellow birch	G5	S5			
Ostrya virginiana	ironwood	G5	S5			
PORTULACACEAE	PURSLANE FAMILY	1				
Claytonia virginica	Virginia spring beauty	G5	S 5			Rh
POLYGONACEAE	SMARTWEED FAMILY	95	33			1111
* Polygonum hydropiper	water-pepper	G5	SE5		1	- 1
* Polygonum persicaria	lady's-thumb	G?	SE5			<u>'</u>
* Rumex crispus	curly-leaf dock	G?	SE5			<u> </u>
	ST. JOHN'S-WORT FAMILY	G!	303		1	- 1
GUTTIFERAE	31. JUNIN 3-WUKI FAIVIILY				1	

	Scientific Name	Common Name	GRank	SRank	MNR	COSEWIC	Local Status
	Hypericum perforatum	common St. John's-wort	G?	SE5		Ĭ	
	SARRACENIACEAE	PITCHER-PLANT FAMILY					
	Sarracenia purpurea	pitcher-plant	G5	S5			
	DROSERACEAE	SUNDEW FAMILY					
	Drosera rotundifolia	round-leaved sundew	G5	S5			
	VIOLACEAE	VIOLET FAMILY					
	Viola sp.	violet					
	SALICACEAE	WILLOW FAMILY					
	Populus balsamifera ssp. balsamifera	balsam poplar	G5T?	S5			
	Populus grandidentata	large-tooth aspen	G5	S5			
	Populus tremuloides	trembling aspen	G5	S5			
	Salix bebbiana	long-beaked willow	G5	S5			
	Salix discolor	pussy willow	G5	S5			
	Salix eriocephala	Missouri willow	G5	S5			U
	Salix petiolaris	slender willow	G4	S5			
┢	Salix sp.	willow	- J	33		1	
*	Salix X rubens	reddish willow	НҮВ	sE4		1	
H	BRASSICACEAE	MUSTARD FAMILY	IIID	JL4			
		two-leaved toothwort	G5	S5			
	Cardamine diphylla		GO	35			
	ERICACEAE	HEATH FAMILY	CETE	C.F.			
-	Andromeda polifolia var. glaucophylla	bog rosemary	G5T5	S5			
	Chamaedaphne calyculata	leatherleaf	G5	S5			
	Gaultheria procumbens	wintergreen	G5	S5			U
	Kalmia angustifolia	sheep laurel	G5	S5			
	Vaccinium oxycoccos	small cranberry	G5	S5			U
	PYROLACEAE	WINTERGREEN FAMILY					
	Pyrola asarifolia	pink pyrola	G5	S5			
	PRIMULACEAE	PRIMROSE FAMILY					
	Lysimachia ciliata	fringed loosestrife	G5	S5			
	Trientalis borealis ssp. borealis	star-flower	G5T?	S5			
	GROSSULARIACEAE	GOOSEBERRY FAMILY					
	Ribes americanum	wild black currant	G5	S 5			
	Ribes cynosbati	prickly gooseberry	G5	S5			
	Ribes triste	wild red currant	G5	S5			
	SAXIFRAGACEAE	SAXIFRAGE FAMILY					
	Mitella nuda	naked mitrewort	G5	S5			
	Parnassia glauca	American grass-of-parnassus	G5	S5			
	Tiarella cordifolia	false mitrewort	G5	S5			
	ROSACEAE	ROSE FAMILY					
	Agrimonia gryposepala	tall hairy agrimony	G5	S5			
	Comarum palustre	marsh cinquefoil	G5	S5			
	Fragaria virginiana ssp. virginiana	scarlet strawberry	G5T?	SU			
T	Geum aleppicum	yellow avens	G5	S5			
T	Geum macrophyllum	large-leaved avens	G5	S5			
	Photinia melanocarpa	black chokeberry	G5	S5			
H	Prunus serotina	black cherry	G5	S5			
H	Prunus virginiana var. virginiana	choke cherry	G5T?	S5			
H	Rubus idaeus ssp. strigosus	wild red raspberry	G5T	S5			
H	Rubus pubescens	dwarf raspberry	G5	S5			
H	Sorbus americana	American mountain-ash	G5	S5		1	R
	FABACEAE	PEA FAMILY	33	33		1	- 1
*	Vicia cracca	tufted vetch	G?	SE5			ı
\vdash	ONAGRACEAE	EVENING-PRIMROSE FAMILY	0:	JLJ		1	'
-		yellowish enchanter's nightshade	G5T5	S5		1	
┝	Circaea lutetiana ssp. canadensis					1	
*	Epilobium ciliatum ssp. glandulosum	northern willow-herb	G5T?	SU		1	
T.	Epilobium hirsutum	great hairy willow-herb	G?	SE5			l I

