

WETLAND EVALUATION DATA AND SCORING RECORD

Wetland Name: Trail Road Wetland

Geographic Location (municipality, lot/concession, etc):

City of Ottawa, Lot 1, 2, 3, 4 and 5, Concession 4

Map / Photo Locational Reference (e.g., latitude/longitude, NTS map, UTM):

45.213033°, -75.751612°

Eco-District: 6-12

Wetland Size (hectares): 169.44

Vegetation Form	FA
h	79.60
c	0.47
dh	
dc	
ts	19.29
ls	0.64
ds	
gc	
m	
ne	
be	
re	
ff	
f	
su	
u	

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).

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

Soil Type	FA of wetland in soil type	Enter appropriate score-factor from above table	
Clay/Loam	0.30	x 22	= 6.6
Silt/Marl:		x	=
Limestone:		x	=
Sand:	0.70	x 13	= 9.1
Humic/Mesic:		x	=
Fibric:		x	=
Granite:		x	=
Total			

GDD/Soils Score (maximum 30 points) 16

1.1.2 Wetland Type

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

	Fractional Area		Score
Bog		x 3 =	
Fen		x 6 =	
Swamp	1	x 8 =	8
Marsh		x 15 =	
Total		=	

Wetland Type Score (maximum 15 points) 8

1.1.3 Site Type

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

	Fractional Area		Score
Isolated		x 1 =	
Palustrine (permanent or intermittent flow)	1	x 2 =	2
Riverine		x 4 =	
Riverine (at rivermouth)		x 5 =	
Lacustrine (at rivermouth)		x 5 =	
Lacustrine (with barrier beach)		x 3 =	
Lacustrine (exposed to lake)		x 2 =	
Total		=	

Site Type Score (maximum 5 points) 2

1.2 BIODIVERSITY

1.2.1 Number of Wetland Types

(Check only one)

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

Number of Wetland Types Score
(maximum 30 points) 9

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)

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

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 pts	1 = 2 pts	1 = 3 pts
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 = <u>7</u>	9 = 11.5	9 = 16.5
10 = 7.5	10 = 12.5	10 = 18
11 = 8	11 = 13	11 = 19
+ 0.5 for each additional community = 7	+ 0.5 for each additional community =	+ 1.0 for each additional community =

Vegetation Communities Score
(maximum 45 points) 7

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.

<input checked="" type="checkbox"/>	row crop
<input type="checkbox"/>	pasture
<input type="checkbox"/>	abandoned agricultural land
<input checked="" type="checkbox"/>	deciduous forest
<input checked="" type="checkbox"/>	coniferous forest
<input type="checkbox"/>	mixed forest*
<input type="checkbox"/>	abandoned pits and quarries
<input type="checkbox"/>	open lake or deep river
<input type="checkbox"/>	fence rows with deep cover, or shelterbelts
<input type="checkbox"/>	terrain appreciably undulating, hilly or with ravines
<input type="checkbox"/>	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) 3

1.2.4 Proximity to Other Wetlands

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

<input checked="" type="checkbox"/>	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) 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
<input checked="" type="checkbox"/> Within 1 km of other wetlands, but not hydrologically connected by surface water	2
No wetland within 1 km	0

Name and distance (from wetland) of wetlands/waterbodies scored above:

Proximity to other Wetlands Score
(maximum 8 points) 2

1.2.5 Interspersion

Number of Intersections = 108

✓	Number of Intersections (Check one only)	Points
	26 or less	= 3
	27 to 40	= 6
	41 to 60	= 9
	61 to 80	= 12
	81 to 100	= 15
X	101 to 125	= 18
	126 to 150	= 21
	151 to 175	= 24
	176 to 200	= 27
	>200	= 30

Interspersion Score (maximum 30 points) 18

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	Points
✓	Type 1	Open water occupies < 5 % of wetland area	= 8
	Type 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
	Type 5	Open water occupies 26-75% of wetlands (small ponds and embayments are common)	= 30
	Type 6	Open water occupies 76%-95% of wetland (occurring in large central area; vegetation is peripheral)	= 8
	Type 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
	No open water		= 0

Open Water Type Score (maximum 30 points) 8

1.3 SIZE (BIOLOGICAL COMPONENT)

Total Size of Wetland = 169.44 ha

Sum of scores from Biodiversity Subcomponent

1.2.1 9
 + 1.2.2 7
 + 1.2.3 3
 + 1.2.4 2
 + 1.2.5 18
 + 1.2.6 8
47

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
Wetland size (ha)	<20 ha	1	5	7	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
	141-160	11	15	17	19	23	34	46	50	50	50
	<u>161-180</u>	13	<u>17</u>	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

