

TECHNICAL MEMORANDUM

DATE April 5, 2023 **Project No.** 19130670

TO Nick Stow, Senior Planner City

of Ottawa

CC Matthew Hayley, Craig Bellinger

FROM Fergus Nicoll, Gwendolyn Weeks

EMAIL Fergus.Nicoll@WSP.com

2023 SUBMISSION OF ONTARIO WETLAND EVALUATION, "WESTERN STITTSVILLE II" WETLAND, TOMLINSON STITTSVILLE PROPERTIES, OTTAWA, ONTARIO

Please find attached the evaluation for a single wetland (Western Stittsville II), located on lands owned by R. W. Tomlinson Limited, Lot 15, Concession 11, Goulbourn Township, Ottawa, Ontario. This wetland has been evaluated by provincially certified wetland evaluators according to the most recent Ontario Wetland Evaluation System for Southern Ontario manual (MNRF 2022). The results of this evaluation value the Western Stittsville II wetland with a total score of 403, and a special features score of 102, which means this wetland is not Provincially Significant in Ontario.

Should you have any questions, or require further information, do not hesitate to reach out to the undersigned.

Sincerely,

WSP Canada Inc.

Fergus Nicoll, Dip.T.

Lergus Nicoll

Wetland Evaluator

Gwendolyn Weeks, H.B.Sc.Env.

Wetland Evaluator

FN/GW/ca

https://golderassociates.sharepoint.com/sites/115663/project files/6 deliverables/owes/western wetland owes package/coverletter western wetland 2023_gw.docx

WETLAND EVALUATION DATA AND SCORING RECORD

Wetland Name: Western Stitsville II
Geographic Location (municipality, lot/concession, etc): City of Ottawa, Twp. Golbourn, Lot 15, Con 11
Map / Photo Locational Reference (e.g., latitude/longitude, NTS map, UTM): 18 T 42 32 93.31, 500 9 2 28 - 51
Eco-District: 6 F - 1
Wetland Size (hectares): 10.7

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Vegetation Form	FA
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1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

- 1.1.1 Growing Degree-Days/Soils (max: 30 pts)
 Refer to page 36 of manual for further explanation.
- 1. Determine the correct GDD value for your wetland (use Figure 5).
- 2. Circle the appropriate GDD value from the evaluation table below.
- 3. Determine the Fractional Area (FA) of the wetland for each soil type.
- 4. Multiply the fractional area of each soil type by the applicable score-factor in the evaluation table.
- 5. Sum the scores for each soil type to obtain the final, score (maximum score is 30 points).

		Clay- Loam	Silt- Marl	Lime- stone	Sand	Humic- Mesic	Fibric	Granite
s _z	<2800	15	13	11	9	8	7	5
ing	2800-3200	18	15	13	11	9	8	7
Growing egree-Days	3200-3600	22	18	(15)	13	11	9	7
שַׁ שַּׁ	3600-4000	26	21	18	15	13	10	8
۵	>4000	30	25	20	18	15	12	8

Soil Type	FA of wetland in soil type		Enter appropriate score-factor from above table		
Clay/Loam		Х		=	
Silt/Marl:		Х		_	
Limestone:	1,0	Х	15	=	15
Sand:		Х		=	
Humic/Mesic:		х		=	
Fibric:		х	+	=	
Granite:		х	5	=	
Total					15

1.1.2 Wetland Type

(Fractional Areas = area of wetland type/total wetland area)

	Fractional Area		Score
Bog		x 3 =	
Fen		x 6 =	
Swamp	0.67	x 8 =	10.1
Marsh	0.33	x 15 =	5.0
Total	1.0	=	15.1

1.1.3 Site Type

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

	Fractional Area			Score
Isolated .	I DESCRIPTION OF THE PARTY OF T	x 1	=	
Palustrine (permanent or intermittent flow)	1.0	x 2	=	2.0
Riverine		× 4	=	
Riverine (at rivermouth)		x 5	=	
Lacustrine (at rivermouth)		x 5	=	
Lacustrine (with barrier beach)		x 3	-	
Lacustrine (exposed to lake)		x 2	=	
Total			-	200

Site Type Score (maximum 5 points) 200

1.2.1 Number of Wetland Types

(Check only one)

 One	=	9 points
Two	=	13
Three	=	20
Four	=	30

1.2.2. Vegetation Communities

Use the data sheet provided in Appendix 4 to record and score vegetation communities (the completed form must be attached to this data record)

Print

Scoring (circle only one option for each of the columns below):

Total	# of	communities			
with	with 1-3 forms				
1	=	1.5 pts			
2	=	2.5			
3	=	3.5			
4	=	4.5			
(5)	=	5			
6	-	5.5			
7	=	6			
8	=	6.5			
9	=	7 .			
10	=	7.5			
11	= :	8			
+ 0.5	for	each			
additional community					
	=	5			

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Total # of communities					
with 6 or more forms					
1 =	3 pts				
2 =	5				
3 =	7				
4 =	9				
5 =	10.5				
6 =	12				
7 =	13.5				
8 =	15				
9 =	16.5				
10 =	18				
11 =	19				
+ 1.0 for each					
additional	additional community				
=	Õ				

Vegetation Communities Score (maximum 45 points) 5

1.2.3 Diversity of Surrounding Habitat

Check all appropriate items. Only habitat within 1.5 km of the wetland boundary and at least 0.5 ha in size are to be scored.

	row crop
	pasture
	abandoned agricultural land
1	deciduous forest
1	coniferous forest
T	mixed forest*
	abandoned pits and quarries
	open lake or deep river
	fence rows with deep cover, or shelterbelts
	terrain appreciably undulating, hilly or with ravines
I	creek flood plain

* "Mixed forest" is defined as either 25% coniferous trees distributed singly or in clumps in deciduous forest, or 25% deciduous trees distributed singly or in clumps in coniferous forest. Note that Forest Resource Inventory (FRI) maps can be misleading since 25% conifer within a unit could be entirely concentrated around a lake.

Score 1 point for each feature checked, up to a maximum of 7 points.

Diversity of Surrounding Habitat Score	
(maximum 7 points)5	

1.2.4 Proximity to Other Wetlands

Check highest appropriate category. (Note: if the wetland is lacustrine, score option #1 at 8 points).

