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10448 Citation Drive, Suite 100 Brighton, MI 48116

800 395-ASTI Fax: 810.225.3800

www.asti-env.com

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October 29, 2025

Erin McMachen **Stonefield Engineering** 555 S. Old Woodward Suite 12L Birmingham, MI 48009

RE: Wetland Delineation and Jurisdictional Assessment with GPS Survey

5010 West Vienna Road, Clio (Parcel IDs 18-17-400-035 & -038)

Vienna Township, Genesee County, Michigan

ASTI File No. A25-1782.00

Erin McMachen:

On October 23, 2025, ASTI Environmental (ASTI) conducted a site investigation to delineate wetland boundaries within the above-referenced property in Vienna Township, Genesee County, Michigan (Subject Property). One watercourse and one wetland likely regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) were found within the Subject Property (Figure 1 – *GPS-Surveyed Wetland Boundaries*). Wetland boundaries, as depicted on Figure 1, were located using a professional grade, hand-held Global Positioning System unit (GPS).

SUPPORTING DATA AND MAPPING

The USDA Web Soil Survey (WSS), the National Wetland Inventory Map (NWI), EGLE Wetlands Map Viewer web site, and digital aerial photographs were all used to support the wetland delineation and subsequent regulatory status determination. The EGLE maps indicated the presence of wetland within the western portion of the Subject Property.

In addition, the WSS indicated the Subject Property is composed of the soils Cohoctah silt loam, Kibbie fine sandy loam (0-2% slopes), and Pinconning-Allendale loamy fine sands (0-2% slopes). The soil complexes of Cohoctah silt loam and Pinconning-Allendale loamy fine sands are listed as hydric by the WSS.



FINDINGS

ASTI investigated the Subject Property for the presence of any lakes, ponds, wetlands, and watercourses. This work is based on *MCL 324 Part 301 (Inland Lakes and Streams)* and *Part 303 (Wetland Protection)*. In some circumstances the US Army Corps of Engineers (USACE) may also have jurisdiction of wetlands or watercourses; this is not the case with your site.

The delineation protocol used by ASTI for this delineation is based on the US Army Corps of Engineers' *Wetland Delineation Manual*, 1987, the *Regional Supplement to the Corps of Engineer Wetland Delineation Manual Northcentral and Northeast Region*, and related guidance/documents, as appropriate. Wetland vegetation, hydrology, and soils were used to locate the wetland boundaries.

One watercourse and one wetland were found within the Subject Property, as discussed below.

Watercourses

Parker Creek occurs in the western portion of the Subject Property. ASTI identified the ordinary high-water marks (OHWM) at a number of locations along the channel (Figure 1). It is ASTI's opinion that the creek is regulated by EGLE as a stream under Part 301, Inland Lakes and Streams given that it has defined bed, banks, and evidence of flow. It should be noted that, although on-site portions of the creek are not identified as a country drain by the online Genesee County drain maps, Parker Creek is identified as a country drain directly south of the Subject Property and any work within the watercourse or potential associated drain easements may require a permit from Genesee County. Please also note that there may be an EGLE-regulated and/or 100-year FEMA floodplain associated with the watercourse on site.

Wetland A

Wetland A is a forested and scrub/shrub wetland located in the western portion of the Subject Property (Figure 1). Wetland A is 0.28 acre on-site and continues off-site to the west. Dominant vegetation found within Wetland A included silver maple (*Acer saccharinum*), American elm (*Ulmus americana*), green ash (*Fraxinus pennsylvanica*), late goldenrod (*Solidago gigantea*), woodland sedge (*Carex blanda*), and rue-anemone (*Thalictrum thalictroides*). Soils within Wetland A were sandy and loamy and are considered hydric because criteria for depleted matrix were met. Indicators of wetland hydrology observed within Wetland A included water-stained leaves, geomorphic position, and FAC-neutral test.

Dominant vegetation observed within the upland adjacent to Wetland A included silver maple, American elm, shagbark hickory (*Carya ovata*), basswood (*Tilia*



americana), black cherry (*Prunus serotina*), black raspberry (*Rubus occidentalis*), green ash, wild ginger (*Asarum canadense*), Japanese rose (*Rosa multiflora*), late goldenrod, and tall goldenrod (*Solidago altissima*). Upland soils were sandy and loamy, and no evidence of wetland hydrology was observed.