	Scientific Name	Common Name	GRank	SRank	MNR	COSEWIC	Local Status
	Epilobium sp.	willow-herb					
	CORNACEAE	DOGWOOD FAMILY					
	Cornus alternifolia	alternate-leaved dogwood	G5	S5			
	Cornus canadensis	bunchberry	G5	S5			
	Cornus sericea ssp. sericea	red-osier dogwood	G5	S5			
	RHAMNACEAE	BUCKTHORN FAMILY					
	Rhamnus alnifolia	alder-leaved buckthorn	G5	S5			
	VITACEAE	GRAPE FAMILY					
	Parthenocissus vitacea	inserted Virginia-creeper	G5	S5			
	Vitis riparia	riverbank grape	G5	S5			
	ACERACEAE	MAPLE FAMILY					
	Acer pensylvanicum	striped maple	G5	S5			R
	Acer rubrum	red maple	G5	S5		1	
	Acer saccharum var. saccharum	sugar maple	G5T?	S5			
	ANACARDIACEAE	SUMAC FAMILY	U 31.	33			
	Toxicodendron radicans ssp. negundo	poison-ivy	G5T	S5		+	
	OXALIDACEAE	WOOD SORREL FAMILY	931	33			
	Oxalibaceae Oxalis stricta	upright yellow wood-sorrel	G5	S5		-	
			G5	55			
	GERANIACEAE	GERANIUM FAMILY				1	
*	Geranium robertianum	herb-robert	G5	SE5			I
	BALSAMINACEAE	TOUCH-ME-NOT FAMILY					
	Impatiens capensis	spotted touch-me-not	G5	S5			
	ARALIACEAE	GINSENG FAMILY					
	Aralia nudicaulis	wild sarsaparilla	G5	S5			
	APIACEAE	PARSLEY FAMILY					
	Cicuta bulbifera	bulb-bearing water-hemlock	G5	S5			
	Cicuta maculata	spotted water-hemlock	G5	S5			
*	Daucus carota	wild carrot	G?	SE5			ı
	Sanicula marilandica	black snakeroot	G5	S5			
	Sium suave	hemlock water-parsnip	G5	S5			
	ASCLEPIADACEAE	MILKWEED FAMILY					
	Asclepias incarnata ssp. incarnata	swamp milkweed	G5T5	S5			
	Asclepias syriaca	common milkweed	G5	S5			
	SOLANACEAE	POTATO FAMILY					
*	Solanum dulcamara	bitter nightshade	G?	SE5		1	1
	MENYANTHACEAE	BUCKBEAN FAMILY	U:	JLJ			'
		three-leaved buckbean	G5	S5			
	Menyanthes trifoliata		G5	33			
	LAMIACEAE	MINT FAMILY	C.F.	CE		-	
	Lycopus uniflorus	northern water-horehound	G5	S5		-	
	Mentha arvensis	American wild mint	G5T5	S5		<u> </u>	
*	Prunella vulgaris ssp. vulgaris	common heal-all	G5T?	SE3		-	
	Scutellaria lateriflora	mad-dog skullcap	G5	S5		<u> </u>	
	OLEACEAE	OLIVE FAMILY					
	Fraxinus nigra	black ash	G5	S5			
	Fraxinus pennsylvanica	red ash	G5	S5			
	SCROPHULARIACEAE	FIGWORT FAMILY					
	Chelone glabra	turtlehead	G 5	S5			
	CAMPANULACEAE	BLUEBELL FAMILY					
	Campanula aparinoides	marsh bellflower	G5	S5			
	Lobelia kalmii	Kalm's lobelia	G5	S5			
	Lobelia siphilitica	great lobelia	G 5	S5			R
	RUBIACEAE	MADDER FAMILY	1			1	· · ·
		rough bedstraw	G5	S5			
	Galium asprellum					1	ı
	Galium asprellum Galium nalustre						
	Galium asprellum Galium palustre Galium trifidum ssp. trifidum	marsh bedstraw small bedstraw	G5 G5T?	S5 S5			