1		Points
	Hydrologically connected by surface water to other wetlands (different dominant wetland type)	
	or to open lake or deep river within 1.5 km	8
. /	Hydrologically connected by surface water to other wetlands (same dominant wetland type)	
V	within 0.5 km	8
	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
	Hydrologically connected by surface water to other wetlands (same dominant wetland type)	
	from 0.5 to 1.5 km away	5
	Within 0.75 km of other wetlands (different dominant wetland type) or open water body,	
	but not hydrologically connected by surface water	5
	Within 1 km of other wetlands, but not hydrologically connected by surface water	2
	No wetland within 1 km	0

and the second s	\sim	
Name and distance (from wetland) of wetlands/waterbodies scored above:	017	
Name and distance (from wetland) of wetlands/waterbodies scored above:	0.7+	
	11.0	

Proximity to other Wetlands Score	
(maximum 8 points)	

1.2.5 Interspersion

Number of Intersections = $\frac{101}{}$

,	Number of	Ро	ints
√	Intersections		
	(Check one on	(y)	
	26 or less	=	3
	27 to 40	=	6
	41 to 60	=	9
	61 to 80	=	12
	81 to 100	=	15
\checkmark	101 to 125	=	18
	126 to 150	=	21
	151 to 175	=	24
	176 to 200	=	27
	>200	=	30

Interspersion Score (maximum 30 points)

1.2.6 Open Water Types

NOTE: this attribute is only to be scored for permanently flooded open water within the wetland (adjacent lakes do not count). Check one option only.

-	Open Water Type	Characteristic	Po	ints
	Туре 1	Open water occupies < 5 % of wetland area	-	8
	Туре 2	Open water occupies 5-25% of wetland (occurring in central area)	-	8
	Type 3	Open water occupies 5-25% (occurring in various-sized ponds,		
		dense patches of vegetation or vegetation in diffuse stands)	=	14
	Type 4	Open water occupies 26-75% of wetland (occurring in a central area)	=	20
7	Type 5	Open water occupies 26-75% of wetlands (small ponds and	_	
		embayments are common)	=	30
	Туре 6	Open water occupies 76%-95% of wetland (occurring in large		
		central area; vegetation is peripheral)	=	8
	Туре 7	Open water occupies 76-95% of wetland (vegetation in		
		patches or diffuse open stands)	=	14
	Type 8	Open water occupies more than 95% of wetland area	=	3
1	No open water		=	0

Open Water Type Score (maximum 30 points)



COMPONENT)

1.3 SIZE (BIOLOGICAL

Total Size of Wetland =
$$10.7$$
 ha

Sum of scores from Biodiversity Subcomponent

 ${\it Circle the appropriate score from the table below.}$

		Total Score for Biodiversity Subcomponent									
		<37	37-47	(48-60)	61-72	73-84	85-96	97-108	109-120	121-132	>132
	<20 ha	1	5	0	8	9	17	25	34	43	50
	20-40	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
(ha)	141-160	11	15	17	19	23	34	46	50	50	50
size	161-180	13	17	19	21	25	37	49	50	50	50
	181-200	15	19	21	23	28	40	50	50	50	50
Wetland	201-400	17	21	23	25	31	43	50	50	50	50
3	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

Size Score (Biological Component) (maximum 50 points) ______

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2.1 ECONOMICALLY VALUABLE

PRODUCTS

2.1.1 Wood Products

Check the option that best reflects the total area (ha) of forested wetland (i.e., areas where the dominant vegetation form is h or c). Note that this is the area of all the forested vegetation communities, not total wetland size. Do not include areas where harvest is not permitted. Check only one option.

Area of wetland used for scoring 2.1.1: N/A

_			
	< 5 ha	= ,	0 pts
	5 - 25 ha	· =	3
	26 – 50 ha	/=	6
	51 – 100 ha /	=	9
	101 – 200 ha	=	12
	> 200 ha	=	18

Source of information:

Harvest not	vernitted
, ,	7.

Wood Products Score (maximum 18 points)

2.1.2 Wild Rice

Check only one.

	Present (min. size 0.5 ha)	=	6 pts
2	Absent	_	0
	Harvest not permitted	=	0.

Source of information:

Wild Rice Score (maximum 6 points)

2.1.3 Commercial Baitfish

Check only one.

Present	= 12 pts
Absent	= 0
Fishing not permitted	= 0

Source of information:	1)	ž I

Commercial Fish Score (maximum 12 points)	0	_

2.1.4 Furbearers

Only species recognized as furbearers under the Fish & Wildlife Conservation Act may be scored here. Score 3 points for each furbearer species listed, up to a maximum of 12 points.

Score 0 points if trapping is prohibited.

Name of furbearer	Source of information	
	Prohibited	

Furbearer Score (maximum 12 points)

2.2 RECREATIONAL ACTIVITIES

Sources of information and reasons for scoring a wetland under high or moderate use below, must be included below.

Circle one score for each of the activities listed. Score is cumulative – add score for hunting, nature enjoyment and fishing together for final score.

	Type of Wetland-Associated Use				
		Hunting	Nature Enjoyment/ Ecosystem Study	Fishing	
	High .	40 points	40 points	40 points	
Intensity of Use	Moderate	20	20	20	
-	Low	8	8	8	
	Not Possible/ No evidence	0 _	(6)	0	

Sources of information (include evidence/criteria forming basis for score and any relevant reference used to obtain that information):

Hunting:	Landowner - No Public access
Nature:	
Fishing:	
-	

Recreational A	
(maximum 80 pc	ints) 🚫

2.3 LANDSCAPE AESTHETICS

2.3.1 Distinctness

Check only one.

Clearly Distinct	= 3 pts
Indistinct	= 0

Landscape Distinctness Score (maximum 3 points)

2.3.2 Absence of Human Disturbance

Check only one.

1	Human disturbances absent or nearly so	=	7 pts
	One or several localized disturbances	=	.4
	/Moderate disturbance; localized water pollution	=	2
1	Wetland intact but impairment of ecosystem quality intense in some areas	=	1
	Extreme ecological degradation, or water pollution severe and widespread	=	0

Details regarding type, extent and location of disturbance scored:

- effects from adjustent	1 yours /	(POW. NU	1. Fill et
<u> </u>		/	1

Source of information:

		the state of the s	
Field obe	FN		

2.4 EDUCATION AND PUBLIC **AWARENESS**

2.4.1 Educational Uses

Check highest appropriate category.

	Frequent	=	20 pts
	Infrequent	=	12
/	No visits	_	0

Details regarding the type and frequency of education uses	scored above:		
ource of information:			
	Educational Uses Score (maximum 20)	point	s) Z
2.4.2 Facilities and Programs			
Check all appropriate options, score highest category checked.			
Staffed interpretation centre		=	8 pts
No interpretation centre or staff, but a system of s		=:	4
Facilities such as maintained paths (e.g., woodchip observation towers, but no brochures or other interest of the control of t		_	2
No facilities or programs	sipietation	_	0
\	NO quess.		
Source of information:			

2.4.3 Research and Studies

Check all that apply; score highest category checked.

