BROOKS WILLIAMSON

AND ASSOCIATES, INC.

ENVIRONMENTAL/WETLAND
CONSULTING

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March 25, 2023

Ms. Tamra Haurani 7598 Southview Ct. Columbus, OH 43235

-Via Email-

RE: Wetland Delineation – Lot 65, Sunset Cove Subdivision, Parcel# 4715-31-401-021, Hamburg Township, Livingston County

Dear Ms. Haurani,

Brooks Williamson and Associates, Inc. (BWA), in cooperation with Marx Wetlands, LLC (MW), completed a wetland delineation on Lot 65 of Sunset Cove Subdivision in Hamburg Township, Livingston County. The purpose of this work was to determine the location of wetlands on the property that are subject to Part 303, Wetland Protection (Part 303), of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended. The property was also inspected for additional regulated natural resources including lakes, ponds or streams that may be subject to Part 301, Inland Lakes and Streams (Part 301), of NREPA, and/or similar natural resource ordinances of the Charter Township of Hamburg.

Wetland Definition and Methodology

Under Part 303, "wetland" means a land or water feature, commonly referred to as a bog, swamp, or marsh, inundated or saturated by water at a frequency and duration sufficient to support, and that under normal circumstances does support, hydric soils and a predominance of wetland vegetation or aquatic life. A land or water feature is not a wetland unless it meets any of the following:

- (i) Is a water of the United States as that term is used in section 502(7) of the federal water pollution control act, 33 USC 1362.
- (ii) Is contiguous to the Great Lakes, Lake St. Clair, an inland lake or pond, or a stream. As used in this subparagraph, "pond" does not include a farm or stock pond constructed consistent with the exemption under section 30305(2)(g).
- (iii) Is more than 5 acres in size.
- (iv) Has the documented presence of an endangered or threatened species under Part 365 of

the endangered species act of 1973, Public Law 93-205.

(v) Is a rare and imperiled wetland.

On March 22, 2023, wetlands were identified and delineated pursuant to statutory language and rules of Part 303 of NREPA. As required in Part 303, specific methodology was followed as set forth in the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual including the Midwest Regional Supplement. The wetlands were identified where 1) there was a predominance of wetland-rated vegetation, 2) the presence of hydric soils, and 3) indicators of hydrology. The approximate boundaries of the delineated wetlands were sketched on an aerial photograph while in the field. Sample points were established within the wetland to record observed evidence of wetland vegetation, hydric soils, and hydrology.

Wetland Delineation

A single wetland area (flags A10-A30) was identified within the review area. The approximate boundary lines for the wetland are depicted on the map shown in Figure 1. The plant species recorded within the wetland are listed in the tables below.

WETLAND A - WETLAND PLANT SPECIES

SCIENTIFIC NAME	COMMON NAME	WETLAND RATING
Acer saccharinum	Silver maple	FACW
Ulmus americana	American elm	FACW
Lindera benzoin	Spicebush	FACW
Hamamelis virginiana	Witch hazel	FACU
Fraxinus pennsylvanica	green ash	FACW
Symplocarpus foetidus	Skunk cabbage	OBL
Carex intumescens	Bladder sedge	FACW
Onoclea sensibilis	Sensitive fern	FACW
Phalaris arundinacea	Reed canary grass	FACW
Vitis riparia	riverbank grape	FACW

WETLAND A - UPLAND PLANT SPECIES

SCIENTIFIC NAME	COMMON NAME	WETLAND RATING
Acer rubrum	Red maple	FAC
Tilia americana	basswood	FACU
Morus alba	White mulberry	FAC
Poa compressa	Canadian blue grass	FACU
Poa pratensis	Kentucky blue grass	FAC
Verbascum thapsus	Wooly mullein	UPL
Symphyotrichum pilosum	White oldfield aster	FACU
Parthenocissus quiquefolia	Virginia creeper	FACU

Wetland A (flags A1-A17) is a seasonally flooded palustrine forested and scrub-shrub complex that is the eastern end of a large, forested wetland complex found to the west. The dominate wetland plant species observed within the Wetland A included: silver maple (*Acer saccharinum*), American elm (*Ulmus americana*), green ash (*Fraxinus pennsylcanica*), northern spicebush (*Lindera benzoin*), and skunk cabbage (*Symplocarpus foetidus*). Hydric soil indicators observed included low chromas and Loamy Mucky Mineral (F1). The primary wetland hydrology indicators observed within Wetland A were Water Marks (B1), Sparsely Vegetated Concave Surface (B8), and Water-Stained Leaves (B9). The secondary wetland hydrology indicators are Saturation visible on Aerial Imagery (C9), Geomorphic Position (D2), and FAC-Neutral Test (D5). The wetland data sheets for the Wetland A are in Appendix A.

