Depth	Matrix 0/			dox Featur		1 - 2	T	
(inches) 0 - 8	Color (moist) 10YR 4/2	<u> </u>	Color (moist) 10YR 4/4	<u> </u>	Type	Loc <sup>2</sup>	SiL	Remarks
			-					
8 - 18	10YR 5/1	_ 92	10YR 4/4	_ 10	_ <u>C</u>	_ <u>M</u>	SiL	
			_					
					_			
	· -				_			
Type: C=C	Concentration, D=De	epletion, Ri	M=Reduced Matrix,	MS=Mask	ed Sand (	Grains.		L=Pore Lining, M=Matrix.
•	Indicators:							Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1) pipedon (A2)		Polyvalue Be MLRA 149		e (S8) ( <b>L</b>	RR R,		rie Redox (A16) ( <b>LRR K, L, MLRA 149B</b> )
	listic (A3)		Thin Dark Su	,	(LRR R,	MLRA 149B		ky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Muck			K, L)	Dark Surfa	ace (S7) ( <b>LRR K, L</b> )
	ed Layers (A5) ed Below Dark Surfa	aca (A11)	Loamy Gleye _/ Depleted Mat		<sup>-</sup> 2)			Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L)
	ark Surface (A12)	ace (ATT)	Redox Dark \$		3)			anese Masses (F12) ( <b>LRR K, L, R</b> )
	Mucky Mineral (S1)	)	Depleted Dar					Floodplain Soils (F19) ( <b>MLRA 149</b> B
	Gleyed Matrix (S4) Redox (S5)		Redox Depre	ssions (F8	5)			dic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) at Material (F21)
-	d Matrix (S6)							ow Dark Surface (TF12)
	urface (S7) ( <b>LRR R</b>	, MLRA 14	9B)					olain in Remarks)
Indicators (	of hydrophytic year	tation and v	vetland hydrology m	ust he nre	cont unla	see dieturhad	or problematic	
	Layer (if observed		wettand frydrology in	idst be pre	Serit, urile	33 distuibed		
Type: N								
Depth (ir	nches):						Hydric Soil Pre	esent? Yes <u>/</u> No
Remarks:								

Project/Site: GM Lordstown - Parcel	1	City/County: War	ren / Trumbull	Sampling Date: 10/21/2019		
Applicant/Owner: GM		_ , . <u>_</u> _	State: OH	Sampling Date: 10/21/2019 Sampling Point: DP34		
Investigator(s): GK, MH			o, Range:			
Landform (hillslope, terrace, etc.): Depre	ession	Local relief (concave	, convex, none): Concave	Slope (%): 0-2		
Subregion (LRR or MLRA): LRR-R; MLI	 RA-139 <sub>Lat</sub> . 41.151500	0	Long80.867139	Datum: WGS84		
Soil Map Unit Name: Wadsworth silt lo	eam (WbA)		NWI classifi	Section: Not Mapped		
Are climatic / hydrologic conditions on the						
				/		
Are Vegetation, Soil, or H						
Are Vegetation, Soil, or H			(If needed, explain any answ	•		
SUMMARY OF FINDINGS – Att	ach site map showi	ing sampling po	int locations, transect	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes ✓ No	Is the Sam	pled Area	,		
Hydric Soil Present?	Yes No		/etland? Yes <u>√</u>	No		
Wetland Hydrology Present?			onal Wetland Site ID:			
Remarks: (Explain alternative procedur	es here or in a separate re	eport.)				
HYDROLOGY	<del></del>					
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one is re	equired; check all that app	ly)	Surface Soi	l Cracks (B6)		
Surface Water (A1)	Water-Stain		Drainage Pa	atterns (B10)		
High Water Table (A2)	Aquatic Fau		Moss Trim I	_ines (B16)		
Saturation (A3)	Marl Deposi	its (B15)	Dry-Season	Water Table (C2)		
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)	Crayfish Bu			
Sediment Deposits (B2)	Oxidized Rh	nizospheres on Living	Roots (C3) Saturation \	/isible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of	Reduced Iron (C4)		Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Se				
Iron Deposits (B5)	Thin Muck S		Shallow Aqu			
Inundation Visible on Aerial Imager	· · · · —	ain in Remarks)				
Sparsely Vegetated Concave Surfa	ce (B8)		FAC-Neutra	al Test (D5)		
Field Observations:						
	No✓ Depth (inch	· -				
	No _ ✓ Depth (inch		Matlend Undrology Press			
Saturation Present? Yes <u>✓</u> (includes capillary fringe)	No Depth (inch	nes): <u>~</u>	Wetland Hydrology Prese	nt? Yes <u> </u>		
Describe Recorded Data (stream gauge	, monitoring well, aerial ph	notos, previous inspec	ctions), if available:			
Remarks:						
Tromano.						