	Long term research has been done	=	12 pts
	Research papers published in refereed scientific journal or as a thesis	=	10
	One or more (non-research) reports have been written on some aspect		
	of the wetland's flora, fauna, hydrology, etc.	=	5
0	No research or reports	=	0

List of res	norte nu	blications,	research	enidies	etc	scored	ahove
List of rep	ports, pu	ioncauous,	research	studies	eic.	SCOLEU	above

Els does Not qualify

Research and Studies	Score
(maximum 12 points)	Δ

2.5 PROXIMITY TO AREAS

OF HUMAN SETTLEMENT

Name of Settlement:	Ottawa	Subdivision	
Distance of wetland from settlement:	3.7 Km		
Population of settlement: million	0 +	(Source: OHawa.ca)

Circle only the highest score applicable

		population >10,000	population 2,500-10,000	population <2,500 or cottage community
	within or adjoining settlement	40 points	26 points	16 points
wetland ment	0.5 to 10 km from settlement	(26)	16	10
Distance of wetland to settlement	10 to 60 km from settlement	12	8	4
Ö	>60 km from nearest settlement	5	2	0

Proximity to Human Settlement Score (maximum 40 points) 26

2.6 OWNERSHIP

FA of wetland held by or held under a legal contract by a conservation body	ľ.		
(as defined by the Conservation Land Act) for wetland protection		x 10	=
FA of wetland occurring in provincially or nationally protected areas (e.g., parks			
and conservation reserves)		x 10	=
FA of wetland area in Crown/public ownership, not as above		x 8 =	=
FA of wetland area in private ownership, not as above	1.0	x 4 =	4

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Source	Λt	into	vrmati	an.
Source	O.	TITIE	/I IIIG 11'	UII.

Ownership Score (maximum 10 points)

2.7 SIZE (SOCIAL COMPONENT)

Total Size of Wetland = 10.7 ha Sum of scores from Subcomponents 2.1, 2.2, and 2.5 = 0.0, 2b = 2b. Circle the appropriate score from the table below.

Total for Size Dependent Social Features										
	(<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
2-4	1	2	4	8	12	13	14	14	15	16
5-8	2	2	5	9	13	14	15	15	16	16
(9-12)	(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) 3

2.8 ABORIGINAL VALUES AND CULTURAL HERITAGE

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

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

2.8.1 Aboriginal Values

Significant	= 30 pts
Not Significant	= 0
Unknown	= (0)

Additional Comments/Notes:	UNKNOWN - hegily disturbed (private
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2.8.2 Cultural Heritage

Significant	= 30 pts
Not Significant	= 0
Unknown	= (0)

Additional Comments/Notes:	Private	- No	public access.
			V
		8	
			
			3

Aboriginal Values/Cultural Heritage Score (maximum 30 points)

3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

Check one of the following options.

If wetland is a coastal wetland, → score 0 points for this section.

If wetland is entirely isolated in site type, → score 100 points automatically.

Wetland not as above – proceed through 'steps' A through F below.

- (A) Total wetland area = 10.7 ha
- (B) Size of wetland's catchment = 32.0 ha
- (C) Size of other detention areas in catchment = _____ ha
- (D) Total area of upstream detention areas = $\{A + C\} = 10.7$ ha
- (E) Upstream Detention Factor = $\{(A/D) \times 2\} = 1.0$ (maximum 1.0)
- (F) Attenuation Factor = $\{(A/B) \times 10\} = 1.0$ (maximum 1.0) Flood Attenuation Final Score = $\{(E + F)/2\} \times 100 = 100$

Flood Attenuation Score (maximum 100 points) 100

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3.2 WATER QUALITY

IMPROVEMENT

3.2.1 Short Term Water Quality Improvement

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.

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

FA of isolated wetland	=		x 0.5 =	
FA of riverine wetland	=		x 1.0 =	
FA of palustrine wetland with no inflow	=	1.0	x 0.7 =	0.7
FA of palustrine wetland with inflows	=		x 1.0 =	
FA of lacustrine on lake shoreline	=		x 0.2 =	
FA of lacustrine at lake inflow or outflow	=		x 1.0 =	

Sum (WIF cannot exceed 1.0) 0.7

Step 3: Determination of Catchment Land Use Factor (LUF)

(Choose the first category that fits upstream land use in the catchment.)

	Over 50% agricultural and/or urban	=	1.0
	Between 30 and 50% agricultural and/or urban	=	0.8
✓	Over 50% forested or other natural vegetation	=	(0.6)

LUF (maximum 1.0) 0.6

Step 4: Determination of Pollutant Uptake Factor (PUF)

Calculation of PUF 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 dominant live vegetation type.

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

FA of wetland with live trees, shrubs, herbs or mosses	112				10 [
(c, h, ts, ls, gc, m)	0.67=	ĸ	0.75	=	0.5
FA of wetland with emergent, submergent or floating ve	getation				
(re, be, ne, su, f, ff)	0.33= :	K	1.0	=	0.33
FA of wetland with little or no vegetation (u)					
	= ;	X	0.5	=	1 2

Sum (PUF cannot exceed 1.0) 0.83

ep 5: Calculation of final score	
Wetland on defined 5 major lakes or 5 major rivers. All other wetlands – calculate as follows Initial score Watershed Improvement Factor (WIF) Land Use Factor (LUF) Pollutant Uptake Factor (PUF)	O.760 O.60 O.83
Final score: 60 x WIF x LUF x PUF =	20.92
	Short Term Water Quality Improvement Sc (maximum 60 points) 2-
2.2 Long Term Nutrient Trap	
2.2 Long Term Nutrient Trap	
2.2 Long Term Nutrient Trap	
	rs = 0 points
ep 1: Wetland on defined 5 major lakes or 5 major rive	
Wetland on defined 5 major lakes or 5 major rive All other wetlands (Proceed to Step 2)	
Wetland on defined 5 major lakes or 5 major rive All other wetlands (Proceed to Step 2) Pp 2: Choose only one of the following settings that be	est describes the wetland being evaluated = 10 pts
Wetland on defined 5 major lakes or 5 major rive All other wetlands (Proceed to Step 2) Pap 2: Choose only one of the following settings that be Wetland located in a river mouth	est describes the wetland being evaluated = 10 pts
Wetland on defined 5 major lakes or 5 major rive All other wetlands (Proceed to Step 2) Pep 2: Choose only one of the following settings that be wetland located in a river mouth Wetland is a bog, fen, or swamp with more the	est describes the wetland being evaluated = 10 pts han 50% of the wetland being = 10
Wetland on defined 5 major lakes or 5 major rive All other wetlands (Proceed to Step 2) Pp 2: Choose only one of the following settings that be Wetland located in a river mouth Wetland is a bog, fen, or swamp with more the covered with organic soil	est describes the wetland being evaluated = 10 pts han 50% of the wetland being = 10
Wetland on defined 5 major lakes or 5 major rive All other wetlands (Proceed to Step 2) Pop 2: Choose only one of the following settings that be wetland located in a river mouth Wetland is a bog, fen, or swamp with more the covered with organic soil Wetland is a bog, fen, or swamp with less that	est describes the wetland being evaluated = 10 pts han 50% of the wetland being = 10 an 50% of the wetland being = 3

Long Term Nutrient	Trap Score
(maximum 10 points)	Ø

3.2.3 Groundwater Discharge

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). Note: for wetland type, wetland type scored does not have to the dominant type in the wetland.