	Common Name	GRank	SRank	MNR	COSEWIC	Local Status
CAPRIFOLIACEAE	HONEYSUCKLE FAMILY					
Linnaea borealis ssp. longiflora	twinflower	G5T?	S5			
Lonicera dioica	glaucous honeysuckle	G5	S5			
Lonicera oblongifolia	swamp fly honeysuckle	G4	S5			
Sambucus nigra ssp. canadensis	common elderberry	G5	S5		1	
Sambucus racemosa var. racemosa	red-berried elderberry	G5T4T5	S5		1	
Sambucus sp.	elderberry				1	
Viburnum lentago	nannyberry	G5	S5		1	
ASTERACEAE	ASTER FAMILY				1	
Aster lanceolatus ssp. lanceolatus	tall white aster	G5T?	S5		†	
Aster puniceus var. puniceus	purple-stemmed aster	G5T?	S5		1	
Aster sp.	aster				+-	
Bidens cernua	stick-tight	G5	S5		+	
Bidens frondosa	devil's beggar-ticks	G5	S5		+	
	black knapweed	G?	SE?		+	
Centaurea nigra					₩	I
Eupatorium maculatum var. maculatum	spotted joe-pye-weed	G5T5	S5		\vdash	
Eupatorium perfoliatum	perfoliate thoroughwort	G5	S5		₩	
Euthamia graminifolia	flat-topped bushy goldenrod	G5	S5		₩	<u> </u>
Hieracium sp.	hawkweed		<u> </u>		₩	
Prenanthes alba	white rattlesnake-root	G5	S5			U
Senecio congestus	marsh groundsel	G5	S5		<u> </u>	
Senecio sp.	groundsel	G?	S?			
Solidago canadensis	canada goldenrod	G5	S5			
Solidago rugosa ssp. rugosa	rough goldenrod	G5T?	S5			
Solidago uliginosa	marsh goldenrod	G4G5	S5			
Symphyotrichum puniceum var. puniceum	shining aster	G5T?Q	SU			
' Tussilago farfara	coltsfoot	G?	SE5			I
ALISMATACEAE	WATER-PLANTAIN FAMILY				1	
Sagittaria sp.	arrowhead				1	
JUNCAGINACEAE	ARROW-GRASS FAMILY				1	
Triglochin maritimum	seaside arrow-grass	G5	S5		1	R
ARACEAE	ARUM FAMILY				†	
Arisaema triphyllum ssp. triphyllum	small jack-in-the-pulpit	G5T5	S5		1	
Calla palustris	wild calla	G5	S5		+	U
LEMNACEAE	DUCKWEED FAMILY	- 65	33		+	l –
Lemna minor	lesser duckweed	G5	S5		+	
XYRIDACEAE	YELLOW-EYED GRASS FAMILY	0.5	33		+	
	northern yellow-eyed-grass	G4	S4		┼	
Xyris montana JUNCACEAE	RUSH FAMILY	G4	34		+	
		CET2	CF		┼	
Juncus effusus ssp. solutus	soft rush	G5T?	S5		-	
CYPERACEAE	SEDGE FAMILY	0.5	6.5		-	
Carex bebbii	Bebb's sedge	G5	S5		₩	
Carex flava	yellow sedge	G5	S5		↓	<u> </u>
Carex grayi	gray's sedge	G4	S4		₩	
Carex interior	inland sedge	G5	S5		<u> </u>	
Carex intumescens	bladder sedge	G5	S5			
Carex limosa	mud sedge	G5	S5			U
Carex lupulina	hop sedge	G5	S 5			
Carex sp.	sedge					
Carex stipata	awl-fruited sedge	G5	S5			
Carex vulpinoidea	fox sedge	G5	S5			
Curex varpinolaea	cyperus		S?		1	
Cyperus sp.					+	
Cyperus sp.	,,	G5?	S5			
Cyperus sp. Scirpus atrovirens	dark-green bulrush	G5? G5	S5 S5		1	
Cyperus sp.	,,	G5? G5	S5 S5			

Scientific Name	Common Name	GRank	SRank	MNR	COSEWIC	Local Status
* Bromus inermis ssp. inermis	awnless brome	G4G5T?	SE5			ı
Glyceria striata	fowl manna grass	G5	S5			
Leersia oryzoides	rice cut grass	G5	S5			
Phalaris arundinacea	reed canary grass	G5	S5			
Poa palustris	fowl meadow grass	G5	S5			
SPARGANIACEAE	BUR-REED FAMILY					
Sparganium eurycarpum	broad-fruited bur-reed	G5	S5			R
ТҮРНАСЕАЕ	CATTAIL FAMILY					
Typha angustifolia	narrow-leaved cattail	G5	S5			U
Typha latifolia	broad-leaved cattail	G5	S5			
LILIACEAE	LILY FAMILY					
Clintonia borealis	bluebead-lily	G5	S5			
Maianthemum canadense	wild lily-of-the-valley	G5	S5			
Maianthemum racemosum ssp. racemosum	false Solomon's seal	G5T	S5			
Maianthemum stellatum	star-flowered Solomon's seal	G5	S5			
Polygonatum pubescens	hairy Solomon's seal	G5	S5			
Tofieldia glutinosa ssp. brevistyla	sticky false asphodel	G5T4	S4?			R
IRIDACEAE	IRIS FAMILY					
Iris versicolor	multi-coloured blue-flag	G5	S5			
SMILACACEAE	CATBRIER FAMILY					
Smilax tamnoides	bristly greenbrier	G5Q	S4			
ORCHIDACEAE	ORCHID FAMILY					
Cypripedium calceolus var. pubescens	large yellow lady's slipper	G5T	S5			
* Epipactis helleborine	common helleborine	G?	SE5			I
Liparis loeselii	fen twayblade	G5	S4S5			U
Malaxis unifolia	green adder's-mouth	G5	S4S5			R
Platanthera hyperborea	tall leafy green orchis	G5	S5			
Pogonia ophioglossoides	rose pogonia	G5	S4S5			R