Size Score (Biological Component)
 (maximum 50 points) 17

2.0 SOCIAL COMPONENT

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: 169.44

<input checked="" type="checkbox"/>	< 5 ha	= 0 pts
<input type="checkbox"/>	5 - 25 ha	= 3
<input type="checkbox"/>	26 - 50 ha	= 6
<input type="checkbox"/>	51 - 100 ha	= 9
<input type="checkbox"/>	101 - 200 ha	= 12
<input type="checkbox"/>	> 200 ha	= 18

Source of information:

Wood Products Score (maximum 18 points) 0

2.1.2 Wild Rice

Check only one.

<input type="checkbox"/>	Present (min. size 0.5 ha)	= 6 pts
<input checked="" type="checkbox"/>	Absent	= 0
<input type="checkbox"/>	Harvest not permitted	= 0

Source of information:

Wild Rice Score (maximum 6 points) 0

2.1.3 Commercial Baitfish

Check only one.

<input type="checkbox"/>	Present	= 12 pts
<input checked="" type="checkbox"/>	Absent	= 0
<input type="checkbox"/>	Fishing not permitted	= 0

Source of information:

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
1.	Trapping prohibited	
2.		
3.		
4.		
5.		
6.		

Furbearer Score (maximum 12 points) 0

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.

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

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

Hunting: _____

Nature: _____

Fishing: _____

Recreational Activities Score
 (maximum 80 points) 0 _____

2.3 LANDSCAPE AESTHETICS

2.3.1 Distinctness

Check only one.

<input type="checkbox"/>	Clearly Distinct	= 3 pts
<input checked="" type="checkbox"/>	Indistinct	= 0

Landscape Distinctness Score
(maximum 3 points) 0

2.3.2 Absence of Human Disturbance

Check only one.

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

Details regarding type, extent and location of disturbance scored:

Source of information:

Absence of Human Disturbance Score
(maximum 7 points) 2

2.4 EDUCATION AND PUBLIC AWARENESS

2.4.1 Educational Uses

Check highest appropriate category.

	Frequent	= 20 pts
	Infrequent	= 12
<input checked="" type="checkbox"/>	No visits	= 0

Details regarding the type and frequency of education uses scored above:

Source of information:

Educational Uses Score (maximum 20 points) 0

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 self-guiding trails or brochures available	= 4
	Facilities such as maintained paths (e.g., woodchips), boardwalks, boat launches or observation towers, but no brochures or other interpretation	= 2
<input checked="" type="checkbox"/>	No facilities or programs	= 0

Additional Notes/Comments:

Source of information:

Facilities and Programs Score
(maximum 8 points) 0

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
<input checked="" type="checkbox"/>	No research or reports	= 0

List of reports, publications, research studies etc. scored above:

Research and Studies Score
(maximum 12 points) 0

2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT

Name of Settlement: Stonebridge

Distance of wetland from settlement: <2 Km

Population of settlement: <10 KM (Source: Google maps, estimate)

Circle only the highest score applicable

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

Proximity to Human Settlement Score
(maximum 40 points) 16

2.6 OWNERSHIP

FA of wetland held by or held under a legal contract by a conservation body (as defined by the <i>Conservation Land Act</i>) 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 <input checked="" type="checkbox"/>	<u>0.30</u> x 8 = <u>2.4</u>
FA of wetland area in private ownership, not as above <input checked="" type="checkbox"/>	<u>0.70</u> x 4 = <u>2.8</u>

Source of information:

Ownership Score (maximum 10 points) 5

2.7 SIZE (SOCIAL COMPONENT)

Total Size of Wetland = 169.44 ha Sum of scores from Subcomponents 2.1, 2.2, and 2.5 = 0+0+16 = 16

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
<u>138-178</u>	<u>6</u>	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) 6

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
<input checked="" type="checkbox"/> Unknown	=	0

Additional Comments/Notes:

2.8.2 Cultural Heritage

Significant	=	30 pts
Not Significant	=	0
<input checked="" type="checkbox"/> Unknown	=	0

Additional Comments/Notes:

Aboriginal Values/Cultural Heritage Score
(maximum 30 points) 0

3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

Check one of the following options.