			Potential for Discharge	
		None to Little	Some	High
	Wetland type	Bog = 0	Swamp/Marsh € 2	Fen = 5
•	Topography	Flat/rolling (0)	Hilly = 2	Steep = 5
Characteristics	Wetland area: Upslope catchment area	Large (>50%) = 0	Moderate (5-50%) €2	Small (<5%) = 5
,	Lagg development	None found = 0	Minor = 2	Extensive = 5
	Seeps	None = 0	≤ 3 seeps = 2	> 3 seeps = 5
-	Surface marl deposits	None = 0	≤ 3 sites = 2	> 3 sites = 5
,	Iron precipitates	None = 0	≤ 3 sites = 2	> 3 sites = 5
,	Located within 1 km of a major aquifer	N/A = 0	N/A:= 0	Yes = 10 No =0

Additional Comments/Notes: Area = Upslope (atch	nent = 10.72: 32.0 (+33%)
	Groundwater Discharge Score

Check only one of the following:

Bog, fen or swamp with more than 50% coverage by organic soil	=	5 pts
Bog, fen or swamp with between 10 to 50% coverage by organic soil	=	2
Marsh with more than 50% coverage by organic soil	=	3
Wetlands not in one of the above categories	/=	0)

Source of information:

Carbon Sink Score (maximum 5 points)



3.4 SHORELINE EROSION

CONTROL

From the wetland vegetation map determine the dominant vegetatino type within the erosion zone for lacustrine and riverine site type areas only. Score according to the factors listed below.

Step 1:

0	Wetland entirely isolated or palustrine	-	0 pts
:0>-	Any part of the wetland is riverine or lacustrine	=	Go to step 2

Step 2: Choose the one characteristic that best describes the shoreline vegetation (see page 109 for description of "shoreline".)

Trees and shrubs	=	15 pts
Emergent vegetation	=	8
Submergent vegetation	=	6
Other shoreline vegetation	=	3
No vegetation	=	0

Shoreline Erosion Control Score (maximum 15 points)

3.5 GROUNDWATER RECHARGE

3.5.1 Site Type

Wetland > 50% lacustrine (by area) or located on one of the	ne five major rivers	= 0 pt	s.
Wetland not as above. Calculate final score as follows:			
FA of isolated or palustrine wetland	=	x 50 =	1.0
FA of riverine wetland	. =	x 20 =	
FA of lacustrine wetland (not dominant site type)	=	x 0 =	

3.5.2 Soil Recharge Potential

Circle only one choice that **best** describes the soils in **the** area surrounding the wetland being evaluated (the soils within the wetland are not scored here).

		Group A, B, C (sands, gravels, loams)	Group D (clays, substrates in high water tables, shallow substrates over impervious materials such as bedrock)
L Se	Lacustrine or major river	0	0
nant d Typ	Isolated	10	5
omi	Palustrine	7	(4)
Met Wetl	Riverine (not on a major river)	5	2

Groundwater Recharge/Wetland Soil Recharge
Potential Score (maximum 10 points)

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY

4.1.1 Wetland Types

Ecodistrict	Rarity within the Landscape		Rarity o	of Wetland Type (4	l.1,1.2)
	(4.1.1.1)	Marsh	Swamp	Fen	Bog
6E-1	60	40	0	80	80
6E -2	60	40	0	80	80
6E-4	60	40	0	80	80
6E-5	20	40	0	80	80
6E-6,	40	20	0	80	80
6E-7	60	10	0	80	80
6E-8	20	20	0	80	80
6E-9	0	20	0	80	80
6E-10	20	0	20	80	80
6E-11	0	(30)	(0)	80	80
6E-12	0	30	ő	60	80
6E-13	60	10	0	80	80
6E-14	40	20	0	40	80
6E-15	40	0	0	80	80
6E-16	60	20	0	80	60
6E-17	40	10	0	30	80
7E-1	60	0	60	80	80
7E-2	60	0	0	80	80
7E-3	60	00	0	80	80
7E-4	80	0	0	80	80
7E-5	60	20	0	80	80
7E-6	80	30	0	80	80

4.1.1.1 Rarity within the Landscape

Choose appropriate score from 2nd column above.

Score (maximum 80 points)

4.1.1.2 Rarity of Wetland Type

Score is cumulative, based on presence/absence. Circle all appropriate scores from above table and sum.

Score	(maximum 80 points)	30	

4.1.2 Species

4.1.2.1 Provincially Significant Animal Species - NHIC tracked.

Common Name	Scientific Name	Activity	Dates Observed	Info Source
Western Charas From	Pseudacis triseriala	CALLINY	26 April 2022	field surveys -
3				,
	<i></i> .	,4		
	A STATE OF THE STA			
	_			

Additional Notes/Comments:	any a	Fewindividuale	12/1/100	DOVINA
	1 1100	Surveys		

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

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

Provincially Sign	nificant Animal Species	
(no maximum)	nificant Animal Species	

4.1.2.2 Provincially Significant Plant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source
		THE REAL PROPERTY.	gardis .	
	/			
	/	1	We	
		/ /		

Additional	Notes/Con	·monto.
Auditional	INDICA/COIL	muchts.

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

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

Provincially Significant Plant Species	
(no maximum)	

4.1.2.3 Regionally Significant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source
				ā
2	None			
		X		

One species= 20 pts	4 species =	45 pts	7 species	-	58 pts
2 species = 30	5 species =	50	8 species	=	61
3 species = 40	6 species =	55	9 species	=	64
	*		10 species	=	67

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

Regionally Significant Species Score
(no maximum score)

4.1.2.4 Locally Significant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source
	None			
	/ 4 00			

One species= 10 pts	4 species = 31 pt	7 species	=	43 pts
2 species = 17	5 species = 38	8 species	=	45
3 species = 24	6 species = 41	9 species	-	47
<u> </u>		10 species	=	49

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

Locally Significant Species Score
(no maximum score)

4.2 SIGNIFICANT FEATURES

AND HABITATS

4.2.1 Colonial Waterbirds

Record all available information. Score the highest applicable category. Include additional information as possible (e.g., nest locations, etc).