 $Local \ Species \ Status \ Olh dam \ 1993 \ Distribution \ and \ Status \ of the \ Vascular \ Plants \ of \ Southwestern \ Ontario.$

R Rare

U Uncommon

I Introduced

Rh Historic

December 2002

4.2.1.6 LOCALLY SIGNIFICANT SPECIES (SITE DISTRICT)

Scientific names must be recorded for plant species. Lists of significant species must be approved by MNR.

	Common Name	Scientific Name	Source of information		
1	marsh horsetail	Equisetum palustre	Oldham 1993		
2	dwarf scouring-rush	Equisetum scirpoides	Oldham 1993		
3	variegated horsetail	Equisetum variegatum	Oldham 1993		
4	interrupted fern	Osmunda claytoniana	Oldham 1993		
5	wintergreen	Gaultheria procumbens	Oldham 1993		
6	small cranberry	Vaccinium oxycoccos	Oldham 1993		
7	striped maple	Acer pensylvanicum	Oldham 1993		
8	great lobelia	Lobelia siphilitica	Oldham 1993		
9	white rattlesnake-root	Prenanthes alba	Oldham 1993		
10	seaside arrow-grass	Triglochin maritimum	Oldham 1993		
11	wild calla	Calla palustris	Oldham 1993		
12	mud sedge	Carex limosa	Oldham 1993		
13	broad-fruited bur-reed	Sparganium eurycarpum	Oldham 1993		
14	sticky false asphodel	Tofieldia glutinosa	Oldham 1993		
15	fen twayblade	Liparis loeselii	Oldham 1993		
16	green adder's-mouth	Malaxis unifolia	Oldham 1993		
17	rose pogonia	Pogonia ophioglossoides	Oldham 1993		
18	marsh rose	Rosa plaustris	Oldham 1993		

Attach separate list if necessary .Attach documentation.

Scoring:

No. of species significant in Site District

1 species	=	10	6 species	=	41
2 species	=	17	7 species	=	43
3 species	=	24	8 species	=	45
4 species	=	31	9 species	=	47
5 species	=	38	10 species	=	49

For each significant species over 10 in the wetland, add 1 point.

Locally Significant Species Score (Site District) (no maximum)

56

4.2 SIGNIFICANT FEATURES AND/OR FISH & WILDLIFE HABITAT

121	NESTING	OF COLON	IAI WATERI	RIRDS

	Status	Name of species	Source of Information	Sc	core
1)	Currently nesting			50	
2)	Known to have nested within past 5 years			25	
3)	Active feeding area (Do not include feeding by great blue herons)			15	
4)	None known	none found	Dave Martin	0	0

Consult the Ontario Heronry database at Bird Studies Canada.

Subtotal:

Attach documentation (nest locations etc., if known)

Score highest applicable category only; maximum score 50 points.

Score for Nesting Colonial Waterbirds (maximum 50 points)

0

WINTER COVER FOR WILDLIFE

Score ''locally significant'' if trees & shrubs are present, also consult District deer yard data.

(Check only highest level of significance)

Score

	(one only)
1)	Provincially significant
2)	Significant in Site Region
3)	Significant in Site Distr

significant 100 Site Region 50 Significant in Site District 25

Locally significant 3) 4)

10 Little or poor winter cover present 0

Source of information: MNR LIO layer

Winter Cover for Wildlife Score (maximum 100 points)

0

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	nds Manual	,				
	ATERFOWL STAGING AND	OR MOUL	TING			
(Check on	nly highest level of significance	for both sta	ging and moultin	g; score is cumu	ılative	
across col	umns, maximum score 150					
		Staging	Score	Moulting	Score	
			(one only)		(one only)	
1)	Nationally significant		150		150	
2)	Provincially significant		100		100	
3)	Regionally significant		50		50	
4)	Known to occur		10		10	
5)	Not possible		0		0	
6)	Unknown	0	0	0	0	
	Total:	0		0		
-	Subtotal:		0			
Source of	information:		Dave Martin			
	Waterfow	l Moulting	and Staging Sco	ore (maximum	150 points)	0
4.2.4 WA	ATERFOWL BREEDING					
	(Check only highest level of	significance	e) Sc	ore		
1)	Provincially sign	nificant]	100		
2)	Regionally signi	ficant		50		
3)	Habitat suitable			10		
4)	0 Habitat not suita	ble		0		
Source of	information:		Dave Martin			
		Waterfov	vl Breeding Sco	e (maximum l	OO points)	0
4.2.5 MI	GRATOR PASSERINE, SHO	REBIRD O	R RAPTOR STO	POVER AREA	<u> </u>	
	(check highest applicable cat	egory)				
1)	Provincially sign]	100		
2)	Significant in Si	te Region		50		
3)	Significant in Si	te District		10		
4)	0 Not significant			0		
Source of	information:		Dave Martin			
	Passerine, Shor	ebird or Ra	aptor Stopover S	Score (maximur	n 100 points)	0
			20			

