APPENDIX 'I'

Wetland Delineation Report

Standard Wetland Delineation Report: Grand Harbour, Grand Manan, NB

PID 15185465

June 16, 2018

For

Silk Stevens Design and Consulting Engineers

By

Theo Popma MSc. (Wetland Delineator) at Overdale Environmental Inc. 342 Highfield St. Moncton, NB E1C 5R6 tpopma@nb.sympatico.ca www.Overdale.net 506-227-7605

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Introduction:

A Standard Wetland Delineation was conducted by Theo Popma, a recognized Delineator at Overdale Environmental Inc. The property (PID 15185465) is located on Grand Manan Island near Grand Harbour, NB (Figure 1, Appendix A). The western boundary of the PID is adjacent to the parking lot for the local Arena. Wetland is shown to exist on the site according to the map layer at SNB GeoNB (Figure 2). The delineation was conducted in accordance with the NB Wetland Conservation Policy and the Clean Environment Act.

It is recommended that this report be provided by the client to the New Brunswick Dept. of Environment for review.

Legislation

These identified wetlands are subject to the *Watercourse and Wetland Alteration Regulation* (REG # 90-80), of the New Brunswick *Clean Water Act.* Any proposed alteration within these areas or within the 30 meter regulated upland buffer requires permitting through the Department of Environment, Watercourse and Wetlands Alteration Program. These areas may also be subject to *Environmental Impact Assessment* (REG 87-83) of the New Brunswick *Clean Environment Act* and other *Acts* and Regulations. It is the responsibility of the proponent to ensure that all regulatory requirements are met prior to development within these areas.

Site Description (See Photos in Appendix D)

The site consists of a dried-down wetland with an open transition zone dominated by shrubs and a variety of grasses. Previous beaver activity in the area likely affected drainage of this wetland which used to be much larger. Ditching and development at the nearby arena also may account for this. The wetland itself has been reduced to a Shrub Swamp with some Marsh characteristics occupying the lowest poorly drained regions. Some open water is present as well as channeling. Microtopographical relief defined much of the wetland boundary.

Wetlands shown as two separate polygons are joined by a hydrological connection less than 5m wide which is usually not shown in wetland delineations.

Methodology

Surveys were conducted according to the guidelines established by NBENV based on the US Army Corps of Engineer Wetland Delineation Manual (1987), Field Indicators of Hydric Soils in the United States and Lichvar, 2005. The Flora of NB (Hinds, 2000) was consulted for plant identification.

Datapoints were analyzed for soil, hydrology and vegetation characteristics at several different locations (Figure 3). Color of soil strata are described in terms of texture, 'value' and 'chroma' according to a Munsell Soil Color Chart. The wetland delineation line was then completed by walking with a handheld Garmin GPSmap 64st GPS unit.

Datapoint locations and boundary-flag positions are listed in Appendix B. Coordinates are in UTM NAD83.

Wetland habitat was identified by establishing the presence of dominating hydric vegetation, of hydric soils and of hydrological markers such as surface water, soil saturation and channeling. The wetland edge was identified with Data Points (DPs) (wetland and upland) which straddled the boundary. Data sheets are included in Appendix C.

Results

The boundaries of wetland on the PID are shown in the schematic in Figure 3. Photos of each datapoint location are shown in Appendix D.

DPs 1, 3, 4: Upland

Upland sites were dominated by either mature mixed forest or by open drieddown meadows. Meadows were dominated by remnants of hydrophytic plants which occupied the historic wetland, but soils were dry, un-depleted and lacked hydrological indicators such as saturation.

DP 2: Wetland

This region is slightly upslope from the main stream channel which feeds wetland on this PID. DP2 borders on the adjacent PID where open meadow habitat still contains wetland indicators such as water-saturated soils.