☐

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

☐

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

☒

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

(A) Total wetland area = 169.44 ha

(B) Size of wetland's catchment = 724.82 ha

(C) Size of other detention areas in catchment = 95.82 ha

(D) Total area of upstream detention areas = {A + C} = 265.26 ha

(E) Upstream Detention Factor = {(A/D) x 2} = 1 (maximum 1.0)

(F) Attenuation Factor = {(A/B) x 10} = 1 (maximum 1.0)

Flood Attenuation Final Score = {(E + F) / 2} x 100 = 100

Flood Attenuation Score (maximum 100 points) 100

3.2 WATER QUALITY IMPROVEMENT

3.2.1 Short Term Water Quality Improvement

Step 1: Determination of maximum initial score

<input type="checkbox"/>	Wetland on one of the 5 defined large lakes or 5 major rivers (Go to Step 5A)
<input checked="" type="checkbox"/>	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	=	x 0.7 =	
FA of palustrine wetland with inflows	= 1	x 1.0 =	1
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) 1

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

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

<input type="checkbox"/>	Over 50% agricultural and/or urban	= 1.0
<input checked="" type="checkbox"/>	Between 30 and 50% agricultural and/or urban	= 0.8
<input type="checkbox"/>	Over 50% forested or other natural vegetation	= 0.6

LUF (maximum 1.0) 0.8

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 (c, h, ts, ls, gc, m)	= x 0.75 =	0.75
FA of wetland with emergent, submergent or floating vegetation (re, be, ne, su, f, ff)	= x 1.0 =	
FA of wetland with little or no vegetation (u)	= x 0.5 =	

Sum (PUF cannot exceed 1.0) 0.75

Step 5: Calculation of final score

<input type="checkbox"/>	Wetland on defined 5 major lakes or 5 major rivers	0
<input checked="" type="checkbox"/>	All other wetlands – calculate as follows	
	Initial score	60
	Watershed Improvement Factor (WIF)	<u>1</u>
	Land Use Factor (LUF)	<u>0.8</u>
	Pollutant Uptake Factor (PUF)	<u>0.75</u>
	Final score: $60 \times \text{WIF} \times \text{LUF} \times \text{PUF} =$	<u>36</u>

Short Term Water Quality Improvement Score
(maximum 60 points) 36

3.2.2 Long Term Nutrient Trap

Step 1:

<input type="checkbox"/>	Wetland on defined 5 major lakes or 5 major rivers = 0 points
<input checked="" type="checkbox"/>	All other wetlands (Proceed to Step 2)

Step 2: Choose only one of the following settings that best describes the wetland being evaluated

<input type="checkbox"/>	Wetland located in a river mouth	= 10 pts
<input type="checkbox"/>	Wetland is a bog, fen, or swamp with more than 50% of the wetland being covered with organic soil	= 10
<input type="checkbox"/>	Wetland is a bog, fen, or swamp with less than 50% of the wetland being covered with organic soil	= 3
<input type="checkbox"/>	Wetland is a marsh with more than 50% of the wetland covered with organic soil	= 3
<input checked="" type="checkbox"/>	None of the above	= 0

Long Term Nutrient Trap Score
(maximum 10 points) 0

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 be the dominant type in the wetland.

Wetland Characteristics	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
	Wetland area:	Large (>50%) = 0	Moderate (5-50%) = 2	Small (<5%) = 5
	Upslope catchment area			
	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:

Groundwater Discharge Score
(maximum 30 points) 14

3.3 CARBON SINK

Check only one of the following:

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

Source of information:

Carbon Sink Score

(maximum 5 points) 0

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:

<input checked="" type="checkbox"/>	Wetland entirely isolated or palustrine	= 0 pts
<input type="checkbox"/>	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”).

<input type="checkbox"/>	Trees and shrubs	= 15 pts
<input type="checkbox"/>	Emergent vegetation	= 8
<input type="checkbox"/>	Submergent vegetation	= 6
<input type="checkbox"/>	Other shoreline vegetation	= 3
<input type="checkbox"/>	No vegetation	= 0

Shoreline Erosion Control Score

(maximum 15 points) 0

3.5 GROUNDWATER RECHARGE

3.5.1 Site Type

Wetland > 50% lacustrine (by area) or located on one of the five major rivers		= 0 pts		
Wetland not as above. Calculate final score as follows:				
■ FA of isolated or palustrine wetland	=	1	x 50 =	50
■ FA of riverine wetland	=		x 20 =	
■ FA of lacustrine wetland (not dominant site type)	=		x 0 =	

Groundwater Recharge/Wetland Site Type Score
(maximum 50 points) 50

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).