It is ASTI's opinion that Wetland A is regulated by EGLE because it is directly connected to Parker Creek, a Part 301 EGLE-regulated watercourse.

Wetland and Stream Flagging

Wetland and watercourse boundaries were marked in the field with day-glow pink and black striped flagging with the following flagging numbers:

Wetland A and Parker Creek: A-1 through A-46 (includes OHWMs)

AA-1 through AA-14 (includes OHWMs)

A2-1 through A2-9

SUMMARY

Based upon the data, criteria, and evidence noted above, it is ASTI's professional opinion that the Subject Property includes one watercourse (Parker Creek) and one wetland (Wetland A) likely regulated by EGLE under the Natural Resources and Environmental Protection Act (1994 P.A. 451), Part 301 Inland Lakes and Streams and Part 303 Wetland Protection, respectively. However, please note that EGLE has the final authority on the extent of regulated wetlands, lakes, and streams in the State of Michigan. Any proposed impact to the areas that ASTI has identified as regulated will require a permit from EGLE prior to any wetland impacts.

Attached are Figure 1, which shows the GPS-surveyed locations of wetland flagging on the Subject Property and completed US Army Corps of Engineers (USACE) Wetland Data Forms. Please note that the data sheet numbers match the data collection sampling points shown on Figure 1.



Thank you for the opportunity to assist you with this project. Please let us know if we can be of any further assistance in moving your project forward. Sincerely yours,

ASTI ENVIRONMENTAL

Shane Jennings Project Manager

Wetland Professional in Training

Dianne C. Martin

Director of Ecological Services Professional Wetland Scientist #1313

Attachments: Figure 1 – *GPS-Surveyed Wetland Boundaries*Completed USACE Wetland Data Forms



WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: 5010 West Vienna Road, Clio	C	City/County: Vienna	Гwp, St. Clair Co.	Sampling Date: 10/23/2025
Applicant/Owner: Stonefield Engineering			State: MI	Sampling Point: UP1
Investigator(s): ASTI - S. Jennings & E. Delie		Section, Tow	nship, Range: Sec. 17,	
Landform (hillside, terrace, etc.): Slope	Local rel		k, none): Convex	Slope %: 1-2
Subregion (LRR or MLRA): LRR L	Lat: 43.177829	•	-83.77574	Datum: NAD 83
Soil Map Unit Name: Cohoctah silt loam	_		NWI classification:	
Are climatic / hydrologic conditions on the site typi	ical for this time of year?	Yes X		explain in Remarks.)
, ,	•	-		
Are Vegetation, Soil, or Hydrology			al Circumstances" prese	
Are Vegetation, Soil, or Hydrology			, explain any answers in	,
SUMMARY OF FINDINGS – Attach site	e map showing samp	oling point locat	ions, transects, im	nportant features, etc.
Hydrophytic Vegetation Present? Yes	s No_X_	Is the Sampled Are	ea	
Hydric Soil Present? Yes	s X No	within a Wetland?		No X
Wetland Hydrology Present? Yes	S NoX	If yes, optional Wet	land Site ID:	
Remarks: (Explain alternative procedures here c				
Upland adjacent to Wetland A and Parker Creek.	. Located in the southwester	rn portion of the prop	erty.	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil Cracks	
Surface Water (A1)	Water-Stained Leaves (B9		Drainage Patterns (
High Water Table (A2)	Aquatic Fauna (B13)	,	Moss Trim Lines (B	
Saturation (A3)	Marl Deposits (B15)	•	Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C	1)	Crayfish Burrows (C	
Sediment Deposits (B2)	Oxidized Rhizospheres on	<i>'</i>		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	n (C4)	Stunted or Stressed	l Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positio	n (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	93)
Inundation Visible on Aerial Imagery (B7)	_Other (Explain in Remarks	s) .	Microtopographic R	elief (D4)
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present? Yes No				
Water Table Present? Yes No	Depth (inches):			
	Depth (inches):	Wetland	d Hydrology Present?	Yes No _X_
(includes capillary fringe)			7. 1.1	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, prev	lous inspections), if a	available:	
Remarks:				
T. G. Maille				

VEGETATION – Use scientific names of plants. Sampling Point:

T 0: (D) (D) (D)	Absolute	Dominant	Indicator	<u> </u>				
Tree Stratum (Plot size: 30ft)	% Cover	Species?	Status	Dominance Test worksheet:				
1. Ulmus americana	15	Yes	FACW	Number of Dominant Species				
2. Acer saccharinum	10	Yes	FACW	That Are OBL, FACW, or FAC:3 (A)				
3. Carya ovata	10	Yes	FACU	Total Number of Dominant				
4. Tilia americana	10	Yes	FACU	Species Across All Strata: 8 (B)				
5				Percent of Dominant Species				
6.	-			That Are OBL, FACW, or FAC: 37.5% (A/B)				
7				Prevalence Index worksheet:				
	45	=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15ft)	25	Vaa	LIDI	OBL species 0 x 1 = 0				
Rubus occidentalis	25	Yes	UPL	FACW species 45 x 2 = 90				
2. Fraxinus pennsylvanica	10	Yes	FACW	FAC species 0 x 3 = 0				
3. Sambucus canadensis	5	No	FACW	FACU species 45 x 4 = 180				
4				UPL species55 x 5 =275				
5				Column Totals: 145 (A) 545 (B)				
6.				Prevalence Index = B/A = 3.76				
7				Hydrophytic Vegetation Indicators:				
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5ft)				2 - Dominance Test is >50%				
1. Asarum canadense	30	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹				
2. Solidago altissima	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting				
3. Impatiens capensis	5	No	FACW	data in Remarks or on a separate sheet)				
4. Thalictrum thalictroides	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)				
5				¹ Indicators of hydric soil and wetland hydrology must				
6.				be present, unless disturbed or problematic.				
7.				Definitions of Vegetation Strata:				
8				Tree – Woody plants 3 in. (7.6 cm) or more in				
9.				diameter at breast height (DBH), regardless of height.				
10.				Sapling/shrub – Woody plants less than 3 in. DBH				
11.				and greater than or equal to 3.28 ft (1 m) tall.				
12.				Herb – All herbaceous (non-woody) plants, regardless				
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Woody Vine Stratum (Plot size: 30ft)				Mandaying Allowed with a greater than 2 20 ft in				
1. None				Woody vines – All woody vines greater than 3.28 ft in height.				
2.								
3.				Hydrophytic				
4.				Vegetation Present? Yes No X				
		=Total Cover						
Remarks: (Include photo numbers here or on a separ	rate sheet)	10101 00101						
Tremains. (include prioto numbers here or on a separ	ate sileet.)							

UP1

	ription: (Describe t	o the dep				tor or co	onfirm the absence o	f indicators.)
Depth	Matrix	0/		K Featur		. 2	- .	5 .
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 4/2	98	10YR 4/6	2	С	M	Loamy/Clayey	Prominent redox concentrations
								-
			_					
							·	-
								_
¹ Type: C=Co	ncentration, D=Deple	etion. RM=	Reduced Matrix. M	IS=Mas	ked Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		, , , , , , , , , , , , , , , , , , ,						or Problematic Hydric Soils ³ :
Histosol (Dark Surface (S7)				ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	_	Polyvalue Belo	-	ce (S8) (I	LRR R,		rairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)	-	MLRA 149B)			5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)	_	Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)	_	High Chroma S	Sands (S	611) (LRF	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11) _	Loamy Mucky I	Mineral	(F1) (LRI	R K, L)	Iron-Man	iganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)	_	Loamy Gleyed	Matrix (F2)		Piedmon	t Floodplain Soils (F19) (MLRA 149B)
	odic (A17)	_	X Depleted Matrix					ent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)	_	Redox Dark Su	•	,			allow Dark Surface (F22)
	ucky Mineral (S1)	-	Depleted Dark				Other (E	xplain in Remarks)
	eyed Matrix (S4)	-	Redox Depress	-	8)		31	un af hardun uhadin aran akakina arad
Sandy Re		-	Marl (F10) (LR		'24\ /MI F	24.45		rs of hydrophytic vegetation and
Surpped	Matrix (S6)	-	Red Parent Ma	iteriai (F	21) (IVILF	KA 145)		d hydrology must be present, disturbed or problematic.
Restrictive I	ayer (if observed):						uniess	disturbed of problematic.
Type:	ayer (ii observed).							
Depth (in	ohoo):						Hydric Soil Preser	y Von V No
							Hydric 3011 Freser	nt? Yes X No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: 5010 West Vienna Road, Clio	City/County: Vienna Twp, St. Clair Co. Sampling Date: 10/23/2025				
Applicant/Owner: Stonefield Engineering	State: MI Sampling Point: UP2				
Investigator(s): ASTI - S. Jennings & E. Delie	Section, Township, Range: Sec. 17, T09N, R06E				
	relief (concave, convex, none): Slope Slope %: 1-2				
Subregion (LRR or MLRA): LRR L Lat: 43.178696	Long: -83.776084 Datum: NAD 83				
Soil Map Unit Name: Cohoctah silt loam	NWI classification: PFO				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation , Soil , or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam					
Lludraphutic Voquatation Drocont? Vec No. Y	Is the Sampled Area				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No X No X	within a Wetland? Yes No_X_				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
Upland adjacent to Wetland A and Parker Creek in the northwestern portion	on of the property.				
opiana asjassinas ir siisinas i siisinas siisina siisinas siisina siisin siisina siisina siisin siisin siisin siisin siisin siisin siisin siisin siisi	in or the property.				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (I	· · · · · · · · · · · · · · · · · · ·				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of					
Drift Deposits (B3) Presence of Reduced Inc.					
Algal Mat or Crust (B4)Recent Iron Reduction in					
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):					
(includes capillary fringe)	Wettaliu nyulology Fleschi: 165 No A				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre					
Describe Notoridad Data (Stroam gaugo, monitoring won, dona. photos, pro	svious inspections, ii available.				
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: UP2