DP5: Wetland

This sample point represents the area nearest to the arena and is defined by the presence of Hydrogen Sulfide gas in the sediments and presence of high water table. Channels are nearby as well as open water pools. Some microtopographical relief is present along this edge of the wetland boundary.

Conclusion

This wetland delineation survey on PID 15185465 identified Shrub Swamp Wetland as occupying approximately 0.65ha in two distinct but connected lobes. A small (less than 0.1ha) marshy wetland area was also identified in a nearby clearing by the arena parking lot. Interpretation of aerial photos indicates that the total size of this wetland (both on and off this PID) as approximately 1 Hectare in total. The majority of this wetland happens to be located within the boundaries of the PID.

It should be noted that this is considered an Atypical Area where human impacts affect analysis of wetland indicators, and that it is a Problem Area where natural events such as beaver activity also affect indicators (hydrology and soils, in this case).

Closing

I trust this information meets your current needs. Please feel free to contact me via telephone at (506) 227-7605 or by email at <u>tpopma@nb.sympatico.ca</u> if further clarification or explanation is required.

Sincerely,

Agrima

Theo Popma BSc, MSc. President, Overdale Environmental Inc.

Sources:

The Canadian Wetland Classification System, 2nd ed. 1997. National Wetlands Working Group. Wetlands Research Center, University of Waterloo, ONT.

Environmental Laboratory. (1987). "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss.

Field Indicators of Hydric Soils in the United States. 2006.

Hinds, H. 2000. The Flora of New Brunswick.

Lichvar, R., 2005. Wetland Identification, Delineation and Classification. Humbolt Field Research Institute, Steuben, ME, USA.

U.S. Army Corps of Engineers. 200X. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-0X-XX. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

US Army Corps of Engineer Wetland Delineation Manual. 1987.

US Department of Fish and Wildlife. 1988. National List of Plant Species that occur in Wetlands.

Figure 1. Survey Area





Figure 2. Wetland on PID 15185465 according to GeoNB.



Figure 3. Wetland Delineation Schematic

Appendix B: Datapoint and flag positions

Flags

ID	Lat	Long	ID	Lat	Long
43	44.691324	-66.752146	87	44.69278	-66.7512
44	44.691381	-66.752074	88	44.69275	-66.7512
45	44.691419	-66.752044	89	44.6927	-66.7514
46	44.691482	-66.751999	90	44.69259	-66.7515
47	44.691581	-66.751984	91	44.69263	-66.7516
48	44.691728	-66.752035	92	44.6927	-66.7517
49	44.691815	-66.752074	93	44.69281	-66.7517
50	44.691879	-66.751995	94	44.69293	-66.7515
51	44.691988	-66.752009	95	44.69306	-66.7516
52	44.69212	-66.751991	96	44.69313	-66.7516
53	44.692204	-66.751895	97	44.69309	-66.7517
54	44.692219	-66.751891	98	44.69301	-66.7518
55	44.692356	-66.75177	99	44.69291	-66.7518
56	44.692419	-66.751677	100	44.69289	-66.7518
57	44.692447	-66.751669	101	44.69281	-66.7518
58	44.692497	-66.751566	102	44.69275	-66.7519
59	44.692611	-66.751474	103	44.69267	-66.7519
60	44.692627	-66.751339	104	44.69257	-66.7519
61	44.692596	-66.751253	105	44.69249	-66.7519
62	44.692689	-66.751257	106	44.69242	-66.7521
63	44.692702	-66.751133	107	44.69231	-66.7522
64	44.692526	-66.750859	108	44.69227	-66.7523
65	44.692488	-66.750794	109	44.69219	-66.7523
66	44.692399	-66.75085	110	44.69216	-66.7524
67	44.692413	-66.750933	111	44.69225	-66.7526
68	44.692409	-66.751027	112	44.69218	-66.7527
69	44.692346	-66.750982	113	44.69209	-66.7527
70	44.69231	-66.750883	114	44.69208	-66.7526
71	44.692286	-66.751032	115	44.69207	-66.7525
72	44.692244	-66.751017	116	44.69203	-66.7524
73	44.692188	-66.750854	117	44.69194	-66.7524
74	44.692182	-66.75069	123	44.69208	-66.754
75	44.692318	-66.750647	124	44.69223	-66.7539
76	44.692322	-66.750539	125	44.69202	-66.7538
77	44.692899	-66.750704	126	44.69191	-66.7541
78	44.692899	-66.750703	127	44.69321	-66.7516
81	44.692673	-66.750978	128	44.69329	-66.7517
82	44.692549	-66.750853	129	44.69346	-66.7516
83	44.692605	-66.750748	130	44.69333	-66.7518
84	44.692703	-66.750713	131	44.69338	-66.7517
85	44.692774	-66.750701			
86	44.692735	-66.751197			