The remainder of the property is classified as upland and is labeled as "upland" in Figure 1. The upland within the property is found along the north property and the eastern 45% of the parcel. The dominate vegetation observed within the upland included: Red maple (*Acer rubrum*), American basswood (*Tilia americana*), White mulberry (Morus alba), Canada blue grass (*Poa compressa*), and Kentucky blue grass (*Poa pretensis*). No hydric soil indicators were observed within the soil sample pit. There were no primary or secondary indicators of hydrology identified within the upland sample point. The wetland data sheets for upland are in Appendix B.

Lake and Stream Regulation by the State of Michigan

Under Part 301 an inland lake or stream means either of the following:

- (i) An artificial or natural lake, pond, or impoundment that is a water of the United States as that term is used in section 502(7) of the federal water pollution control act, 33 USC 1362.
- (ii) A natural or artificial lake, pond, or impoundment; a river, stream, or creek which may or may not be serving as a drain as defined by the drain code of 1956, 1956 PA 40, MCL 280.1 to 280.630; or any other body of water that has definite banks, a bed, and visible evidence of a continued flow or continued occurrence of water, including the St. Mary's, St. Clair, and Detroit Rivers.

The March 22, 2023, site inspection revealed there are no streams or lakes within the limits of the property. The wetland on-site is within 500 feet of Baseline Lake to the south. Baseline Lake meets the definition of a lake under Part 301 and the wetland is within 500-feet, so the wetland is regulated by EGLE.

Wetland Regulation by the State of Michigan

In Michigan, wetlands are regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) under Part 303 if the wetland fits the criteria listed in the wetland definition and methodology section of this report.

Based on our field investigation and review, Wetland A is **regulated** by EGLE because it is part of a larger wetland complex greater than 5 acres extending to the west of the site. Therefore, Wetland A is "contiguous" as defined under Part 303.

Regulation by Hamburg Township, Livingston County

Research revealed that Hamburg Township does not have a formal wetland ordinance nor is an ordinance listed on the EGLE local wetland ordinance website. The Township does have a wetland determination process that is part of the site plan approval. The process appears to parallel and rely on the State/EGLE permit process and requires the applicant to provide a copy of the EGLE application for the site plan review.

The Hamburg Township Zoning Ordinance also requires a Natural Features Setback (NFS) of fifty (50) feet. Any work/activity proposed within the NFS requires a permit/authorization prior to the activity being undertaken.

Confirmation by Regulatory Agencies

Numerous natural environmental factors and human induced changes may cause changes in the

extent of wetland on a parcel over a period of time. The aquatic natural resources identified on the subject property represent what we believe EGLE and the Township would consider to be wetland given the condition of the site at the time of inspection and recent regulatory policies and attitudes.

In BWA's and MW's opinion, any regulated activities conducted within Wetland A will require a permit from EGLE and the Township. Note that EGLE and the Township have the final determination of the presence of wetlands and surface waters and their respective jurisdictional status. If questions arise, a jurisdictional confirmation should be requested.

We hope this provides better insight into the wetland conditions associated with your property. If you have any questions or concerns, please feel free to call our office.

Sincerely,

Brooks Williamson

Brooks Williamson and Associates, Inc.

Williamson

(248) 624-9100 (248) 420-3280 cell

Enclosures

(23-025)