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Tilia americana	35	Yes	FACU	
2. Acer rubrum	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3. Prunus serotina	15	Yes	FACU	
4.				Total Number of Dominant Species Across All Strata: 9 (B)
5.				``
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15ft)				OBL species 0 x 1 = 0
1. Prunus serotina	20	Yes	FACU	FACW species 30 x 2 = 60
2. Fraxinus pennsylvanica	15	Yes	FACW	FAC species 25 x 3 = 75
3. Carya ovata	10	Yes	FACU	FACU species 100 x 4 = 400
4.				UPL species 0 x 5 = 0
5.				Column Totals: 155 (A) 535 (B)
6.				Prevalence Index = B/A = 3.45
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5ft)				2 - Dominance Test is >50%
1. Solidago gigantea	15	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Solidago altissima	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Rosa multiflora	10	Yes	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30ft)				Woody vines – All woody vines greater than 3.28 ft in
1. None				height.
2.				
3.				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe to	o the dep	th needed to doci	ument th	he indica	ator or co	confirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	es		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-13	10YR 3/2	100					Loamy/Clayey clayey loam
13-18	10YR 3/1	80	10YR 6/4	20	С	М	Loamy/Clayey Distinct redox concentrations
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.	
Hydric Soil I			Davida Ossefa a a /	(0.7)			Indicators for Problematic Hydric Soils ³ :
Histosol (,	•	Dark Surface ((CO) (2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His	ipedon (A2)		Polyvalue Belo MLRA 149B		ce (58) (LKK K,	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa	•	(I RR R	MIRA	
	Layers (A5)		High Chroma S		-		Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky				Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	(/ ())	Loamy Gleyed			(Piedmont Floodplain Soils (F19) (MLRA 149B)
	odic (A17)	•	Depleted Matrix		,		Red Parent Material (F21) (outside MLRA 145
	A 144A, 145, 149B)	•	Redox Dark Su		6)		Very Shallow Dark Surface (F22)
	ucky Mineral (S1)	•	Depleted Dark	Surface	(F7)		Other (Explain in Remarks)
Sandy Gl	eyed Matrix (S4)	•	Redox Depress	sions (F	8)		_
Sandy Re	edox (S5)		Marl (F10) (LR	R K, L)			³ Indicators of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) (MLF	RA 145)	wetland hydrology must be present,
							unless disturbed or problematic.
	.ayer (if observed):						
Type:							
Depth (in	ches):						Hydric Soil Present? Yes No X
Remarks:							•

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: 5010 West Vienna Road, Clio	City/County: Vienna Twp, St. Clair Co. Sampling Date: 10/23/2025				
Applicant/Owner: Stonefield Engineering	State: MI Sampling Point: UP3				
Investigator(s): ASTI - S. Jennings & E. Delie	Section, Township, Range: Sec. 17, T09N, R06E				
	relief (concave, convex, none): None Slope %: 0				
Subregion (LRR or MLRA): LRR L Lat: 43.178782	Long: -83.774689 Datum: NAD 83				
Soil Map Unit Name: Pinconning-Allendale loamy fine sands	NWI classification: None				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation , Soil , or Hydrology significantly distur	· · · · · · · · · · · · · · · · ·				
Are Vegetation, Soil, or Hydrologynaturally problems					
					