Dominant Wetland Type		Group A, B, C (sands, gravels, loams)	Group D (clays, substrates in high water tables, shallow substrates over impervious materials such as bedrock)
	Lacustrine or major river	0	0
	Isolated	10	5
	Palustrine	7	4
	Riverine (not on a major river)	5	2

Groundwater Recharge/Wetland Soil Recharge
Potential Score (maximum 10 points) 7

4.0 SPECIAL FEATURES

COMPONENT

4.1 RARITY

4.1.1 Wetland Types

Ecodistrict	Rarity within the Landscape (4.1.1.1)	Rarity of Wetland Type (4.1.1.2)			
		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	<input checked="" type="checkbox"/> 0	30	<input checked="" type="checkbox"/> 0	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) 0

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) 0

4.1.2 Species

4.1.2.1 Provincially Significant Animal Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source
Wood Thrush	<i>Hylocichla mustelina</i>	Breeding/nesting	June 2024	Stantec, site visit
Eastern Wood-Pewee	<i>Contopus virens</i>	Breeding/nesting	June 2024	Stantec, site visit
Little Brown Myotis	<i>Myotis lucifugus</i>	Roosting	June 2024	Stantec, site visit
Tri-colored Bat	<i>Perimyotis subflavus</i>	Roosting	June 2024	Stantec, site visit
Eastern Red Bat	<i>Lasiurus borealis</i>	Roosting	June 2024	Stantec, site visit
Hoary Bat	<i>Lasiurus cinereus</i>	Roosting	June 2024	Stantec, site visit
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	Roosting	June 2024	Stantec, site visit

Blanding's Turtle *Emydoidea blandingii* Within 2 km of reg. N/A MECP

Additional Notes/Comments:

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 <input checked="" type="checkbox"/>	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 Animal Species
(no maximum) 135

4.1.2.2 Provincially Significant Plant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source
Black Ash	Fraxinus nigra	General habitat	August 2024	Stantec, site visit

Additional Notes/Comments:

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) 50

4.1.2.3 Regionally Significant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source

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) 0

4.1.2.4 Locally Significant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source

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

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

Locally Significant Species Score
(no maximum score) 0

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 Source	Points
Currently nesting			= 50
Known to have nested within the past 5 years			= 25
Active feeding area (great blue heron excluded)			= 15
None known		<input checked="" type="checkbox"/>	= 0

Additional Notes/Comments:

Colonial Waterbird Nesting Score
(maximum 50 points) 0

4.2.2 Winter Cover for Wildlife

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

<input type="checkbox"/>	Provincially significant	= 100 pts
<input type="checkbox"/>	Significant in Ecoregion	= 50
<input type="checkbox"/>	Significant in Ecodistrict	= 25
<input type="checkbox"/>	Locally significant	= 10
<input checked="" type="checkbox"/>	Little or poor winter cover	= 0

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

Source of information:

Winter Cover for Wildlife Score
(maximum 100 points) 0

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	Moulting
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	<input checked="" type="checkbox"/> = 0	<input checked="" type="checkbox"/> = 0

Species/habitat/vegetation community scored (e.g., approx 20 mallards in W3):

Source of information:

Waterfowl Staging/Moulting Score
(maximum 150 points) 0

4.2.4 Waterfowl Breeding

Check highest level of significance.

	Nationally/internationally significant	= 150 pts
	Provincially significant	= 100
	Significant in the Ecoregion	= 50
	Significant in Ecodistrict	= 25
	Habitat Suitable	= 10
	Habitat not suitable	<input checked="" type="checkbox"/> = 0

Species/habitat/vegetation community scored (e.g., mallard in W3):

Source of information:

Waterfowl Breeding Score
(maximum 150 points) 0

4.2.5 Migratory Passerine, Shorebird or Raptor Stopover Area

Check highest level of significance.

	Nationally / internationally significant	= 150 pts
	Provincially significant	= 100
	Significant in Ecoregion	= 50
	Significant in Ecodistrict	= 25
	Known to occur	= 10
	Not possible / Unknown	<input checked="" type="checkbox"/> = 0

Species/habitat/vegetation community scored:

Source of information:

Passerine, Shorebird or Raptor Stopover Score
(maximum 100 points) 0

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 present 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 option

☐

Significance of the spawning and nursery habitat within the wetland is known

Go to Step 3

☐

Significance of the spawning and nursery habitat within the wetland is not known

Go through Steps 4, 5 and 6

Step 3: Select the highest appropriate category below, attach documentation:

Significant in Ecoregion

Go to Step 7, Score 100 points

Significant in Ecodistrict

Go to Step 7, Score 50 points

Locally Significant Habitat (5.0+ ha)

Go to Step 7, Score 25 points

Locally Significant Habitat (<5.0 ha)

Go to Step 7, Score 15 points

Source of information:

Step 4: Low Marsh = the 'permanent' marsh area, from the existing 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**.