Datapoints

ID	Latitude	Longitude
1	44.691671	-66.751837
2	44.692516	-66.750538
3	44.692472	-66.751148
4	44.692197	-66.751857
5	44.692909	-66.751782
6	44.692082	-66.754018

Appendix C: Wetland Datasheets

Project Site	Gran	d Man	an [.] G	rand	Harbour						Date:	16-	Jun-	18		ç	ample	Poir	nt· 1				loh	#·		
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¹ Type:C=Cor	ncentration,D	=Depleti	on,R	M=Redu	uced	Matrix,CS	S=Covere	d or Co	ated San	d Gra	ins.2Lo	ocatio	n:PL=	Pore	Lining	,M=M	atrix	
¹ Type:C=Cor	ncentration, D	=Depleti	on,R	M=Redu	uced	Matrix,CS	6=Covere	d or Co	ated San	d Gra	ins.2Lo	ocatio	n:PL=	Pore	Lining	,M=M	atrix	
¹ Type:C=Con Hydric Soil	ncentration, D	=Depleti	on,R	M=Redu	uced	Matrix, CS	S=Covere	d or Co	ated San	d Gra	ins.2Lo	ocatio	n:PL=	Pore	Lining	,M=M	atrix	
¹ Type:C=Co Hydric Soil Histosol	ncentration, D Indicators: (A1)	=Depleti	on,R	M=Redi	uced	Matrix,CS Sandy R	S=Covere	d or Co	ated San	d Gra	ins.2Lo	ocatio	n:PL=	Pore	Lining	,M=M	atrix	
¹ Type:C=Co <u>Hydric Soil</u> Histosol Histic E	ncentration,D Indicators: (A1) pipedon (A2)	=Depleti	on,R	M=Redu	JCed	Matrix,CS Sandy R Stripped	S=Covere edox (S5 Matrix (S	d or Co.	ated San	d Gra	ins.2Lo	ocatic	n:PL=	Pore	Lining	,M=M	atrix	
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¹ Type:C=Co <u>Hydric Soil</u> Histosol Histic E Black H Hydroge Stratified Depleted Thick Da Sandy M Scm Mu Sandy C Restrictive	Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4 d Layers (A5) d Below Dark ark Surface (<i>I</i> Aucky Minera cky Peat or F Sleyed Matrix aver Twre (<i>I</i> f	=Depleti) Surface A12) I (S1) Peat (S3 (S4)	on,R (A11	() () () () () () () () () () () () () (Matrix, CS Sandy R Stripped Dark Sur Polyvalue Thin Darl Loamy C Depleted Redox D Depleted Redox D Depreth	S=Covere Matrix (S faces (S e Below S k Surface Sleyed M I Matrix (ark Surfa I Dark Su epressio	d or Co. 5) 56) 7) Surface 6 (S9) atrix (F2 F3) Ince (F6) Inface (F6) Inface (F8)	(S8) (S8) (7)	d Gra	ins.2Lo			Pore				
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¹ Type:C=Co Hydric Soil Histosol Histic E Black H Hydroge Stratified Depleted Thick Da Sandy M Scm Mu Sandy C Restrictive L	Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4 d Layers (A5) d Below Dark ark Surface (<i>A</i> Aucky Minera cky Peat or F Gleyed Matrix ayer Type (if et al.	=Depleti) Surface A12) I (S1) Peat (S3 (S4) observed	on,R (A11	() () () () () () () () () () () () () (Matrix,CS Sandy R Stripped Dark Sur Polyvalue Thin Darl Loamy C Depleted Redox D Depleted Redox D Deplett	S=Covere Matrix (S faces (S e Below S k Surface Sleyed M I Matrix (ark Surfa I Dark Su epressio	d or Co. 5) 56) 7) Surface 6 (S9) atrix (F2 F3) Ince (F6) Inface (F6) Inface (F8)	(S8) (S8) 2)	d Gra	ins.2Lo	Cocatic	Press	Pore	Lining			
¹ Type:C=Co <u>Hydric Soil</u> Histosol Histic E Black H Hydroge Stratified Depleted Thick Da Sandy M Scm Mu Sandy C Restrictive L Comments:	Incentration, D Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4 d Layers (A5) d Below Dark ark Surface (<i>A</i> /lucky Minera cky Peat or F Sleyed Matrix ayer Type (if the second s	=Depleti) Surface A12) I (S1) Peat (S3 (S4) observed	on,R (A11)		Matrix, CS Sandy R Stripped Dark Sur Polyvalue Thin Darl Loamy C Depleted Redox D Depleted Redox D Depletted	S=Covere Matrix (S faces (S e Below S k Surface Gleyed M I Matrix (ark Surfa I Dark Su epressio	d or Co 5) 56) 7) Surface 6 (S9) atrix (F2 F3) Ince (F6) Inface (F6) Inface (F8)	(S8) (S8) 2)	d Gra	ins.2Lo	Soli	n:PL=	Pore	Lining			