APPENDIX A – Wetland Data Sheets for Wetland A

WETLAND DETERMINATION DATA FORM - Midwest Region

	and Assoc	adies .		State: Michigan	Samor	ina Poir	nt: V	VSP.A
pplicant/Owner: Brooks Williamson nvestigator(s): B.Guevara; Marx Wetlands LLC			ship, Range:					
andform (hillislope, terrace, etc): Depression			oncave, conve				01	
lope(%): 0-1 Lat: 42.43053087							atum: W	/GS 198
oil Map Unit Name: Gliford sandy loam, 0 to 2 pe	rcent slope	es, gravelly su	bsoll (Gd)	NWI classificatio	n:		PFO	
re climatic / hydrologic conditions on the site typical for this time	of year?	Yes X	No	(If no, explain in Remarks	5.)			
re Vegetation, Soil, or Hydrologys	ignificantly	disturbed?	Are "	Normal Circumstances" prese	nt?	Yes	X	No
re Vegetation, Soil, or Hydrologyn	aturally pro	blematic?	(If ne	eded, explain any answers in	Remark	(s.)	- 39	100
UMMARY OF FINDINGS - Attach site map showi							C.	
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Wetland Hydrology Present? Yes X No		Wil	unin a vveuani	d? Yes X	- 100	_	- 33	
Remarks: Wetland A								
/EGETATION - Use scientific names of plants.								
				Dominance Test worksh				
	Absolute	Dominant	Indicator	Number of Dominant Spec	cles			
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	That Are OBL, FACW, or I	AC:	82	5	(A)
Acer saccharinum / Sliver maple	35	Yes	FACW	001000000000000000000000000000000000000				
Ulmus americana / American elm	15	Yes	FACW	Total Number of Dominant	1			
3. Fraxinus pennsylvanica / Green ash	10	No	FACW	Species Across Ali Strata:			5	(B)
4.	9) 2690			27				
5.				Percent of Dominant Spec	des			
533.0	60	- Total Cov	er	That Are OBL, FACW, or F	FAC:	88-	100.0	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	SCHOOL STATE	0000						
Lindera benzoin / Northern spicebush	30	Yes	FACW	Prevalence Index works				
Hamamelis virginiana / American witch-hazel	5	No	FACU	Total % Cover of:			ultiply by:	
3.		10	93 - S	OBL spedes 55		x1-	55	
4.				FACW species 160	_	x2	320	
5.		14		FAC species 0		x3-	0	
	35	- Total Cov	er	FACU species 5	_	x4-	20	_39
Herb Stratum (Plot size: 5' radius)	177	200		UPL species 0	100	x5	0	7900.20
Symplocarpus foetidus / Sikunik-cabbage	55	Yes	OBL	Column Totals: 220	- 2	(A)	395	(B
Carex Intumescens / Greater bladder sedge	20	No	FACW	2017/05/09/05/09/05	20.690.5		10023	
Onoclea sensibilis / Sensitive fern	20	No	FACW	Prevalence Index =	B/A ■	<u> </u>	1.8	
4. Phalaris arundinacea / Reed canarygrass, Reed canary gras	10	No	FACW	Hydrophytic Vegetation	Indicat	oro.		
5.				X 1 - Rapid Test for Hyd			tation	
6.		33		X 2 - Dominance Test k			Lation	
7.				X 3 - Prevalence Index				
8.				4 - Morphological Ada		st /Pm	vide sunn	ortina
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	includes capillary	fringe)	STATE OF STATE		S-510170-0		10000000		Sand Sand research	1,000,00
Remarks:	Describe Recorde	ed Data (stream ga	auge, monitoring	well, aertal photos	s, previous in:	spections),	f avallabl	e:		
Remarks:			manufacture and the							
	Remarks:									