Scoring for Presence of Key Vegetation Groups – 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				11	
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				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 5: High Marsh = the 'seasonal' 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.

<input type="checkbox"/>	High marsh not present	Go to Step 6
<input type="checkbox"/>	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**.

Scoring for Presence of Key Vegetation Groups – 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 (<i>maximum 25 points</i>)						
Continue to Step 6						

Step 6:

<input type="checkbox"/>	Swamp containing fish habitat not present	Go to Step 7
<input type="checkbox"/>	Swamp containing fish habitat present	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**.

Scoring Swamps for Fish Habitat (Seasonally flooded; Permanently flooded)					
Swamp Containing Fish Habitat	Present (check)	Total Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
Seasonally Flooded Swamp	<input type="checkbox"/>			10	
Permanently Flooded Swamp	<input type="checkbox"/>			10	
Total Score for Swamp (maximum 20 points)					<input type="text"/>
Continue to Step 7					

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) | = | <u>0</u> |
| B. Score from Step 3 (significance known) | = | <u>0</u> |
| C. Score from Step 4 (Low Marsh) | = | <u>0</u> |
| D. Score from Step 5 (High Marsh) | = | <u>0</u> |
| E. Score from Step 6 (Swamp) | = | <u>0</u> |

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

<p>Score for Spawning and Nursery Habitat</p> <p>(maximum 100 points) <u>0</u></p>
--

4.2.6.2 Migration and Staging Habitat

Step 1:

☒

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 documentation 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:

Step 3: Select the highest appropriate category below based on presence of the designated site type (i.e. does not have to be the dominant site type). Refer to Site Types recorded earlier (section 1.1.3). Attach documentation.

☐

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) 0

4.3 ECOSYSTEM AGE

		Fractional Area		Score
Bog	=		x 25 =	
Fen, on deeper soils; floating mats or marl	=		x 20 =	
Fen, on limestone rock	=		x 5 =	
Swamp	=	1	x 3 =	3
Marsh	=		x 0 =	
Total			=	

Ecosystem Age Score (maximum 25 points) 3

4.4 GREAT LAKES COASTAL WETLANDS

Choose one only.

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

N/A

Great Lakes Coastal Wetland Score
(maximum 75 points) 0

GENERAL INFORMATION

Wetland Evaluator(s)

Name: Martine Esraelian Affiliation: Stantec Consulting Inc.

Signature: _____

(by signing, I confirm that this evaluation has been undertaken and completed in accordance with the Ontario Wetland Evaluation System Southern Manual 4th Edition / Northern Manual 2nd Edition)

Name: _____ Affiliation: _____

Signature: _____

(by signing, I confirm that this evaluation has been undertaken and completed in accordance with the Ontario Wetland Evaluation System Southern Manual 4th Edition / Northern Manual 2nd Edition)

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Name: _____ Affiliation: _____

Signature: _____

(by signing, I confirm that this evaluation has been undertaken and completed in accordance with the Ontario Wetland Evaluation System Southern Manual 4th Edition / Northern Manual 2nd Edition)

Date(s) wetland visited (in field): _____

Date evaluation completed: April 3, 2025

Estimated time devoted to completing the field survey in person hours: 70 hours

Weather Conditions

- i) at time of field work: _____
- ii) summer conditions in general: _____

WETLAND EVALUATION SCORING RECORD

WETLAND NAME: Trail Road Wetland

1.0 BIOLOGICAL COMPONENT

	1.1	PRODUCTIVITY
<u>16</u>		1.1.1 Growing Degree-Days/Soils
<u>8</u>		1.1.2 Wetland Type
<u>2</u>		1.1.3 Site Type
<u>26</u>		
	1.2	BIODIVERSITY
<u>9</u>		1.2.1 Number of Wetland Types
<u>7</u>		1.2.2 Vegetation Communities
<u>3</u>		1.2.3 Diversity of Surrounding Habitat
<u>2</u>		1.2.4 Proximity to Other Wetlands
<u>18</u>		1.2.5 Interspersion
<u>8</u>		1.2.6 Open Water Type
<u>47</u>		
<u>17</u>	1.3	SIZE (Biological Component)
<u>90</u>		TOTAL (Biological Component)