Project Sit	e: Gr	and N	/lana	n; Gra	and H	larbour					C	Date:	16-	Jun-	18			Samp	le P	oint:	5				Job	#:		
Client/own	er:	Silk	Ste	vens	Limite	ed					F	Field Ir	nvesti	aato	r(s): 1	Theo P	opma	1 P			1 -							
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x Satu	ration	(A3)						Marl [)epos	its (B1	5)											
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Sed	ment	Depos	its (E	32)				Oxidized Rhizospheres on Living Roots (C3)														
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Alga	I Mat	of Cru	st (B	4)				Recer	it Iron	reduct	tion in	tilled Soil	ls (C6	5)								
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Mos	s Trim	Lines	(B16	6)				Shallo	w Aq	uitard ((D3)											
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Tree	- Stra	atum (Plot s	ize.	9m2)	0	%Cover		Sne	ries		Ind	licat	tor Status			Dor	nina	nce Te	st Wor	kshe	et:				_
1100	5 500		. 101 3		5112	-	\dashv		-	Spe			ind					501						-	-		_
1				_			_						#N	1/ 1				# of	F Don	ninant S	necies	_					_
2	_								-				#11	"	-			that				۸C·		3			_
2							-	_	-				-		_			linal				<u>40.</u>	_	3	-		_
3							-	_	-						_			Tota		of Domin	ant		_				_
4							_	_							-			1018	ai # (_	0			_
5							_	_							_			Spe	cies	across	ali stra	<u>ta:</u>	_	3			
6							_																				
			_							_			_					% C	of Do	minant S	species	3					
							C)	=	Tot	al Co	over	_	_				that	are	OBL,FA	<u>.CW,F/</u>	AC:		100			_
Shru	ub St	ratum:	(Plot	size:	5m2	2)						_	_				_				_	_				_
								_					_														_
1		Spirae	a alb	а			5	5		Х			fac	2	_			Pre	vale	nce In	dex W	orks	heet:				
2							_								_					Total %	Cover (of:	_	Multip	bly by	<u>v:</u>	
3							_								_			OBI	L Sp	ecies				x 1 =		0	_
4							_						_					FAC	CW S	Species				x 2 =		0	_
5																		FAC	C Sp	ecies				x 3 =		0	_
							5	5	=	Tot	al Co	over						FAC	CU S	pecies				x 4 =		0	
																		ULF	o Sp	ecies				x 5 =		<u>0</u>	
Hert	b Str	atum:	Plot S	Size:	1m2	2)												Colu	umn	Totals:	0					0	
																				Preval	ence l	ndex	= B/	A =	##		
1		Scirpu	ıs mic	rocar	pus								obl	I													
2		Houst	onia c	aerul	ea		5	51		х			fac	- -													
3		Carex	canes	scens			1	15					obl	1				Hyc	drop	hytic Ve	getati	on In	ndica	tors:			
4		Juncu	s effu	isus			2	20		х			fac	cw				x	Rap	id Test f	or Hyd	rolic '	Veget	ation			
5		Iris ve	rsicol	or			1	10					fac	CW4				х	Don	ninance	Test is	>50	%				
-										1									Pre	valence	ndex i	s<3.0) ¹				_
							c	96	=	Tot	al Co	over		1					Mor	phologic	al Ada	ptatic	ons ¹ (e	xplain)			_
									1					+				-	Pro	hlematic	Hydro	nhvti	с. Veo	etation	¹ (ex	olain	,
				-			-		-					+				-	1.10		,	priyer	5 709			- and	
+							-	_	-				-	-		+		1,000	liant	no of h	dria a -	il on t		nd by d	roloa		_
0		ta	-							1							-	mu	ncal(JS UT TIY		n and	i weia	nu nya Hor	OIOG	l y	
Con	mer	115	-														-	mus	si De	present	, unies	s ais	unde	101	-		
			_															prot	Jiem	alic		_	_		-		
			_														_						_		-		
			_																	_							
															Hy	/drophy	ytic Ve	geta	<u>ition</u>	Preser	t?	1	Yes	X	No		_