US Army Corps of Engineers

<u>APPENDIX B – Data Sheets for Upland</u>

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Baseline Lik- Baseview Bivd/Mapie (Parcel 4715-3			Trainburg 101					22/2023
Applicant/Owner: Brooks Williams			vnship, Range:	State: Michig			-	ISP.A
vestigator(s): B.Guevara; Marx Wetlands LLC		300000000000000000000000000000000000000				convex		
andform (hillslope, terrace, etc): hillside			concave, convex				tum: W	00 400
lope(%): 5-8 Lat: 42.4303118 oil Map Unit Name: Gliford sandy loam, 0 to 2		Long	entranti (Od)				0.50193 (GS 190
				NWI class			None	
re climatic / hydrologic conditions on the site typical for this tin	ne or year?	res A	NO.	(ii no, explain in Ri	emarks.)			
re Vegetation, Soil, or Hydrology	significantly	disturbed?	Ale N	ormal Circumstances*		300000	Α	NO
re Vegetation, Soil, or Hydrology	_naturally pro	ooiemanc:	(it nee	ded, explain any answ				
UMMARY OF FINDINGS - Attach site map sho			it locations,	transects, impor	ant feati	ures, etc	-02	
Hydrophytic Vegetation Present? Yes		9						
Hydric Soll Present? Yes		- Is	s the Sampled A					
Wetland Hydrology Present? Yes	No X	W	vithin a Wetland	7 Yes _		No X	<u></u>	
Remarks:								
/EGETATION - Use scientific names of plants.								
				Dominance Test w	orksheet:			
	Absolute	Dominant	Indicator	Number of Dominar				
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	That Are OBL, FAC	W, or FAC:	-	3	(A)
Acer rubrum / Red maple	10	Yes	FAC	(29				
2. Tilla americana / American basswood	10	Yes	FACU	Total Number of Do	minant			
3.	- 02 HTM			Species Across All :	Strata:	-3	6	(B)
4.				TO CONTROL OF THE STATE OF THE				
5.	- 0	8	- B	Percent of Dominan	t Species			
	20	- Total Co	wer	That Are OBL, FAC	W, or FAC:		50.0	(A/B)
Sapling/Shrub Stratum (Plot size:15' radius)	(85 - 55500)	AS SAMED	Brest.	Prevalence Index v	uneten benefi	27		25000 3
Morus alba / Mulberry, White mulberry	20	Yes	FAC				Market Bear	
2.	101 52000	<u> </u>	0 888 8	Total % Cover	111		tiply by:	- 15
3.				OBL spedes	0	x1	0	
4.	- 101	<u> </u>	<u> </u>	FACW species	0	x2	0	- 18
5				FAC species	65	x3	195	
	20	- Total Co	wer	FACU species	70	x4	280	18
Herb Stratum (Plot size: 5' radius)			Particular Vision	UPL species	20	x5	100	
1. Poa compressa / Canada blue grass, Canadian blue gras	s 35	Yes	FACU	Column Totals:	155	(A)	575	(B
Poa pratens/s / Kentucky blue grass	35	Yes	FAC				774	
3. Verbascum thapsus / Woolly mulleln	20	No	UPL	Prevalence In	dex = 6/A =	•	3./1	- 5%
4. Symphyotrichum pilosum / White oldfield american-aster	15	No	FACU	Hydrophytic Veget	afton Indic	ators:		
5.	- 10	15	3	1 - Rapid Test			ation	
6.				2 - Dominance		0	audit	
7.		18	31 31	3 - Prevalence				
8.				4 - Morphologic			ide sunne	ortino
9.	- 83	M.		Problematic Hy	30 to 60 /500 -			0.00
10.				FIGUREIIIAUG (1)	a opilyuo v	-geadon	(Capital)	1
22	105	- Total Co	over	'Indicators of hydric	call and w	diand buch	nings m	et
Woody Vine Stratum (Plot size: 30' radius)	St	- ACMONONO	17545	be present, unless of		THE PERSON NAMED IN		iol.
Parthenocissus quinquefoila / Virginia creeper	10	Yes	FACU	De present, uniess o	noturbed of	proviernal	and.	
2.	37 200	0 2000		Hydrophytic				
	10	- Total Co	wer	Vegetation				
		- STATE - ST	5000	0.3 570 (550) (540) (550)			1000	
				Present?	Yes	NO	×	