2.0 SOCIAL COMPONENT

_____	2.1 ECONOMICALLY VALUABLE PRODUCTS
<u>0</u>	2.1.1 Wood Products
<u>0</u>	2.1.2 Wild Rice
<u>0</u>	2.1.3 Commerical Baitfish
<u>0</u>	2.1.4 Furbearers
<u>0</u>	Total for Economically Valuable Products
<u>0</u>	2.2 RECREATIONAL ACTIVITIES
_____	2.3 LANDSCAPE AESTHETICS
<u>0</u>	2.3.1 Distinctness
<u>2</u>	2.3.2 Absence of Human Disturbance
<u>0</u>	Total for Landscape Aesthetics
_____	2.4 EDUCATION AND PUBLIC AWARENESS
<u>0</u>	2.4.1 Educational Uses
<u>0</u>	2.4.2 Facilities and Programs
<u>0</u>	2.4.3 Research and Studies
<u>0</u>	Total for Education and Public Awareness
<u>16</u>	2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT
<u>5</u>	2.6 OWNERSHIP
<u>9</u>	2.7 SIZE (Social Component)
_____	2.8 ABORIGINAL VALUES AND CULTURAL HERITAGE
<u>0</u>	2.8.1 Aboriginal Values
<u>0</u>	2.8.2 Cultural Heritage
<u>32</u>	TOTAL (Social Component)

3.0 HYDROLOGICAL COMPONENT

100	3.1 FLOOD ATTENUATION
	3.2 WATER QUALITY IMPROVEMENT
36	3.2.1 Short Term Water Quality Improvement
0	3.2.2 Long Term Nutrient Trap
14	3.2.3 Groundwater Discharge
50	Total for Water Quality Improvement
0	3.3 CARBON SINK
0	3.4 SHORELINE EROSION CONTROL
	3.5 GROUNDWATER RECHARGE
50	3.5.1 Site Type
7	3.5.2 Soil Recharge Potential
57	Total for Groundwater Recharge
207	TOTAL (Hydrological Component)

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY

4.1.1 Wetlands

0	4.1.1.1	Rarity within the Landscape
0	4.1.1.2	Rarity of Wetland Type

0	Total for Wetland Rarity
---	--------------------------

4.1.2 Species

135	4.1.2.1	Provincially Significant Animals
50	4.1.2.2	Provincially Significant Plants
0	4.1.2.3	Regionally Significant Species
0	4.1.2.4	Locally Significant Species

185	Total for Species Rarity
-----	--------------------------

4.2 SIGNIFICANT FEATURES AND HABITATS

0	4.2.1	Colonial Waterbirds
0	4.2.2	Winter Cover for Wildlife
0	4.2.3	Waterfowl Staging and/or Moulting Areas
0	4.2.4	Waterfowl Breeding
0	4.2.5	Migratory Passerine, Shorebird or Raptor Stopover Area
0	4.2.6	Fish Habitat
0	4.2.6.1	Spawning and Nursery Habitat
0	4.2.6.2	Migration and Staging Habitat

0	Total for Significant Features and Habitats
---	---

3	4.3 ECOSYSTEM AGE
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0	4.4 GREAT LAKES COASTAL WETLANDS
---	----------------------------------