Activity	Species	Info Sourge	Points
Currently nesting	Q		= 50
Known to have nested within the past 5 years	N)		= 25
Active feeding area (great blue heron excluded)	X	·	= 15
None known		,	= 0

Kesy Its	of Extensive	Surveys - FN
****		/*
	•	
	KP3n 1+s	Kesnits of Extensive

Colonial Waterbird Nesting Score (maximum 50 points)

4.2.2 Winter Cover for Wildlife

Score highest appropriate category. Include rationale/sources of information.

Provincially significant		=	100 pts
Significant in Ecoregion	•	=	50
Significant in Ecodistrict		=	25
Locally significant			10
Little or poor winter cover		=	0 -

Species/habitat/vegetation community scored (e.g., winter deer cover in hemlock swamp, S3 and S4b):

	- god dag	Swivey 5	completed.	No. 1 AV
Source of information:	-deer sari) Surveys	· -sec El	SINER
		Cover for Wildlife Sc		

Winter Cover for Wildlife Score
(maximum 100 points)

4.2.3 Waterfowl Staging and/or Moulting Areas

Check highest level of significance for both staging and moulting; add scores for staging and for moulting together for final score. However, maximum score for evaluation under this section is 150 points.

		Staging	Me	oulting
Nationally/internationally significant	-	150 pts	-	150 pts
Provincially significant	=	100	=	100
Significant in the Ecoregion	=	50	-	50
Significant in Ecodistrict	=	25	=	25
Known to occur	-	10	=	10
Not possible/Unknown	=	0	-	0

Kilowii to occui		10	
Not possible/Unknown	= 0	= 0	
Species/habitat/vegetation comm	unity scored (e.g., ap	oprox 20 mallards in W	73):
		\otimes	
Source of information:	Surv	lys from	NER/EIS-FN
		/	
			aging/Moulting Score
		(maximum 150	points)
4.2.4 Waterfowl Breeding			
Check highest level of significance	ee.		
Nationally/internationally	significant = 150 pts	S	
Provincially significant	= 100		
Significant in the Ecoregio	n = 50		
Significant in Ecodistrict	= 25		
Habitat Suitable	= 10		
Habitat not suitable	= 0		
Species/habitat/vegetation comm	unity scored (e.g., m	nallard in W3):	None observed
Source of information:	Sus	veys from	NER/EIS-FN
			reeding Score () points)
4.2.5 Migratory Passerine	, Shorebird or R	aptor Stopover A	rea
Check highest level of significant	ce.		
Nationally / internationally	/ significant = 150 pt	s	
Provincially significant	= 100		
			I .

Nationally / internationally sig	gnificant = 150 pts
Provincially significant	= 100
Significant in Ecoregion	= 50
Significant in Ecodistrict	= 25
Known to occur	= 10
Not possible / Unknown	= 0

Species	/habitat/v	egetation	community	score

Source of information:

Surveys Passerine, Shorebird or Raptor Stopover Score

(maximum 100 points)

4.2.6 Fish Habitat

4.2.6.1 Spawning and Nursery Habitat

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 +	1.0	
Step 1: Fish habitat is not pres	ent within the wetland	Go to Step 7, Score 0 points
Fish habitat is present	within the wetland	Go to Step 2
Step 2: Choose only one optio	n	
Significance of the spar wetland is known	wning and nursery habitat withi	n the Go to Step 3
Significance of the spar the wetland is not know	wning and nursery habitat withir vn	n Go through Steps 4, 5 and 6
Step 3: Select the highest appr	ropriate category below, attach	documentation:
Significant in Ecoregion	1	Go to Step 7, Score 100 points
Significant in Ecodistric	t	Go to Step 7, Score 50 points
Locally Significant Habi	tat (5.0+ ha)	Go to Step 7, Score 25 points
Locally Significant Habi	tat (<5.0 ha)	Go to Step 7, Score 15 points
Source of information:	Survey 5	from NER/EIS -FN
Step 4: Low Marsh = the 'perma	anent' marsh area, from the exis	sting water line out to the outer boundary of the wetland.
Low marsh not present		Go to Step 5
Low marsh present		Continue through Step 4, scoring as noted below

Scoring of Low Marsh:

- 1. Check the appropriate **Vegetation Group** (see Appendix 7) for each Low Marsh community. (Based on the one most clearly dominant plant species of the dominant form in each Low Marsh vegetation community.)
- 2. Sum the areas (ha) of the vegetation communities assigned to each Vegetation Group.
- 3. Use these areas to assign an Area Factor (from Table 7) for each checked Vegetation Group.
- 4. Multiply the Area Factor by the Multiplication Factor for each row to calculate Score.
- 5. Sum all numbers in Score column to get Total Score for Low Marsh.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
1	Tallgrass			=	6	
2	Shortgrass-Sedge	4			11	
3	Cattail-Bulrush-Burreed	1			5	
4	Arrowhead-Pickerelweed		1		5	
5	Duckweed				2	
6	Smartweed-Waterwillow				6	
7	Waterlily-Lotus				11	
8	Waterweed-Watercress				9	
9	Ribbongrass				10	
10	Coontail-Naiad-Watermilfoil				13	
11	Narrowleaf Pondweed				5	
12 .	Broadleaf Pondweed				8	

Total Score for Low Marsh (maximum 75 points)

Continue to Step 5

step s:	righ Marsh = the seasonal marsh a	ea, from the water line to the inland boundary of marsh wetland type. This is
	essentially what is commonly referre	to as a wet meadow, in that there is insufficient standing water to provide
11	fisheries habitat except during flood	or high water conditions.
	High marsh not present	Go to Step 6
	High marsh present	Continue through Step 5, scoring as noted below

Scoring of High Marsh:

- 1. Check the appropriate Vegetation Group (see Appendix 7) for each High Marsh community. (Based on the one most clearly dominant plant species of the dominant form in each High Marsh vegetation community.)
- 2. Sum the areas (ha) of the vegetation communities assigned to each Vegetation Group.
- 3. Use these areas to assign an Area Factor (from Table 7) for each checked Vegetation Group.
- 4. Multiply the Area Factor by the Multiplication Factor for each row to calculate Score.
- 5. Sum all numbers in Score column to get Total Score for High Marsh.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
1	Tallgrass				6	
2	Shortgrass-Sedge				11	
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				5	

Total Score for High Marsh (maximum 25 points)

Continue to Step 6

1	Swamp containing fish habitat not present
	Swamp containing fish habitat present

Go to Step 7

Continue through Step 6, scoring as follows

Scoring of Swamp:

- 1. Determine the total area (ha) of seasonally flooded swamp communities within the wetland containing fish habitat and record below.
- 2. Determine the total area (ha) of permanently flooded swamp communities within the wetland containing fish habitat and record below.
- 3. Use these areas to assign an Area Factor (from Table 7).
- 4. Multiply the Area Factor by the Multiplication Factor for each row to calculate Score.
- 5. Sum all numbers in Score column to get Total Score for Swamp.