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4.2.6 FISH HABITAT

Consult District Fisheries files. If fish are present in the wetland, score 15 or 25 points depending on the size of the fish habitat present.

4.2.6. Spawning and Nursery Habitat

Table 5. Area Factors for Low Marsh, High Marsh, and Swamp Communities.

No. of ha of Fish Habitat	Area Factor	
< 0.5 ha	0.1	
0.5- 4.9	0.2	
5.0- 9.9	0.4	
10.0- 14.9	0.6	
15.0 -19.9	0.8	
20.0+ ha	1.0	
		_
Step 1:		

Fish habitat is not present within the wetland (Score = 0)

x Fish habitat is present within the wetland (Go to Step 2)

Choose only one option

1)	Significance of the spawning and nursery habitat within the wetland is known
	(Go to Step 3)

- 2) Significance of the spawning and nursery habitat within the wetland is not known (Go through Steps 4, 5, 6 and 7)
- **Step 3:** Select the highest appropriate category below attach documentation:

1)	Significant in Site Region	100 points	
2)	Significant in Site District	50	
3)	Locally Significant Habitat (5.0+ ha)	25	
4)	Locally Significant Habitat (<5.0 ha)	15	

Score for Spawning and Nursery Habitat (maximum score 100 points)

0

30

Step 2:

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Step 4:	Proceed to Steps	4 to 7	only if Step 3	was not answered
---------	-------------------------	--------	----------------	------------------

(Low Marsh: marsh area from the existing water line out to the outer boundary of the wetland)

Low marsh not present (Continue to Step 5)

x Low marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each Low Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16 Table 16-2) for each Low Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation	Vegetation	Present	Total	Area	Score	Final
Group Number	Group Name	as a	Area	Factor		Score
		Dominant	(ha)			(area
		Form		(see		factor
		(check)		Table 5)		x score)
1	Tallgrass				6 pts	0.0
2	Shortgrass-Sedge				11	0.0
3	Cattail-Bulrush-Burreed				5	0.0
4	Arrowhead-Pickerelweed				5	0.0
5	Duckweed				2	0.0
6	Smartweed-Waterwillow				6	0.0
7	Waterlily-Lotus		0.879	0.1	11	1.1
8	Waterweed-Watercress				9	0.0
9	Ribbongrass				10	0.0
10	Coontail-Naiad-Watermilfoil				13	0.0
11	Narrowleaf Pondweed				5	0.0
12	Broadleaf Pondweed				8	0.0
	Sub Total Score (m	naximum 75 poi	ints)			1.1
	Total Score (max	kimum 75 point	s)			1.1

Step 5: (**High Marsh**: area from the water line to the inland boundary of marsh wetland type. This is essentially what is commonly referred to as a wet meadow, in that there is insufficient standing water to provide fisheries habitat except during flood or high water conditions.)

X	High marsh not present (Continue to Step 6)
	High marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each High 1Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16 Table 16-2) for each High Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation	Vegetation	Present	Total	Area	Score	Final
Group Number	Group Name	as a	Area	Factor		Score
		Dominant	(ha)	(see		(area
		Form		Table 5)		factor
		(check)				x score)
1	Tallgrass				6 pts	0.0
2	Shortgrass-Sedge				11	0.0
3	Cattail-Bulrush-Burreed				5	0.0
4	Arrowhead-Pickerelweed	0			5	0.0
_	Sub Total Score (1	naximum 25	points)			0.0
	Total Score (ma	ximum 25 po	oints)			0.0

Step 6: (**Swamp**: Swamp communities containing fish habitat, either seasonally or permanently. Determine the total area of seasonally flooded swamps and permanently flooded swamps containing fish habitat.)