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important teatures, etc.				
Hydrophytic Vegetation Present? Yes No _X_	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
Upland located in the northeastern portion of the property.					
L HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves (I	•				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Aduatic Faulia (B13) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Sediment Deposits (B2) Oxidized Rhizospheres of					
Drift Deposits (B3) — Oxidized Kilizospheres (Carlotte Control of Reduced Inc.)					
Presence of Reduced IncAlgal Mat or Crust (B4)Recent Iron Reduction in					
Iron Deposits (B5) Recent Iron Reduction if Thin Muck Surface (C7)	• / • • • • • • • • • • • • • • • • •				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	· · · · · · · · · · · · · · · · · · ·				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:	I AO-neutral Test (DD)				
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	ovious inspections) if available:				
Describe Recorded Data (Stream gauge, monitoring wen, aenai priotos, pro	evious irispections), ii available.				
Remarks:					
	, and the second se				

VEGETATION – Use scientific names of plants. Sampling Point: UP3 Absolute Dominant Indicator 30ft Tree Stratum (Plot size: % Cover Species? Status **Dominance Test worksheet:** 1. None **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 0.0% (A/B) Prevalence Index worksheet: Multiply by: Total % Cover of: =Total Cover Sapling/Shrub Stratum (Plot size: 15ft OBL species x 1 = 1. **FACW** species 0 x 2 = 0 None 2. FAC species 0 x 3 = 0 3. FACU species a۸ x 4 = 320 4. **UPL** species 10 x 5 = 5. Column Totals: 90 (A) 370 (B) 6. Prevalence Index = B/A = 4.11 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Trifolium repens 30 **FACU** Plantago lanceolata 30 Yes **FACU** 4 - Morphological Adaptations¹ (Provide supporting 2 data in Remarks or on a separate sheet) 3. Daucus carota 10 No UPL 4. Cichorium intybus 10 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) No 10 5. Digitaria ischaemum No **FACU** ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 90 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30ft Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation Yes Present? No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

		o the de	-			ator or co	onfirm the absence of	f indicators.)
Depth	Matrix	0/		x Featur		1 - 2	Testina	Damanda
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-10	10YR 4/2	80	10YR 5/4	20	<u>C</u>	M	Loamy/Clayey	Distinct redox concentrations
								sandy loam
10-18	10YR 3/2	95	10YR 4/6	5	C	M	Sandy	Prominent redox concentrations
								sand
1Typo: C=Co	ncentration, D=Deple	tion PA	4-Poduced Matrix N			d Grains	² l ocation: Pl	L=Pore Lining, M=Matrix.
Hydric Soil II		HOH, KIV	I-Reduced Matrix, IV	/IO-IVIAS	keu San	u Grains.		or Problematic Hydric Soils ³ :
Histosol (Dark Surface (\$	(S7)				ck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Polyvalue Belo	` '	ice (S8) (LRR R,		rairie Redox (A16) (LRR K, L, R)
Black His			MLRA 149B		, , ,	,		cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Thin Dark Surfa	ace (S9) (LRR R	, MLRA 1		e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		High Chroma S	Sands (ຄ	311) (LR i	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky I	Mineral	(F1) (LR	RK, L)	Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Dar	rk Surface (A12)		Loamy Gleyed	Matrix ((F2)		Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Mesic Sp	odic (A17)		X Depleted Matrix	x (F3)			Red Pare	ent Material (F21) (outside MLRA 145)
(MLRA	A 144A, 145, 149B)		Redox Dark Su	urface (F	- 6)		Very Sha	allow Dark Surface (F22)
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	∍ (F7)		Other (Ex	xplain in Remarks)
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F	8)			
Sandy Re	dox (S5)		Marl (F10) (LR	RK, L)			³ Indicato	rs of hydrophytic vegetation and
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F	[:] 21) (ML ľ	RA 145)	wetlan	d hydrology must be present,
							unless	disturbed or problematic.
Type:	ayer (if observed):							
Depth (in	ches):						Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: 5010 West Vienna Road, Clio	City/County: Vienna Twp, St. Clair Co. Sampling Date: 10/23/2025				
Applicant/Owner: Stonefield Engineering	State: MI Sampling Point: UP4				
Investigator(s): ASTI - S. Jennings & E. Delie	Section, Township, Range: Sec. 17, T09N, R06E				
	Il relief (concave, convex, none): Slope Slope %: 0-2				
Subregion (LRR or MLRA): LRR L Lat: 43.178989	Long: -83.775525 Datum: NAD 83				
Soil Map Unit Name: Pinconning-Allendale loamy fine sands	NWI classification: None				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly distu	urbed? Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrologynaturally problem					
	mpling point locations, transects, important features, etc.				
Lindenthia Vacatation Property Voc. No. V	In the Complet Avec				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No _X	Is the Sampled Area within a Wetland? Yes No _X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
Upland located in the northwestern portion of the property.	J				
	J				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor					
Sediment Deposits (B2) Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced I					
Algal Mat or Crust (B4) Recent Iron Reduction					
Iron Deposits (B5) Thin Muck Surface (C7	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	arks) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
):				
Water Table Present? Yes No X Depth (inches)					
Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes No X Depth (inches) Saturation Present? Yes No X Depth (inches)					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:				
	· · · ·				
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: UP4