Swamp Containing Fish Habitat	Present (check)	Totàl Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
Seasonally Flooded Swamp				10	
Permanently Flooded Swamp				10	

Continue to Step 7

CALCULATION OF FINAL SCORE

NOTE: Scores for Steps 4, 5 and 6 are only recorded if Steps 1 and 3 have not been scored.

- A. Score from Step 1 (fish habitat not present)
- B. Score from Step 3 (significance known)
- C. Score from Step 4 (Low Marsh) D. Score from Step 5 (High Marsh)
- E. Score from Step 6 (Swamp)

Calculation of Final Score for Spawning and Nursery Habitat = A or B or Sum of C, D, and E

Score for Spawning and Nursery Habitat (maximum 100 points)

Southern OWES

4.2.6.2 Migration and Staging Habitat

Step 1:		
X	Staging or Migration Habitat is not present in the wetland	Go to Step 4, Score 0 points
	Staging or Migration Habitat is present in the wetland,	
	significance of the habitat is known	Go to Step 2
	Staging or Migration Habitat is present in the wetland, significance of the habitat is not known.	Go to Step 3
Step 2:	Select the highest appropriate category below. Ensure that docum	entation is attached to the data record,
	Significant in Ecoregion	Score 25 points in Step 4
	Significant in Ecodistrict	Score 15 points in Step 4
	Locally Significant	Score 10 points in Step 4
	Fish staging and/or migration habitat present, but not as above	Score 5 points in Step 4
Source	of information: NER/EIS - FW	
Step 3:	Select the highest appropriate category below based on presence o the dominant site type). Refer to Site Types recorded earlier (section	
-	Wetland is riverine at rivermouth or lacustrine at rivermouth	Score 25 points in Step 4
	Wetland is riverine, within 0.75 km of rivermouth	Score 15 points in Step 4
	Wetland is lacustrine, within 0.75 km of rivermouth	Score 10 points in Step 4
	Fish staging and/or migration habitat present, but not as above	Score 5 points in Step 4
Step 4:	Enter a score from only one of the three above Steps.	
	Score for	Staging and Migration Habitat

(maximum 25 points)

4.3 ECOSYSTEM AGE

	- 1	Fractional Area		Score
Bog	-		x 25 =	
Fen, on deeper soils; floating mats or marl	=		x 20 =	*
Fen, on limestone rock	=		x 5 =	
Swamp	=	0.67	x 3 =	2.0
Marsh	=	0.33	x 0 =	0.0
	Tot	al	-	2.0

Ecosystem Age Score (maximum 25 points) _______

4.4 GREAT LAKES COASTAL WETLANDS

Choose one only.

Wetland < 10 ha	7	10 pts
Wetland 10-50 ha	=	25
Wetland 51-100 ha	=	50
Wetland > 100 ha	-	75

Great Lakes Coastal Wetland Score (maximum 75 points)

Southern OWES 4

GENERAL INFORMATION

Wetland Evaluator(s)	
Name: FERGUS NICOLL	Affiliation: Golder/WSP
Signature: Yeigh Mall	*
(by signing, I confirm that this evaluation has been unde Wetland Evaluation System Southern Manual 4th Edition	
Name: GWENDOLYN WEEKS Signature: G-Weeks	Affiliation: Golder/WSP
(by signing, I confirm that this evaluation has been under Wetland Evaluation System Southern Manual 4th Edition	taken and completed in accordance with the Ontario
Name:	Affiliation:
Signature:	
(by signing, I confirm that this evaluation has been under Wetland Evaluation System Southern Manual 4th Edition	
Name:	Affiliation:
Name:	
2	Affiliation:
Signature:(by signing, I confirm that this evaluation has been under	Affiliation: taken and completed in accordance with the Ontario / Northern Manual 2nd Edition)
Signature:	Affiliation: taken and completed in accordance with the Ontario / Northern Manual 2nd Edition)
Signature:(by signing, I confirm that this evaluation has been under Wetland Evaluation System Southern Manual 4th Edition Name:	Affiliation: taken and completed in accordance with the Ontario / Northern Manual 2nd Edition) Affiliation: taken and completed in accordance with the Ontario
Signature:	Affiliation: taken and completed in accordance with the Ontario / Northern Manual 2nd Edition) Affiliation: taken and completed in accordance with the Ontario / Northern Manual 2nd Edition)
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vveatner C								
i) at time o	f field work:	VALIDYS	-myltiple	trips	OVE	multi	ple yea	rs.
i) at time c	Theid Work,							
ii) summer	: conditions in general:		10		1	(

WFT		

1.0 BIOLOGICAL COMPONENT

15 15 2

1.1 PRODUCTIVITY

- 1.1.1 Growing Degree-Days/Soils
- 1.1.2 Wetland Type
- 1.1.3 Site Type

1.2 BIODIVERSITY

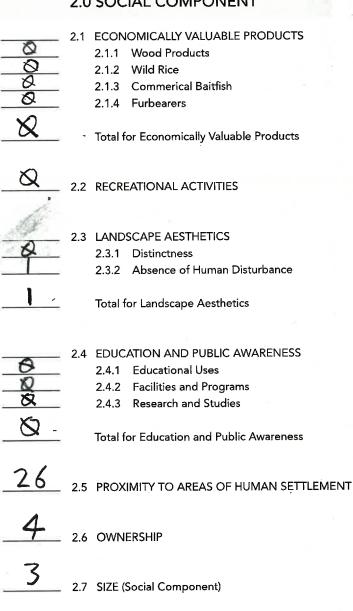
- 1.2.1 Number of Wetland Types
- 1.2.2 Vegetation Communities
- 1.2.3 Diversity of Surrounding Habitat
- 1.2.4 Proximity to Other Wetlands
- 1.2.5 Interspersion
- 1.2.6 Open Water Type

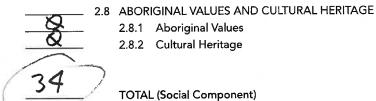


1.3 SIZE (Biological Component)

TOTAL (Biological Component)