Swamp containing fish habitat not present (Continue to Step 7)
Swamp containing fish habitat present (Score as follows)

Swamp containing fish Habitat	Present (check)	Total area (ha)	Area Factor (see Table 5)	Score	TOTAL SCORE (factor x score)
Seasonally flooded				10	0.0
Permanently flooded Sub SC	ORE (maxi	um 20 poir	nts)	10	0.0
SCO	0.0				

Step 7: Calculation of final score

Score for Spawning and Nursery Habitat (Low Marsh) (maximum 75) = 1.1

Score for Spawning and Nursery Habitat (High Marsh) (maximum 25) = 0.0

Score for Swamp Containing Fish Habitat (maximum 20) = 0.0
Subtotal: 1.1

Sum (maximum score 100 points) =

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W	Vetlands Manual			• ,
	4.2.6.2 Migration and Staging Habitat	Score only if information on fish migration of northern pike through a	_	_
<u>Step</u>	<u>1:</u>	spawning areas.	t mountain to	uccess
1)	O Staging or Migration Habitat is not prese	ent in the wetland (Score $= 0$)		
2)	Staging or Migration Habitat is present i to Step 2)	n the wetland significance of the habitat is k	nown (Go	
3)		n the wetland significance of the habitat is no	ot known	
NOT	TE: Only <u>one</u> of Step 2 <u>or</u> Step 3 is to be scored	d.		
Step	2: Select the highest appropriate category be	elow, attach documentation:	~	
1)	Significant in Site Region		Score 25 points	
2)	Significant in Site District		15	
3)	Locally Significant		10	
4)	Fish staging and/or migration habitat present,but not as above		5	
	Score for Fish Migration and Sta	aging Habitat (maximum score 25 points)		0
Step (does	3: Select the highest appropriate category be not have to be dominant). See Section 1.1.3. No	below based on presence of the designated since the name of river for 2) and 3).	te type	
1)	Wetland is riverine at rivermouth or lacus	strine at rivermouth	Score 25 points	
2)	Wetland is riverine, within 0.75 km of riverine.	ermouth	15	
3)	Wetland is lacustrine, within 0.75 km of r	ivermouth	10	
4)	Fish staging and/or migration habitat present, but not as above		5	
	-	ration Habitat (maximum score 25 points)		0
	Score for Staging and Migi	auon Habitat (maximum score 25 points)	'	U
		33		

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4.3 ECOSYSTEM AGE

(Fractional Area = area of wetland/total wetland area)

	Fractional Area			Scoring
Bog	0.00	X	25 =	0.0
Fen, treed to open on deep soils				
floating mats or marl		X	20 =	0.0
Fen, on limestone rock		X	5 =	0.0
Swamp	0.96	X	3 =	2.9
Marsh	0.03	X	0 =	0.0
		Sub Total:		2.9

Ecosystem Age Score (maximum 25 points)

2.9

4.4 GREAT LAKES COASTAL WETLANDS

Score for coastal (see text for definition) wetlands only

Choose one only



Great Lakes Coastal Wetlands Score (maximum 75 points)

0

The wetland is not within the Coastal zone for either the Great Lakes or associated major rivers and as such will not be scored within this section.

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5.0 EXTRA INFORMATION			
5.1 PURPLE LOOSESTRIFE			
x Absent/Not seen			
			
Present	(a)	One location in wetland Two to many locations	<u>—</u>
		Abundance code	
	(b)	(1 < 20 stems)	
	(0)	(2 20-99 stems	
		(3 100-999 stems	
		(4 > 1000 stems)	
		`	
5.2 SEASONALLY FLOODED AREAS			
Check one or more			
Ephemeral		(less than 2 weeks)	
Temporal		(2 weeks to 1 month)	X
Seasonal		(1 to 3 months)	X
Semi-permanent		(>3 months)	X
No seasonal flooding		,	
5.3 SPECIES OF SPECIAL SIGNIFICANCE			
5.3.1 Osprey			
Present and nesting			
Known to have nested in last 5 yr			
Feeding area for osprey			
Not as above		X	
5.3.2 Common Loon			
N. d. d. d. d.			
Nesting in wetland			
Feeding at edge of wetland Observed or heard on lake or			
river adjoining the wetland			
Not as above			
Not as above		<u> </u>	
	35		

Southern Ontario Wetland Evaluation, Data and Scoring I	Record March 1993
Wetlands Manual	
INVESTIGATORS	AFFILIATION
INVESTIGATORS	AFFILIATION
Jennifer Noel	LGL Limited
Jenniner 140er	EGE Ellilited
DATES WETLAND VISITED	
February 29th to March 1, 22, May 15, 16, Jun	e 26, July 12, 18, 19, August 8, 9, 10, 2012
DATE THIS EVALUATION COMPLETED:	August 28 2012
	3
ESTIMATED TIME DEVOTED TO COMPLETING THE	E FIELD SURVEY IN "PERSON HOURS"
60	
WEATHER CONDITIONS	
WEATHER CONDITIONS	
i) at time of field work overcast sk	the same for mile min hold and hat
/	cies, sunny, fog with rain, cold and hot
(Continue in the space below if necessary)	
ii) summer conditions in general	
OTHER POTENTIALLY USEFUL INFORMATION:	
Early dates were used to get a sense of wetland feat	tureswithin property limits and where additional
work would b	
Victoria Kennedy and Lynette Renzetti provided	•
Wildlife and amphibian surveys information was so	
Limited: Allison Featherstone, Victoria Kennedy,	· · ·
as information provide	·
as information provide	ed by Dave Martin.
CHECKLIST OF PLANT AND ANIMAL SPECIES RECORI	DED IN THE WETLAND:
Attach a list of all flora and fauna observed in the wetland.	
*Indicate if voucher specimens or photos have been obtained, v	where located, etc.
•	,
36	