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	25	Yes	FACU	
2. Acer rubrum	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. Ostrya virginiana	10	No	FACU	
4.	10		17100	Total Number of Dominant Species Across All Strata: 6 (B)
			•	` ′
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
<i>1</i>	60	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15ft)				OBL species 0 x 1 = 0
1. Rosa multiflora	10	Yes	FACU	FACW species 20 x 2 = 40
2. Fraxinus pennsylvanica	10	Yes	FACW	FAC species 35 x 3 = 105
3. Juniperus virginiana	5	No	FACU	FACU species 90 x 4 = 360
4. Elaeagnus umbellata	5	No	UPL	UPL species 5 x 5 = 25
5.				Column Totals: 150 (A) 530 (B)
6.				Prevalence Index = B/A = 3.53
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5ft)				2 - Dominance Test is >50%
1. Solidago altissima	20	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Poa pratensis	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Euthamia graminifolia	10	No	FAC	data in Remarks or on a separate sheet)
4. Salix alba	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30ft)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

		the dept				ator or co	onfirm the absence of	indicators.)	
Depth (in all as)	Matrix			x Featur		12	Tarduma	Damanka	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	_
0-12	10YR 3/2	90	10YR 5/6	10	<u>C</u>	M	Sandy	Prominent redox concentrations	_
								loamy sand	
12-18	10YR 5/3	85	7.5YR 5/6	15	<u>C</u>	M	Sandy	Prominent redox concentrations	
								loamy sand	
			_			·			
									_
									_
									_
									_
									_
¹ Type: C=Cor	ncentration, D=Deple	tion, RM=	Reduced Matrix, N	MS=Masl	ked San	d Grains.	² Location: PL	_=Pore Lining, M=Matrix.	
Hydric Soil In								r Problematic Hydric Soils ³ :	
Histosol (A	· ·	_	Dark Surface (,				ck (A10) (LRR K, L, MLRA 149B)	
	pedon (A2)	_	Polyvalue Belo		ce (S8) (LRR R,		airie Redox (A16) (LRR K, L, R)	
Black Hist	` '		MLRA 149B	,				cky Peat or Peat (S3) (LRR K, L, R))
	Sulfide (A4)	_	Thin Dark Surf		-			Below Surface (S8) (LRR K, L)	
	_ayers (A5)		High Chroma S	•				Surface (S9) (LRR K, L)	
	Below Dark Surface ((A11) _	Loamy Mucky			RK,L)		ganese Masses (F12) (LRR K, L, R	
	k Surface (A12)	_	Loamy Gleyed		F2)			t Floodplain Soils (F19) (MLRA 149)	
Mesic Spo		_	Depleted Matri		·0\			ent Material (F21) (outside MLRA 1	45)
	144A, 145, 149B)	_	Redox Dark Si	`	,			llow Dark Surface (F22)	
	cky Mineral (S1)	_	Depleted Dark				Other (EX	rplain in Remarks)	
	eyed Matrix (S4)	_	Redox Depres	-	5)		31		
X Sandy Re		_	Marl (F10) (LR		04) (88) 8			s of hydrophytic vegetation and	
Stripped N	Matrix (S6)	_	Red Parent Ma	aterial (F	21) (MLI	KA 145)		d hydrology must be present, disturbed or problematic.	
Restrictive La	yer (if observed):								
Type:									
Depth (inc	hes):						Hydric Soil Presen	t? Yes <u>X</u> No	
Remarks:									