001	Absolute	Dominant	Indicator	Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species		
1. Carya ovata (Shag-Bark Hickory)	<u>25</u>	YES	FACU	That Are OBL, FACW, or FAC:5 (A)		
2. Acer rubrum (Red Maple)	5	NO	FAC	Total Number of Dominant		
3				Species Across All Strata: 8 (B)		
4			-	Percent of Dominant Species		
5			_	That Are OBL, FACW, or FAC: 62.5% (A/B)		
6			_			
				Prevalence Index worksheet:		
7	30			Total % Cover of: Multiply by:		
50% = 20% =		= Total Cov	/er	OBL species x 1 =0		
Sapling/Shrub Stratum (Plot size: 15' )	10	VEO	E4.014/	racvi species x z =		
1. Lindera benzoin (Northern Spicebush)	10	YES	FACW	FAC species x 3 = 0 FACU species x 4 = 0		
2. Rosa multiflora (Rambler Rose)	5	YES	FAC	UPL species x 5 = 0		
3. Cornus racemosa (Gray Dogwood)	5	YES	FAC	Column Totals: 0 (A) 0 (B)		
4				(1)		
5				Prevalence Index = B/A =		
6		_	-	Hydrophytic Vegetation Indicators:		
7.			-	1 - Rapid Test for Hydrophytic Vegetation		
50% = 20% =	20	= Total Cov	·····	✓ 2 - Dominance Test is >50%		
Herb Stratum (Plot size: 5' )		- Total Co	/GI	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Herb Stratum (Plot size: 5  1. Quercus rubra (Red Oak)	20	YES	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
	15	YES	OBL	data in Remarks or on a separate sheet)		
2. Juncus effusus (Lamp Rush)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
3. Scirpus atrovirens (Dark-Green Bulrush)	15	YES	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
4. Rosa multiflora (Rambler Rose)	<u>15</u>	YES	FACU	be present, unless disturbed or problematic.		
5. Phalaris arundinacea (Reed Canary Grass)	10	<u>NO</u>	FACW	Definitions of Vegetation Strata:		
6. Smilax rotundifolia (Horsebrier)	10	NO	FAC			
7. Symphyotrichum racemosum (Fragile-Stem American Aster)	5	NO	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
8. Quercus palustris (Pin Oak)	3	NO	FACW			
9 Toxicodendron radicans (Eastern Poison Ivy)	3	NO	FAC	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
10.				Harb. All barbaccas (non woods) plants recording		
		_	_	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
11.						
12				Woody vines – All woody vines greater than 3.28 ft in height.		
50% = 20% =	96	= Total Cov	/er			
Woody Vine Stratum (Plot size: 15')						
1						
2						
3			-	Hydrophytic		
4				Vegetation No. 1		
50% = 20% =	0	= Total Cov	/er	Present? Yes No		
Remarks: (Include photo numbers here or on a separate structure of the	ŕ	]).				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix	21	Redox Features  Color (moiet) 9/4 Typo <sup>1</sup> Loc <sup>2</sup>						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	_	
0 - 7	10YR 4/2	98	10YR 4/4	2	<u>C</u>		SiL	_	
7 - 18	10YR 5/3	90	10YR 5/6	10	С	M	SiL		
								_	
								_	
								_	
							- <u></u>	_	
				_	_				
				_				_	
								_	
				_				_	
								_	
								_	
		oletion, RN	/I=Reduced Matrix, M	S=Maske	d Sand G	rains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	` '		Polyvalue Belo		e (S8) ( <b>LR</b>	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Black Hi	oipedon (A2)		Thin Dark Surf	,	IRRR M	II RA 149B	Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	,	
· · · · · · · · · · · · · · · · · · ·	n Sulfide (A4)		Loamy Mucky				Dark Surface (S7) (LRR K, L)		
	d Layers (A5)		Loamy Gleyed			, ,	Polyvalue Below Surface (S8) (LRR K, L)		
Depleted	d Below Dark Surfac	e (A11)	Depleted Matri	x (F3)			Thin Dark Surface (S9) (LRR K, L)		
	ark Surface (A12)		Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L, R		
	lucky Mineral (S1)		Depleted Dark				Piedmont Floodplain Soils (F19) (MLRA 149		
	Bleyed Matrix (S4) Redox (S5)		Redox Depress	sions (F8 <sub>,</sub>	)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Matrix (S6)						Red Parent Material (F21) Very Shallow Dark Surface (TF12)		
	rface (S7) ( <b>LRR R, I</b>	<b>MLRA 149</b>	<b>OB</b> )				Other (Explain in Remarks)		
	, , ,		,						
			etland hydrology mu	st be pres	sent, unles	s disturbed	d or problematic.		