2.0 SOCIAL COMPONENT





3.0 HYDROLOGICAL COMPONENT

100

3.1 FLOOD ATTENUATION

21

3.2 WATER QUALITY IMPROVEMENT

3.2.1 Short Term Water Quality Improvement

3.2.2 Long Term Nutrient Trap3.2.3 Groundwater Discharge

Total for Water Quality Improvement

Ø

3.3 CARBON SINK

Q

3.4 SHORELINE EROSION CONTROL

5Q 4 3.5 GROUNDWATER RECHARGE

3.5.1 Site Type

3.5.2 Soil Recharge Potential

54

Total for Groundwater Recharge

179

TOTAL (Hydrological Component)

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY

(0)	
38	

4.1.1 Wetlands

4.1.1.1 Rarity within the Landscape

4.1.1.2 Rarity of Wetland Type



Total for Wetland Rarity



4.1.2 Species

4.1.2.1 Provincially Significant Animals

4.1.2.2 Provincially Significant Plants

4.1.2.3 Regionally Significant Species

4.1.2.4 Locally Significant Species

5×3

Total for Species Rarity

4.2 SIGNIFICANT FEATURES AND HABITATS



4.2.1 Colonial Waterbirds4.2.2 Winter Cover for Wildlife

4.2.3 Waterfowl Staging and/or Moulting Areas

4.2.4 Waterfowl Breeding

4.2.5 Migratory Passerine, Shorebird or Raptor Stopover Area

XX XX 4.2.6 Fish Habitat

4.2.6.1 Spawning and Nursery Habitat

4.2.6.2 Migration and Staging Habitat

20

Total for Significant Features and Habitats



4.3 ECOSYSTEM AGE



4.4 GREAT LAKES COASTAL WETLANDS



TOTAL FOR SPECIAL FEATURES COMPONENT (not to exceed 250)

2.0 TOTAL FOR SOCIAL COMPONENT

3.0 TOTAL FOR HYDROLOGICAL COMPONENT

102
4.0 TOTAL FOR SPECIAL FEATURES COMPONENT

403 TOTAL WETLAND SCORE

APPENDIX 4 - WETLAND DATA SUMMARY FORM

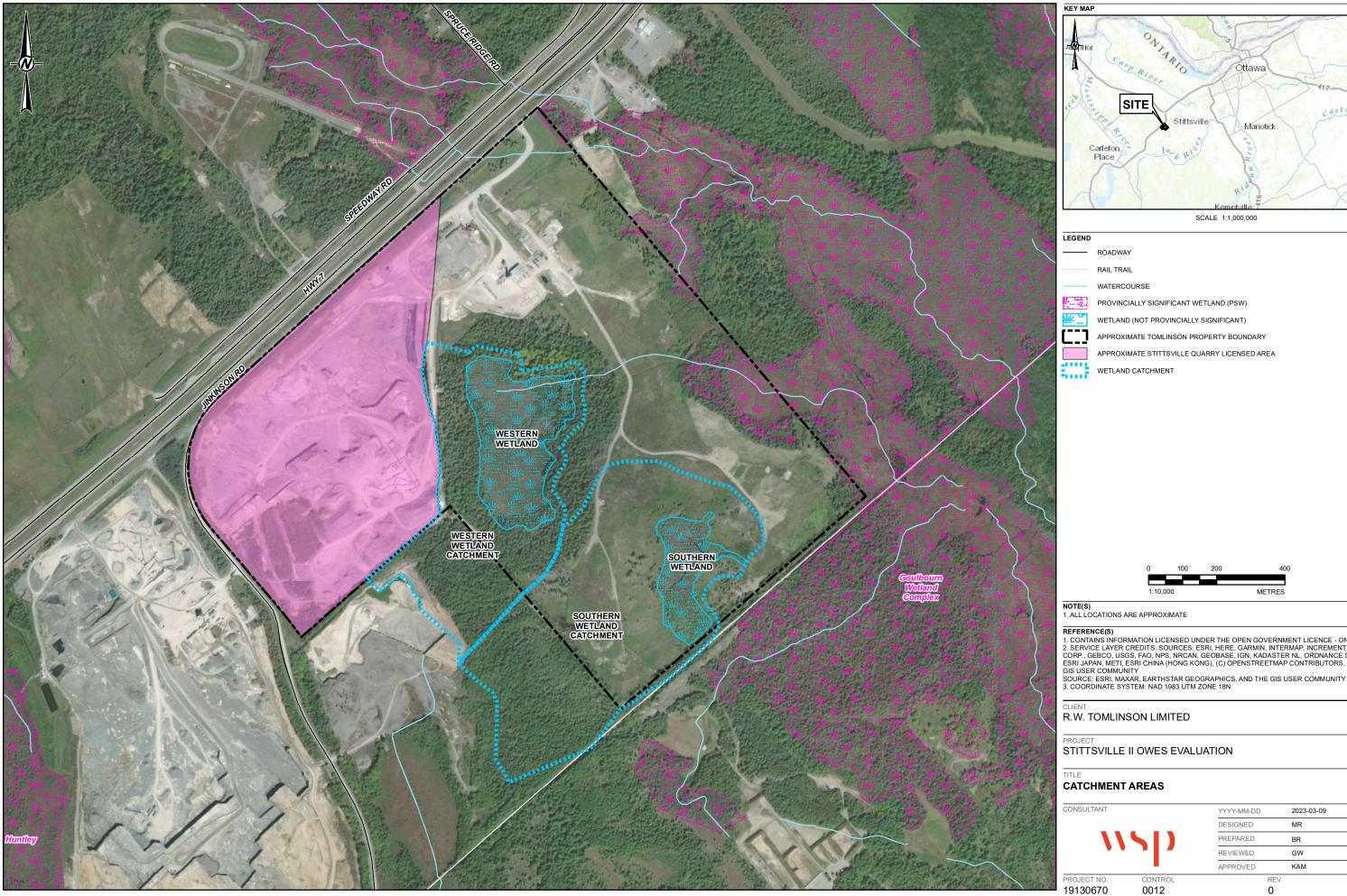
Complete versions of the data form in this appendix should be attached to the wetland data record and included within the wetland evaluation file.