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: 5010 West Vienna Road, Clio	City/County: Vienna Twp, St. Clair Co. Sampling Date: 10/23/2025				
Applicant/Owner: Stonefield Engineering	State: MI Sampling Point: UP5				
Investigator(s): ASTI - S. Jennings & E. Delie	Section, Township, Range: Sec. 17, T09N, R06E				
	relief (concave, convex, none): Slope Slope %: 1-2				
Subregion (LRR or MLRA): LRR L Lat: 43.178752	Long: -83.775464 Datum: NAD 83				
Soil Map Unit Name: Pinconning-Allendale loamy fine sands	NWI classification: None				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation , Soil , or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problems					
SUMMARY OF FINDINGS – Attach site map showing sam					
	T				
Hydrophytic Vegetation Present? Yes NoX	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.) Upland located in the northwestern portion of the property.					
Opidita located in the northwestern portion of the property.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)Water-Stained Leaves (B	B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of					
Drift Deposits (B3) Presence of Reduced Iron					
Algal Mat or Crust (B4) Recent Iron Reduction in	in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
Saturation Present? Yes No X Depth (inches):					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: UP5

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	20	Yes	FACW	Number of Deminant Species
2. Acer rubrum	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 10 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15ft)				OBL species 0 x 1 = 0
1. Rosa multiflora	25	Yes	FACU	FACW species 30 x 2 = 60
2. Lonicera tatarica	10	Yes	FACU	FAC species45 x 3 =135
3. Rubus occidentalis	10	Yes	UPL	FACU species 55 x 4 =220
4. Cornua foemina	5	No	FAC	UPL species10 x 5 =50
5		. <u></u>		Column Totals: 140 (A) 465 (B)
6				Prevalence Index = B/A = 3.32
7		<u></u> .		Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5ft)				2 - Dominance Test is >50%
Symphyotrichum lateriflorum	10	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Prunus serotina	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Onoclea sensibilis	10	Yes	FACW	data in Remarks or on a separate sheet)
4. Solidago altissima	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Claytosmunda claytoniana	10	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
6		. <u></u>		be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8		. <u></u>		Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12	,			Herb – All herbaceous (non-woody) plants, regardless
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30ft)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			K Featur		1 - 2	T 4	Damanda
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 4/2	95	10YR 5/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
								-
								
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I								or Problematic Hydric Soils ³ :
Histosol ((A1)	_	Dark Surface (S7)			2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)	_	Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	Coast Pr	rairie Redox (A16) (LRR K, L, R)
Black His	` '		MLRA 149B	•				cky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)	-	Thin Dark Surfa					e Below Surface (S8) (LRR K, L)
	Layers (A5)	-	High Chroma S	-				k Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky I			R K, L)		iganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	-	Loamy Gleyed		F2)			at Floodplain Soils (F19) (MLRA 149B)
	odic (A17)	-	X Depleted Matrix		-0)			ent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B) ucky Mineral (S1)	-	Redox Dark Su Depleted Dark	•	,			allow Dark Surface (F22) xplain in Remarks)
	eyed Matrix (S4)	-	Redox Depress				Other (E.	xpiairi ii remarks)
Sandy Re		-	Marl (F10) (LR	•	0)		³ Indicato	rs of hydrophytic vegetation and
	Matrix (S6)	-	Red Parent Ma		21) (MLF	RA 145)		d hydrology must be present,
	(- /	-		`	, (-,		disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Preser	nt? Yes X No
Remarks:							•	