	_ayer (if observed)	:							
Type: No	ne								
Depth (inc	ches):						Hydric Soil Present? Yes No	-	
Remarks:									

Project/Site: GM Lordstown - Parcel	4	City/Cou	<sub>inty:</sub> Warren / Trumb	oull	Sampling Date: 10/22/2019	
Applicant/Owner: GM				State: OH	Sampling Date: 10/22/2019  Sampling Point: DP35	
• • • • • • • • • • • • • • • • • • • •			Township, Range:		_	
Landform (hillslope, terrace, etc.): Depi	ression	Local relief	(concave, convex, non	e): Concave	Slope (%): 1-3	
Subregion (LRR or MLRA): LRR-R; ML	RA-139 Lat: 41.1	48598	Long: -80.	862234	Datum: WGS84	
Soil Map Unit Name: Udorthents (Ud)			Long	NW/L classific	ation: Not Mapped	
Are climatic / hydrologic conditions on th						
					/	
Are Vegetation, Soil, or H						
Are Vegetation, Soil, or I				xplain any answei	•	
SUMMARY OF FINDINGS – At	tach site map s	howing sampl	ling point locatio	ns, transects	, important features, etc.	
Hydrophytic Vegetation Present?	Yes✓ No	Is	the Sampled Area			
Hydric Soil Present?	Yes ✓ No	·——	vithin a Wetland?	Yes	No	
Wetland Hydrology Present?			yes, optional Wetland	Site ID:		
Remarks: (Explain alternative procedu			•	<del>-</del>		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is	required; check all th	ıat apply)		Surface Soil	· · · · · · · · · · · · · · · · · · ·	
Surface Water (A1)	Water	r-Stained Leaves (E		Drainage Pat		
High Water Table (A2)		tic Fauna (B13)	•	Moss Trim Li		
✓ Saturation (A3)		Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)		ogen Sulfide Odor (	(C1)	Crayfish Burr	rows (C8)	
Sediment Deposits (B2)	Oxidiz	zed Rhizospheres	on Living Roots (C3)	Saturation Vi	sible on Aerial Imagery (C9)	
Drift Deposits (B3)	Prese	ence of Reduced Iro	on (C4)	Stunted or St	tressed Plants (D1)	
Algal Mat or Crust (B4)	Recer	nt Iron Reduction ir	n Tilled Soils (C6)	✓ Geomorphic		
Iron Deposits (B5)		Muck Surface (C7)		Shallow Aqui	tard (D3)	
Inundation Visible on Aerial Image	· · · · —	r (Explain in Remar				
Sparsely Vegetated Concave Surf	ace (B8)			✓ FAC-Neutral	Test (D5)	
Field Observations:						
	No _ ✓ Dept	,				
	No <u>✓</u> Dept				10 Van ( Na	
Saturation Present? Yes (includes capillary fringe)	✓ No Dept	:h (inches):	Wetland H	ydrology Presen	t? Yes No	
Describe Recorded Data (stream gaug	e, monitoring well, ac	erial photos, previo	ous inspections), if avai	lable:		
Remarks:						

30'	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' )			Status_	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Dominant
3				Species Across All Strata:4 (B)
4				Percent of Dominant Species
5		_		That Are OBL, FACW, or FAC: 100.0% (A/B)
6			-	Prevalence Index worksheet:
7.			-	Total % Cover of: Multiply by:
50% = 20% =	0	= Total Co		OBL species x 1 =0
451		- Total Oc	7001	FACW species x 2 =0
Sapling/Shrub Stratum (Plot size: 15 )  Cornus racemosa (Gray Dogwood)	20	YES	FACW	FAC species x 3 =0
			- <del> </del>	FACU species x 4 =0
2				UPL species x 5 =0
3				Column Totals: 0 (A) 0 (B)
4				
5		_	-	Prevalence Index = B/A =
6		_	_	Hydrophytic Vegetation Indicators:
7		-	-	1 - Rapid Test for Hydrophytic Vegetation
50% = 20% =	20	= Total Co	over	∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5'		- Total Oc	7001	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5  1. Solidago rugosa (Wrinkle-Leaf Goldenrod)	30	YES	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Juncus effusus (Lamp Rush)	 25	YES	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Cornus racemosa (Gray Dogwood)	 25	YES	FACW	
Dactylis glomerata (Orchard Grass)	10	NO	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
5. Cirsium arvense (Canada Thistle)	- <del>8</del>	NO	FACU	be present, unless disturbed or problematic.
5.	- <del>5</del>	NO	FACW	Definitions of Vegetation Strata:
6. Doellingeria umbellata (Parasol White-Top)			<del></del>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7. Rosa multiflora (Rambler Rose)	_ 5	NO	FACU	at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9		_	-	and greater than or equal to 3.28 ft (1 m) tall.
10		_		Herb – All herbaceous (non-woody) plants, regardless
11		-	-	of size, and woody plants less than 3.28 ft tall.