Prim \$	ary Hy Surface High Wa Saturatio	arologic Water (/ ater Tabl	<u>al In</u> A1) e (A2	ndica	tors:	:(mi	nimum	ot on	e is r Wat	equire er Sta	a <u>;che</u> ined	<u>ickall</u> Leaves	(RO	apply)			-			_	-			_
۲ ا	Surface High Wa Saturati	Water (/ ater Tabl	А1) е (А2	.					Wat	er Sta	ined	leaves	· /RO	0										
F X S V S C A Ir	High Wa Saturati	ater Tabl	e (A2	N					-			Louvoo	5 (D3	,		_				_	-			
x 8 V S C A Ir	Saturati		. –	<u>()</u>					Aqu	atic Fa	auna	(B13)								_	-			
V S C A Ir		on (A3)			_				Mar	I Depo	sits (B15)					-				_			_
٤ ۲ ۹ ۱۳	/vaterm	arks							Hyd	rogen	Sulfic	de Odo	r (C1	1)						_	_	_		
۲ م الا الا	Sedimer	nt Depos	sits (E	32)					Oxi	dized F	Rhizo	sphere	es on	Living R	Roots	(C3)					_			
ے اr اr	Drift Dep	osits (B	3)						Pres	sence	of Re	duced	Iron	(C4)							_			
lr Ir	Algal Ma	at of Cru	st (B	4)					Rec	ent Iro	n red	uction	in til	led Soils	; (C6)									
Ir	ron Dep	osits (B	5)						Thir	Muck	Surf	ace (C	7)											
	nundati	on Visib	e on	Aeria	ıl Ima	age	ry (B7)		Oth	er (Exp	olain	in Rem	narks	5)										
S	Sparsely	/ Vegeta	ated (Conca	ave S	Surfa	ace (B8	5)																
<u>Seco</u>	ondary	Indicate	ors:(n	ninim	um c	of ty	vo requ	ired)																
S	Surface	Soil Cra	cks ((B6)					Stu	nted or	⁻ Stre	ssed F	Plant	s (D1)										
С	Drainage	e Patterr	ns (B	10)					Geo	morph	ic Po	sition	(D2)											
Ν	Moss Tr	im Lines	6 (B16	6)					Sha	llow A	quita	rd (D3)												
Г	Dry-Sea	son Wa	ter Ta	able (C2)				Mic	rotopo	graph	ic Reli	ef (D	94)										
C	Crayfish	Burrows	s (C8)					FAC	C-Neuti	ral Te	st (D5)											
ę	Saturati	on Visib	e on	Aeria	ıl Ima	aqe	ry (C9)		1															
Field	Observ	ations:				Ū	ÍÍÍ																	
Surfa	ice Wat	er Prese	ent?	ŀ	Yes		No x	Der	oth															
Wate	r Table	Present	?	ŀ	Yes		No x	Der	oth					Wetland	d Hvd	rology	/ Pre	sent	,	Yes	5	x	No	