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

Project/Site: 5010 West Vienna Road, Clio		City/County: Vienna	Twp. St. Clair Co.	Sampling Date: 10/23/2025
Applicant/Owner: Stonefield Engineering			State: MI	Sampling Point: Wt1
Investigator(s): ASTI - S. Jennings & E. Deli		Section To	vnship, Range: Sec. 17, ⁻	· · · · · · · · · · · · · · · · · · ·
Landform (hillside, terrace, etc.): Depression			x, none): Concave	
Subregion (LRR or MLRA): LRR L	Lat: 43.177668		-83.775898	Datum: NAD 83
Soil Map Unit Name: Cohoctah silt loam	Lat. 40.177000	Long.	NWI classification:	
·				•
Are climatic / hydrologic conditions on the sit	*,	Yes X	,	explain in Remarks.)
Are Vegetation, Soil, or Hydro			nal Circumstances" prese	
Are Vegetation, Soil, or Hydro	ologynaturally problemat	tic? (If needed	l, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No	Is the Sampled Ar within a Wetland? If yes, optional We		No
Remarks: (Explain alternative procedures h Associate with forested Wetland A. Located		the property.		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	inimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks	(B6)
Surface Water (A1)	X Water-Stained Leaves (B	39)	Drainage Patterns (I	310)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water 1	
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	<i>'</i>
Sediment Deposits (B2)	Oxidized Rhizospheres o			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro	` '	Stunted or Stressed	, ,
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Position	` '
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B	· '	(S)	Microtopographic Re	` '
Sparsely Vegetated Concave Surface (E	38)		X FAC-Neutral Test (D)5)
Field Observations:	N			
Surface Water Present? Yes	No X Depth (inches): _ No X Depth (inches): _			
Water Table Present? Yes Saturation Present? Yes			d Hydrology Brocont?	Voc. V. No.
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):	vveuan	d Hydrology Present?	Yes <u>X</u> No
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	vious inspections), if	available:	
	,g	,,		
Remarks:				

VEGETATION – Use scientific names of plants. Sampling Point: Wt1 Absolute Dominant Indicator Tree Stratum (Plot size: 30ft % Cover Species? Status **Dominance Test worksheet: FACW** 1. Acer saccharinum 30 Yes **Number of Dominant Species** 2. 20 **FACW** Ulmus americana Yes That Are OBL, FACW, or FAC: 3. **Total Number of Dominant** 4. Species Across All Strata: 5 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 50 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15ft OBL species 1. **FACW** species 105 x 2 = 210 Fraxinus pennsylvanica 25 Yes **FACW** 2. FAC species 15 x 3 = 45 5 3. **FACU** species x 4 = 20 4. **UPL** species x 5 = 5. Column Totals: 125 (A) 275 6. Prevalence Index = B/A = 2.20 **Hydrophytic Vegetation Indicators:** 25 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Solidago gigantea 30 **FACW** X 3 - Prevalence Index is ≤3.0¹ Carex blanda 15 Yes FAC 4 - Morphological Adaptations¹ (Provide supporting 2 data in Remarks or on a separate sheet) 5 3. Thalictrum thalictroides **FACU** 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 50 =Total Cover of size, and woody plants less than 3.28 ft tall. 30ft Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation Present? Yes X No =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

Profile Desc Depth	ription: (Describe to Matrix	o the de		iment th k Feature		ator or co	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-12	10YR 4/2	98	10YR 4/6	2	С	M	Loamy/Clayey	Prominent redox concentrations		
								sandy loam		
12-18	10YR 4/1	95	7.5YR 5/6	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
								- <u>-</u>		
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	IS=Masl	ked San	d Grains.		PL=Pore Lining, M=Matrix.		
Hydric Soil I Histosol (Dark Surface (S	S7)				Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	ipedon (A2)		Polyvalue Belov		ce (S8) (I RR R		Prairie Redox (A16) (LRR K, L, R)		
Black His			MLRA 149B)		(00) (LIXIX IX,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4)		Thin Dark Surfa		(LRR R	. MLRA 1		ue Below Surface (S8) (LRR K, L)		
	Layers (A5)		High Chroma S		-			rk Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Mucky N	-				nganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)	()	Loamy Gleyed			, –,		nt Floodplain Soils (F19) (MLRA 149B		
	oodic (A17)		X Depleted Matrix		,			rent Material (F21) (outside MLRA 14		
	A 144A, 145, 149B)		Redox Dark Su		6)			allow Dark Surface (F22)		
	ucky Mineral (S1)		Depleted Dark	,	,			Explain in Remarks)		
	leyed Matrix (S4)		Redox Depress							
	edox (S5)		Marl (F10) (LRI	-	<i>3</i> ,		³ Indicate	ors of hydrophytic vegetation and		
	Matrix (S6)		Red Parent Ma		21) (MI I	2Δ 145)		nd hydrology must be present,		
отпросс	wattix (66)		rtou r dront wa	torial (i	21) (IIIL	140)		s disturbed or problematic.		
	.ayer (if observed):									
Type: _ Depth (in	ches):						Hydric Soil Prese	ent? Yes X No		
Remarks:							injunio com i rocc	<u> </u>		