Wetland Name Western Wetland Stitsville II Page of

Fergus Nicoll Gwendolyn Weeks

Мар	Field	GPS	Dominant	Forms	#	Domina	ant Species			Open W		Open	Šoil	Site		Fish H	abitat	
Code	Code	Coordinate	Form		Forms			(ha)	Low (la)	High Est.	Mean Est.	Water	(ha)	Туре	% Fish Habitat	Area (ha)	Habitat Type	Key Veg Group
MI	MI	1	re	re,no	3	see	Attached	3.40	Q	10	١	8L	1	P	8			
51	51			Cityne	3			1.56	8	Q		IJ		P	8	/		
52	52		+5	+5,15	3			3.79	X	5		0		p	S	(Market and the second	- Marie - Mari
53	53		c	C, ts	3		T.G	5.93	0	5		4		p	Q			مستد
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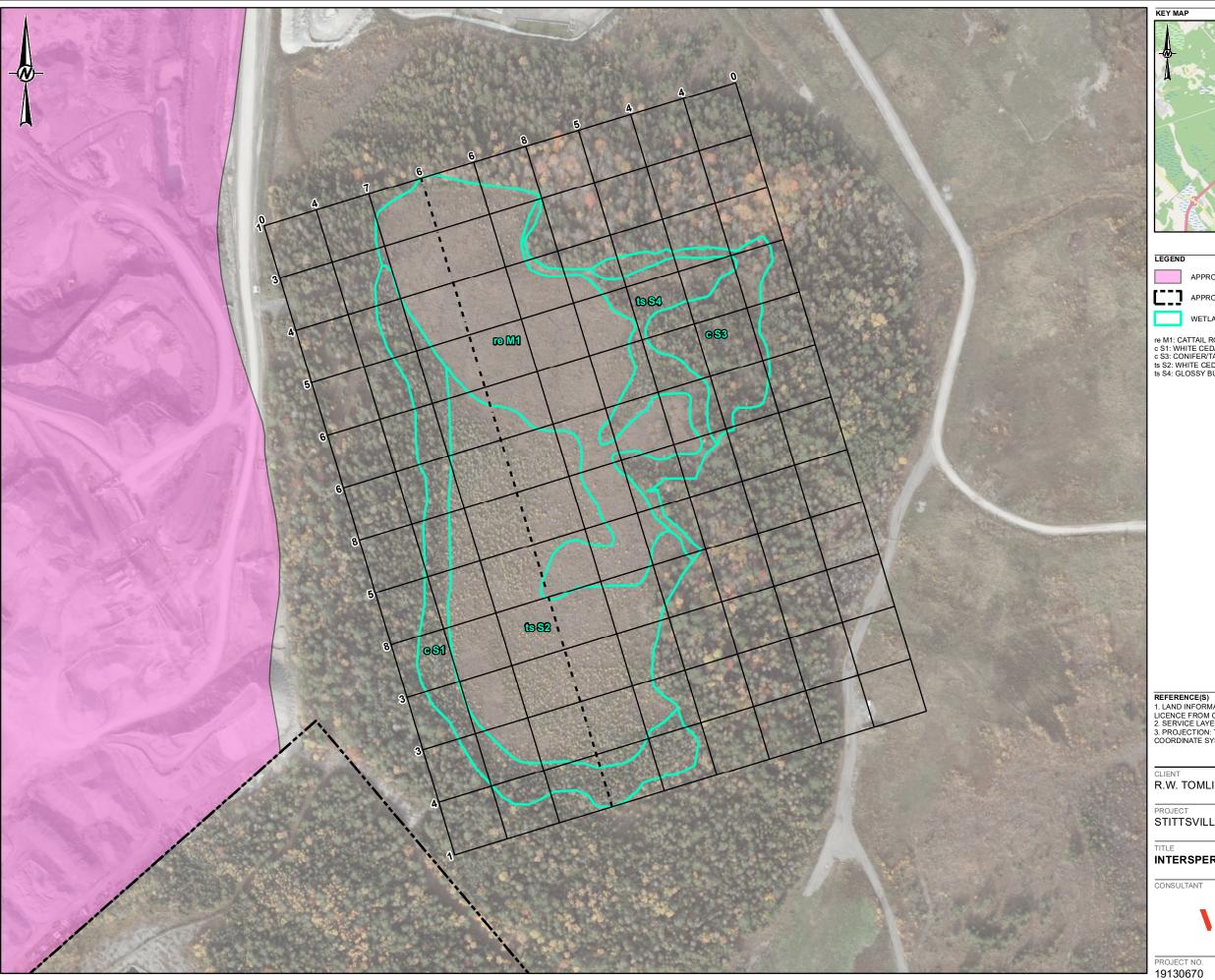
Embru Manotick

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P
CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY,
ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE
GIS USER COMMUNITY

SULTANT		YYYY-MM-DD	2023-
		DESIGNED	MR
- 11		PREPARED	BR
•		REVIEWED	GW
		APPROVED	KAM
JECT NO.	CONTROL	RE\	/.
30670	0012	0	

FIGURE





SCALE 1:200,000

APPROXIMATE STITTSVILLE QUARRY LICENSED AREA

APPROXIMATE TOMLINSON PROPERTY BOUNDARY

WETLAND COMMUNITY

re M1: CATTAIL ROBUST EMERGENT MARSH
c S1: WHITE CEDAR - WHITE SPRUCE CONIFER TREED SWAMP
c S3: CONIFERTALL SHRUB SWAMP
ts S2: WHITE CEDAR - WILLOW TALL SHRUB SWAMP
ts S4: GLOSSY BUCKTHORN - SPECKLED ALDER TALL SHRUB SWAMP

- REFERENCE(S)

 1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014

 2. SERVICE LAYER CREDITS: © OPENSTREETMAP (AND) CONTRIBUTORS, CC-BY-SA

 3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83,
 COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

R.W. TOMLINSON LIMITED

STITTSVILLE II OWES EVALUATION

INTERSPERSION MAPPING

ISULTANT		
11	5)
JECT NO.	CONTR	ROL

YY-MM-DD	2020-09-27
SIGNED	
EPARED	JEM
VIEWED	GW
PROVED	НМ

FIGURE REV. 0009

Field Visit Summary

Year	Date	Survey Type
2021	23 February, 7 March	Deer Yard/Winter Wildlife Use Survey
	April 15, May 17, June 17	Amphibian Surveys
	April 15, May 17, June 17, June 20	Turtle Visual Encounter Surveys
	April 15, May 17, June 20, August 3, September 19	Wildlife Visual Encounter Survey
	May 30, June 20, July 5	Breeding Bird Survey
	May 30, August 3, September 10	Plant Community Survey
	May 30, July 5, September 19	Aquatic/Flow Condition Survey
	June 17	Turtle Nesting Survey
2020	April 28, May 21, June 23	Amphibian Survey
	April 28, May 26, June 9	Turtle Visual Encounter Survey
	May 26, June 9, June 30	Breeding Bird Survey
	April 28, May 26, June 9, June 30, September 17	Wildlife Visual Encounter Survey
	May 26, September 17	Aquatic Surveys, Plant Community Survey
2018	April 27, May 7, May 18, May 26, May 30	Turtle and other Wildlife Visual Encounter Survey