Satur	ration P	resent?	1		Yes	x	No	Der	oth	0cm					,									
- O alta													_								-			
Soil I Profi	Profile	ription	:(Des	cribe	to th	he c	lepth ne	eeded	to d	ocume	ent the	e indica	ator	or confirm	n the	absen	ce of	f indic	ators)	_	-			-
Depth	h(cm)	Mat	trix							ooumo	Red	ox Fea	tures	3										
		Color(m	oist)		-	%		Col	or(m	oist)		%		Type ¹		$0c^2$			Т	exture			Rem	arks
0 to 5	5cm		,																Organ	ic				
5 to 2	20	10YR 3	/2		6	65		10)	′R 4/	5		35							J					
										-														
-																								
																	-							
																	-							
¹ Type	•·C=Co	ncentrati	ion D	=Der	letio	n R	M=Red	luced	Matr	ix CS=	Cove	ered or	Coat	ted Sand	l Grai	ns 21 o	catio	n·PI =	Pore	Lininc	1 M=	Matri	ix	
						,.				.,											,,			
Hvdr	ic Soil	Indicat	are.																	_				
- iyan	-listosol	(Δ1)							San	dy Ro	dov (95)												
'	listic E		(42)					_	Stri	aned M	Aotriv	(56)	-				-				-	-		-
!		pipeuon	(<u>7</u> 2)					-	Dor			(00)					-				-			-
)	、 、					Dah		Dele	(37)		<u></u>							-			-
	Hydroge	n Suma	e (A4)				_	POI	value	Belo/			58)			-							
2	Stratified	Layers	(A5)					_	i nir	Dark	Suna	ice (Se	り (FO)				-				-			_
L		Below	Dark	Suna	ace (A1'	1)	_	Loa	my Gie	eyed	Matrix	(F2))		_	-		_	_	-	-		_
T	Thick Da	ark Surfa	ice (A	A12)	_			x	Dep	leted I	Matrix	(F3)					-				-			_
S	Sandy N	lucky M	inera	l (S1))				Red	ox Da	rk Su	rface (F6)							_	-	_		
5	5cm Mu	cky Pea	it or F	Peat (S3)				Dep	leted [Dark 3	Surface	e (F7	7)			-				_			_
S	Sandy C	Bleyed N	latrix	(S4)					Red	ox De	press	ions (F	-8)								_			
Restr	rictive L	ayer Typ	e (if	obser	ved			_	Dep	th:		_			ŀ	lydric	Soil	Pres	ent?	Yes	5	х	No	
Comr	ments:																							

Appendix D: Photos













Silk Stevens Design and Consulting Engineers	Datapoint 6	Grand Manan	Overdale Environmental Inc.