US Army Corps of Engineers Midwest Region - Version 2.0

IL							Sar	mpling Point _	USP.A
rofile Description: (Describe	to the depth nee	ded to document to	he Indicator o	r confirm	the abse	nce of Indicators	.)		
Depth Matri	AND THE OWNER OF THE PARTY OF T		x Features						
(Inches) Color (moist)	%	Color (moist)	%	Type'	Loca	Texture		Remarks	
0-12 10YR 4/3	100		<u> </u>			Crse Sndy Lm			
		Ž		_	-	-	9		
1000			-33			199			
	1000	3							
Type: C=Concentration, D=De	pletion, RM=Redu	oed Matrix, MS=Mas	iked Sand Gra	ins.		*Locat	on: PL=Pore	Lining, M-Mat	nx.
ydric Soll Indicators:								atic Hydric So	ll83:
Histosol (A1)		(1)	yed Matrix (S4	1)		1000	ast Prairie Re	PR 80 86	
Histic Epipedon (A2)		Sandy Rec				200 march 200 ma	rk Surface (S		
Black Histic (A3)		Stripped M	Natrix (S6)			Iron	n-Manganese	Masses (F12)	
Hydrogen Sulfide (A4)		Loamy Mu	icky Mineral (F	1)		Ver	y Shallow Da	rk Surface (TF	12)
Stratified Layers (A5)		Loamy Gle	eyed Matrix (F2	2)		Oth	er (Explain in	Remarks)	
2 cm Muck (A10)		Depleted N	Matrix (F3)			23-32			
Depleted Below Dark Surf.	ace (A11)	Redox Dar	rk Surface (F6)					
Thick Dark Surface (A12)		Depleted D	Dark Surface (I	F7)		Indicato	rs of hydropi	nytic vegetation	and
Sandy Mucky Mineral (S1)	,		pressions (F8)	5.65				must be prese	
5 cm Mucky Peat or Peat		8 8	8				THE STATE OF THE	or problemation	
estrictive Layer (if observed	n:				-				
Type:									
Type: Depth (Inches): Remarks:		2.7			Ü	Hydric Soil Pri	esent?	Yes	No X
Depth (Inches):						Hydric Soil Pr	esent?	Yes	No X
Depth (Inches):temarks:						Hydric Soll Pro	esent?	Yes	No X
Depth (Inches): temarks: DROLOGY Vetland Hydrology Indicators						100000000000000000000000000000000000000			
Depth (Inches): DROLOGY Vetland Hydrology Indicators (minimum of						Seconda	ary Indicators	(minimum of b	
Depth (Inches): DROLOGY Vetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1)		Water-Stal	ined Leaves (E	39)		Seconda Sur	ary Indicators	(minimum of b	
Depth (Inches): DROLOGY /estand Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2)		Water-Stal Aquatic Fa	auna (B13)			Second:	ary Indicators face Soil Cra sinage Patter	(minimum of b oks (86) ns (810)	
Depth (Inches): DROLOGY Vetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stal Aquatic Fa True Aqua	auna (B13) itic Plants (B14	1)		Second: Sur	ary Indicators face Soli Cra ilnage Patten -Season Wa	(minimum of b cks (B6) ns (B10) er Table (C2)	
Depth (Inches): DROLOGY /etland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-Stal Aquatic Fa True Aqua Hydrogen	auna (B13) itic Plants (B14 Sulfide Odor (1) C1)		Second: Sur Dra Dry Cra	ary Indicators face Soli Cra ilnage Patter -Season Wa nyfish Burrow	(minimum of b ciks (B6) ns (B10) ter Table (C2) s (C8)	wo required
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DROLOGY /estand Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F	auna (B13) itic Plants (B14 Sulfide Odor (4) C1) along Livin	ng Roots ((Second:	ary Indicators face Soli Cra ilnage Patter -Season Wa nyfish Burrow uration Visibi	(minimum of b ciks (B6) ns (B10) ter Table (C2) s (C8)	wo required
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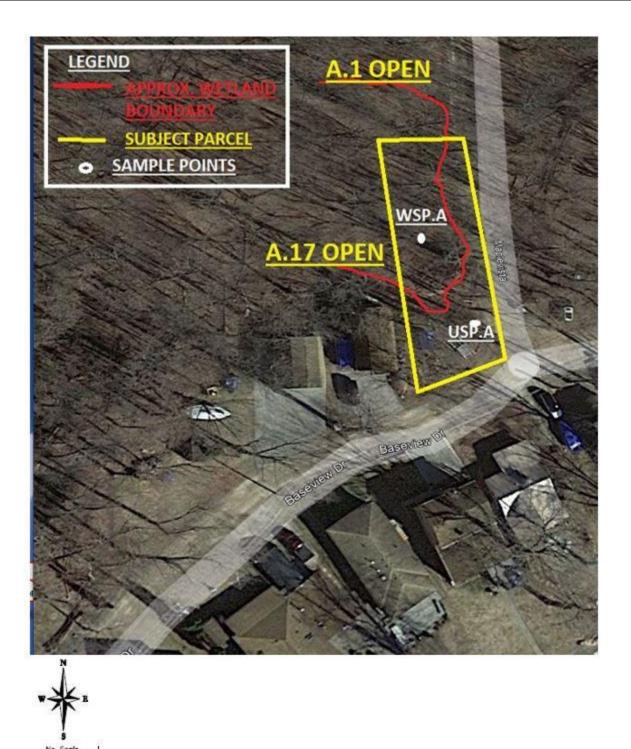


FIGURE 1 - WETLAND MAP

(23-025)