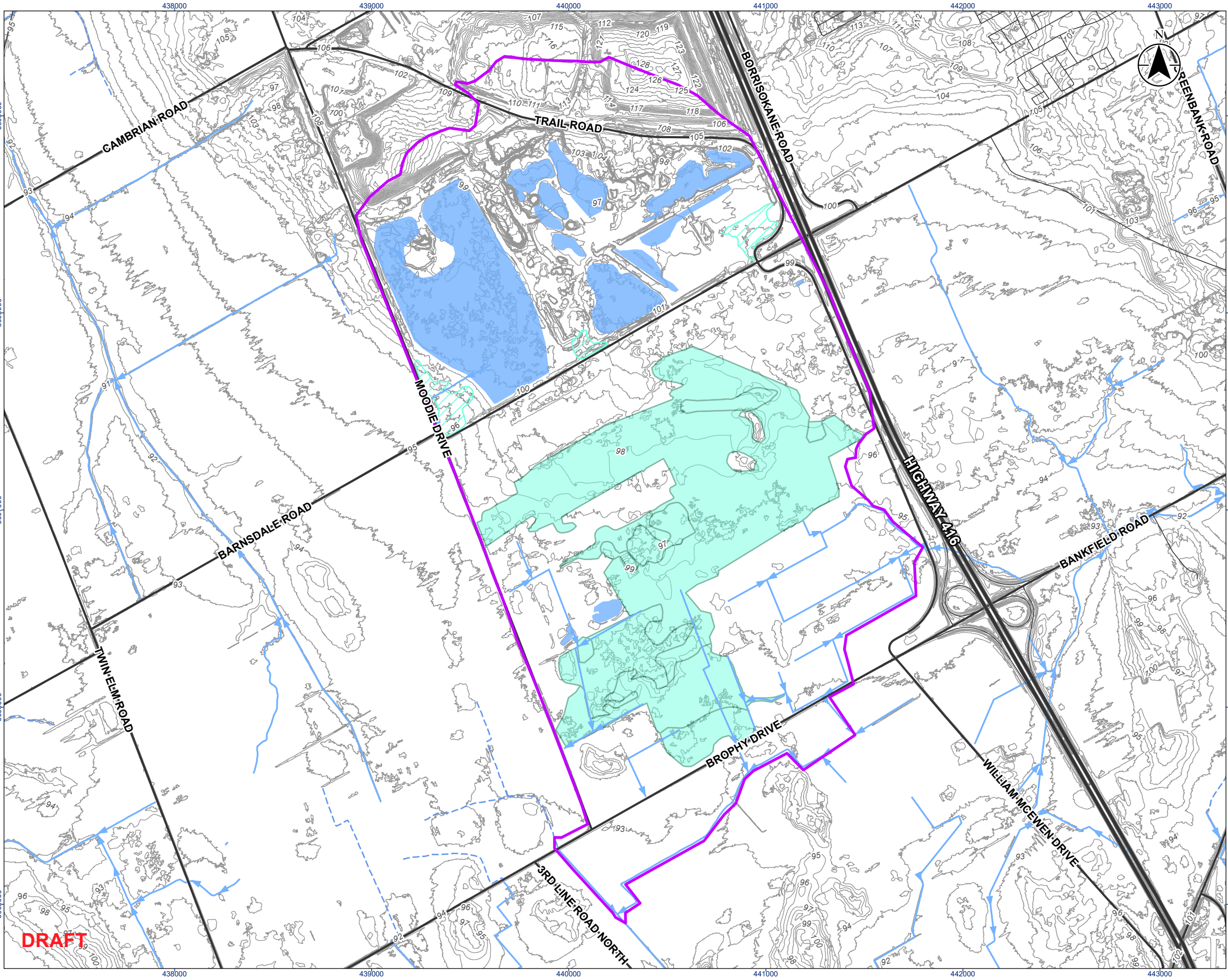
188	TOTAL FOR SPECIAL FEATURES COMPONENT <i>(not to exceed 250)</i>
-----	---

SUMMARY OF EVALUATION RESULT

Wetland _____

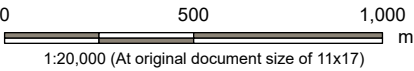
90	1.0	TOTAL FOR BIOLOGICAL COMPONENT
32	2.0	TOTAL FOR SOCIAL COMPONENT
207	3.0	TOTAL FOR HYDROLOGICAL COMPONENT
188	4.0	TOTAL FOR SPECIAL FEATURES COMPONENT
517		TOTAL WETLAND SCORE

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160930480 Wetland_Evaluation.aprx\160930480_Catchment_Revision.aprx
Revised on 3/13/2025 9:45 AM by jsegato



Legend

- Railway
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Contours (1 m)
- Catchment
- Trail Road Wetland Evaluation
- Detention Areas
 - Ponds
 - Wetland, Not evaluated per OWES



- Notes
- Coordinate System: NAD 1983 UTM Zone 18N
 - Contains information licensed under the Open Government Licence – Ontario, and the Open Government Licence - Canada, accessed 2025.
 - Orthomagery provided by © City of Ottawa, 2024. Imagery Date, 2022.