### Total for Productivity ### 1.2.1 Number of Wetland Types	Southern Ontario Wetland Evaluation Wetlands Manual	March 1993
1.1 PRODUCTIVITY		TON SCORING RECORD
1.1 PRODUCTIVITY 1.1.1 Growing Degree-Days/Soils 9.1 1.1.2 Wetland Type 8.2 1.1.3 Site Type 2.0 Total for Productivity 1.2 BIODIVERSITY 1.2.1 Number of Wetland Types 20.0 1.2.2 Vegetation Communities (maximum 45) 22.0 1.2.3 Diversity of Surrounding Habitat (maximum 7) 7.0 1.2.4 Proximinty to Other Wetlands 5.0 1.2.5 Interspersion 74.0 1.2.6 Open Water Type 14.0 Total for Biodiversity Sub Total for Biodiversity 50 SIZE (Biological Component)	ETLAND NAME AND/OR NUMBER	Black Wetland Complex
1.1.1 Growing Degree-Days/Soils 9.1 1.1.2 Wetland Type 8.2 1.1.3 Site Type Total for Productivity 19 1.2 BIODIVERSITY 20.0 1.2.1 Number of Wetland Types 20.0 1.2.2 Vegetation Communities (maxixmum 45) 22.0 1.2.3 Diversity of Surrounding Habitat (maximum 7) 7.0 1.2.4 Proximinty to Other Wetlands 5.0 1.2.5 Interspersion 74.0 1.2.6 Open Water Type 14.0 1.3 SIZE (Biological Component) 142 1.3 SIZE (Biological Component) 50 Sub Total for Biodiversity 142 1.3 SIZE (Biological Component) 142 Sub Total: 211	1.0 BIOLOGICA	AL COMPONENT
1.1.2 Wetland Type 1.1.3 Site Type Total for Productivity 19 1.2 BIODIVERSITY 1.2.1 Number of Wetland Types 1.2.2 Vegetation Communities (maximum 45) 1.2.3 Diversity of Surrounding Habitat (maximum 7) 1.2.4 Proximinty to Other Wetlands 1.2.5 Interspersion 1.2.6 Open Water Type Total for Biodiversity Sub Total for Biodiversity 142 SIZE (Biological Component) Total for Biodiversity 142 Sub Total: Sub Total: Sub Total:	1.1 <u>PRODUCTIVITY</u>	
1.2.1 Number of Wetland Types 1.2.2 Vegetation Communities (maxixmum 45) 1.2.3 Diversity of Surrounding Habitat (maximum 7) 1.2.4 Proximinty to Other Wetlands 1.2.5 Interspersion 1.2.6 Open Water Type Sub Total for Biodiversity Sub Total for Biodiversity 142 1.3 SIZE (Biological Component) Total for Biodiversity 50 Sub Total: 211	1.1.2 Wetland Type	8.2
1.2.1 Number of Wetland Types 1.2.2 Vegetation Communities (maxixmum 45) 1.2.3 Diversity of Surrounding Habitat (maximum 7) 1.2.4 Proximinty to Other Wetlands 1.2.5 Interspersion 1.2.6 Open Water Type Total for Biodiversity Sub Total for Biodiversity 1.3 SIZE (Biological Component) Total for Biodiversity Sub Total: 20.0 22.0 7.0 7.0 14.0 Total for Biodiversity 142		Total for Productivity 19
1.2.2 Vegetation Communities (maxixmum 45) 1.2.3 Diversity of Surrounding Habitat (maximum 7) 1.2.4 Proximinty to Other Wetlands 1.2.5 Interspersion 1.2.6 Open Water Type Total for Biodiversity Sub Total for Biodiversity 1.3 SIZE (Biological Component) Sub Total: Sub Total: Sub Total:	1.2 <u>BIODIVERSITY</u>	
Sub Total for Biodiversity 1.3 SIZE (Biological Component) 50 Sub Total: 211	 1.2.2 Vegetation Communities (maximum 45) 1.2.3 Diversity of Surrounding Habitat (maximum 7) 1.2.4 Proximinty to Other Wetlands 1.2.5 Interspersion 	22.0 7.0 5.0 74.0
	TOTAL FOR BIOLOGICAL COMPONENT (not to	

Southern Ontario Welland Evaluation		March 1993
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	2.0 SOCIAL COMPONENT	
2.1 ECONOMICALLY VALUABLE	PRODUCTS	
 2.1.1 Wood Products 2.1.2 Wild Rice 2.1.3 Commercial Fish 2.1.4 Bullfrogs 2.1.5 Snapping Turtles 2.1.6 Furbearers 		3 0 12 0 1 6
	Total for Economically Valuable Produ	icts 22
2.2 RECREATIONAL ACTIVIT		16
2.3 LANDSCAPE AESTHETIC2.3.1 Distinctness2.3.2 Absence of Human Di		3 4
	Total for Landscape Aesthetics	7
 2.4 EDUCATION AND PUBLI 2.4.1 Educational Uses 2.4.2 Facilities and Program 2.4.3 Research and Studies 		0 0 0
	Total for Education and Public Awaren	ess 0
2.5 PROXIMITY TO AREAS O	DF HUMAN SETTLEMENT	10
2.6 OWNERSH1P2.7 SIZE (Social Component)	Subtotal for Social Component 48.0	10
2.8 ABORIGINAL AND CULT	TURAL VALUES	0
TOTAL FO	OR SOCIAL COMPONENT (not to exceed 250)	Sub Total: 69 69

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3.0 HYDROLOGICAL COMPONENT	
3.1 <u>FLOOD ATTENUATION</u>	100
3.2 <u>WATER QUALITY IMPROVEMENT</u>	
3.2.1 Short Term Improvement3.2.2 Long Term Improvement3.2.3 Groundwater Discharge (maximum 30)	45.4 3.0 18.0
Total for Water Quality Imp	provement 66
3.3 <u>CARBON SINK</u>	3
3.4 SHORELINE EROSION CONTROL	0
3.5 <u>GROUNDWATER RECHARGE</u>	
3.5.1 Site Type 3.5.2 Soils	50.00 7.0
Total for Groundwater Recl	
TOTAL FOR HYDROLOGICAL COMPONENT (not to	Sub Total: 226 exceed 250) 226

Southern Ontario Wetland Evaluation, Score Summary	December 2002
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4.0 SPECIAL FEATURES	
4.1 <u>RARITY</u>	
4.1.1 Wetlands	
4.1.1.1 Rarity within the Landscape	20.0
4.1.1.2 Rarirty of Wetland Type (maximum 80)	80.0
Total for Wetland Rarity	100
4.1.2 Species	
4.1.2.1 Endangered or Threatened Species Breeding	0.0
4.1.2.2 Traditional Use by Endangered or Threatened Species	0.0
4.1.2.3 Provincially Significant Animals	50.0
4.1.2.4 Provincially Significant Plants	0.0
4.1.2.5 Regionally Significant Species4.1.2.6 Locally Significant Species	0.0
4.1.2.0 Locally Significant Species	30.0
Total for Species Rarity	106
4.2 <u>SIGNIFICANT FEATURES OR HABITAT</u>	
4.2.1 Colonial Waterbirds	0.0
4.2.2 Winter Cover for Wildlife	0.0
4.2.3 Waterfowl Staging and Moulting	0.0
4.2.4 Waterfowl Breeding	0.0
4.2.5 Migratory Passerine, Shorebird or Raptor Stopover4.2.6 Fish Habitat	0.0
4.2.0 FISH Habitat	1.1
Total for Significant Featu	res and Habitat 1
4.3 ECOSYSTEM AGE	3
4.4 GREAT LAKES COASTAL WETLANDS	0
THE ORDER LARLS COASTAL WEIGHTED	Sub Total: 210
TOTAL FOR SPECIAL FEATURES (maxin	mum 250) 210

	n Ontario Wetland Evaluation, Score Summary		March 1993
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	SUMMARY OF EV	VALUATION RESULT	
Wetland	Black V	Vetland Complex	
TOTAL FO	R 1.0 BIOLOGICAL COMPONENT		211
TOTAL FO	R 2.0 SOCIAL COMPONENT		69
TOTAL FO	R 3.0 HYDROLOGICAL COMPONENT		226
TOTAL FO	R 4.0 SPECIAL FEATURES COMPONENT		210
		WETLAND TOTAL	717
INVESTIG	ATORS		
IIIVLSTIO.	Jennifer Noel		
	0		
	0		
	0		
	0		
AFFILIATI			
	LGL Limited		
	0		
	0		
	0		
	0		
<u>DATE</u>	August 28 2012		

Black Property Wetland Complex

Interspersion \mathcal{P} (F) @ @ 6 Line A = 117 cm 11.7 m = 0.97cm 27/08/2012