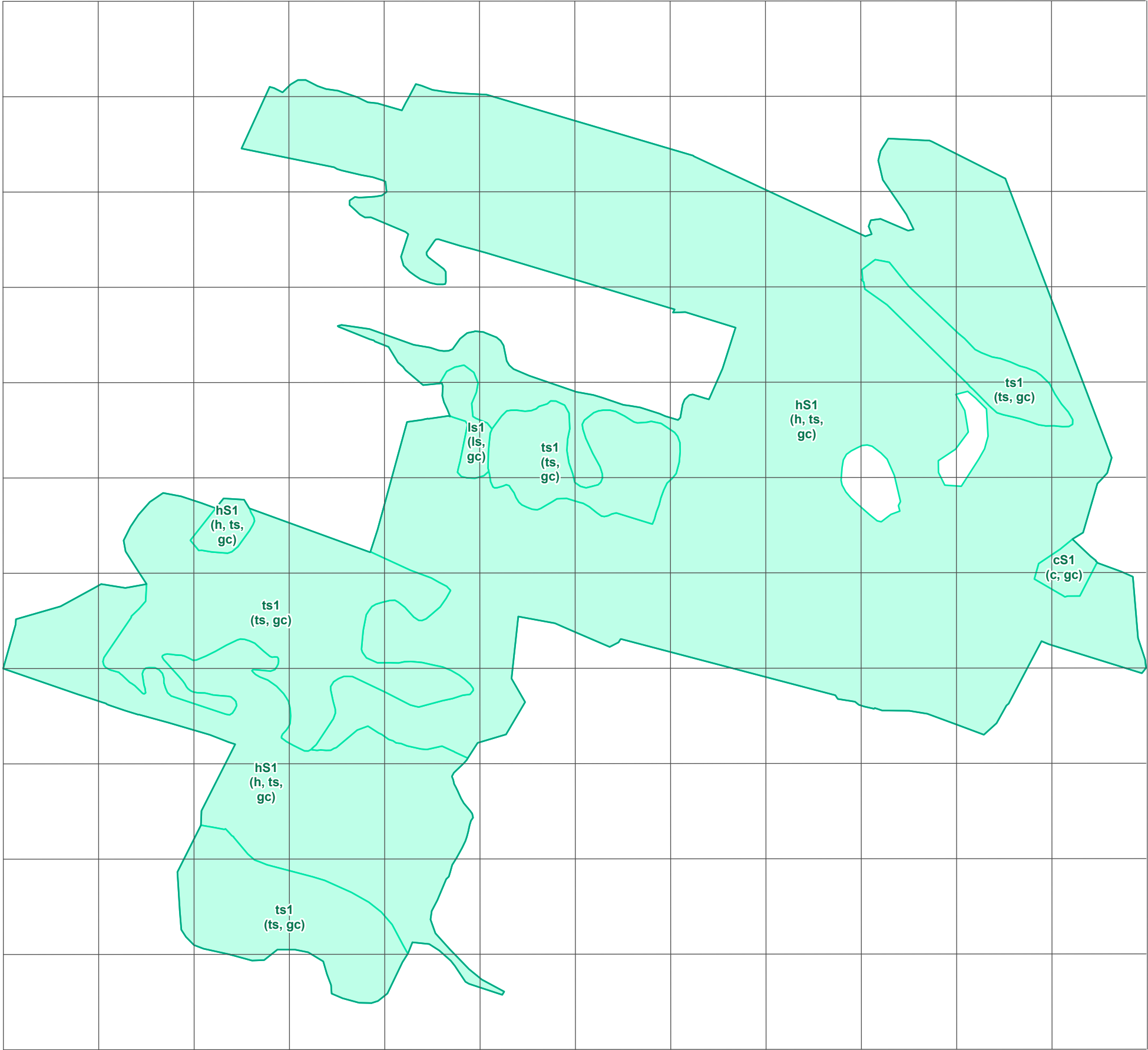
Project Location: City of Ottawa
Prepared by jsegato on 2025-03-13
Technical Review by AW on 2025-01-30
160930480 REV1

Client/Project: WETLAND EVALUATION, TRAIL ROAD BATTERY ENERGY STORAGE SYSTEM

Figure No. 1
Title: Catchment Area
DRAFT

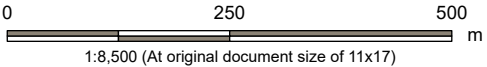
\\Ca0004-ppfss04\work_group\01609\active\160930469\03_data\gis_cad\gis\maps\ecsystems\report_figures\Wetland_Delineation\160930480_Wetland_Evaluation.aprx\160930480_Interspersion_ Revised on 3/13/2025 9:45 AM by jsegato

DRAFT



Legend

- Interspersion Grid
- Outer Wetland Boundary
- Wetland Community



- Notes
- 1. Coordinate System: NAD 1983 UTM Zone 18N
 - 2. Contains information licensed under the Open Government Licence – Ontario, and the Open Government Licence - Canada, accessed 2025.

Interspersion Results
Distance A: 2182m
Distance B: 182m

Project Location
City of Ottawa

160930480 REV1
Prepared by jsegato on 2025-03-13
Technical Review by AW on 2025-01-30

Client/Project
WETLAND EVALUATION, TRAIL ROAD BATTERY
ENERGY STORAGE SYSTEM

Figure No.
2

Title
Interspersion Map

DRAFT