12.		_	-	Woody vines – All woody vines greater than 3.28 ft in
50% = 20% =	108	= Total Co		height.
Woody Vine Stratum (Plot size: 15' )		- Total Oc	) V G I	
1				
2				
3				Hydrophytic
4				Vegetation   Present?   Yes ✓ No
50% = 20% =	0	= Total Co	over	130 110
Remarks: (Include photo numbers here or on a separate OBL/FACW: 3 UPL/FACU: 0 Passes FAC-Neutral Test (Secondary Hydrology Inc.)		]).		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox Features  Color (moist) % Typo <sup>1</sup> Loc <sup>2</sup>				-		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	—	
0 - 7	10YR 4/2	94	10YR 4/4	6	<u>C</u>	_ <u>M</u>	SiL		
7 - 18	10YR 5/1	93	10YR 5/6	7	С	M	SiL		
								_	
								_	
				_	_				
								_	
								—	
					_			_	
								—	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion. RM	1=Reduced Matrix, M	S=Maske	d Sand G	rains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	_	
Hydric Soil I		,	,				Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Belo	w Surface	e (S8) ( <b>LR</b>	RR,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
	ipedon (A2)		MLRA 149B	,			Coast Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa					(۱)	
	n Sulfide (A4) I Layers (A5)		Loamy Mucky I Loamy Gleyed			<b>(, L</b> )	<ul><li>Dark Surface (S7) (LRR K, L)</li><li>Polyvalue Below Surface (S8) (LRR K, L)</li></ul>		
	l Below Dark Surfac	e (A11)	Loanny Gleyed Depleted Matri:		۷)		Thin Dark Surface (S9) (LRR K, L)		
	rk Surface (A12)	- ( )	Redox Dark Su		)		Iron-Manganese Masses (F12) (LRR K, L, I	R)	
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (	F7)		Piedmont Floodplain Soils (F19) (MLRA 149	9B)	
	leyed Matrix (S4)		Redox Depress	sions (F8)	)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
	edox (S5)						Red Parent Material (F21)		
	Matrix (S6) face (S7) ( <b>LRR R, N</b>	AI DA 1/10	D)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
Daik oui	iace (O7) (EIXIX IX, II	ILICA 143	<b>5</b> )				Other (Explain in Normano)		
<sup>3</sup> Indicators of	hydrophytic vegetat	tion and w	etland hydrology mu	st be pres	ent, unles	s disturbed	d or problematic.		
	ayer (if observed):								
Type: No	ne								
Depth (inc	ches):						Hydric Soil Present? Yes No	_	
Remarks:									

Project/Site: GM Lordstown	- Parcel 4		City/County: War	ren / Trumbull	Sampling Date: 10/22/2019	
Applicant/Owner: GM				State: OH	Sampling Date: 10/22/2019 Sampling Point: DP36	
Investigator(s): GK, MH			o, Range:	<u> </u>		
	c.): hillslope	L	- .ocal relief (concave,	. convex, none): convex	Slope (%): <u>1-3</u>	
Subregion (LRR or MLRA): LF	R-R; MLRA-139	1 at: 41.148692		Long: -80.861673	Datum: WGS84	
Soil Map Unit Name: Udorthe	ents (Ud)	_ La		NWI classif	ication. Not Mapped	
Are climatic / hydrologic conditi		pical for this time of y				
					/	
Are Vegetation, Soil						
Are Vegetation, Soil				(If needed, explain any answ	•	
SUMMARY OF FINDING	S – Attach s	ite map showin	g sampling poi	int locations, transect	s, important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No <u></u> ✓	Is the Sam	pled Area	/	
Hydric Soil Present?	Yes_	No _ ✓	within a W	/etland? Yes	No <u> </u>	
Wetland Hydrology Present?	Yes_	No✓		onal Wetland Site ID:		
Remarks: (Explain alternative		or in a separate rep				
117/DDG1 007/						
HYDROLOGY Wetland Hydrology Indicate				Socondary Indic	estern (minimum of two required)	
Wetland Hydrology Indicator		that annly	A	· · · · · · · · · · · · · · · · · · ·	cators (minimum of two required)	
Primary Indicators (minimum	Of One is required,			Surface Soil Cracks (B6)		
Surface Water (A1)		Water-Stained		Drainage Patterns (B10)		
High Water Table (A2)		Aquatic Fauna		Moss Trim Lines (B16)		
Saturation (A3)		Marl Deposits		Dry-Season Water Table (C2) Crayfish Burrows (C8)		
Water Marks (B1)		Hydrogen Sul				
Sediment Deposits (B2)			zospheres on Living		Visible on Aerial Imagery (C9)	
Drift Deposits (B3)			Reduced Iron (C4)		Stressed Plants (D1)	
Algal Mat or Crust (B4)			Reduction in Tilled So		c Position (D2)	
Iron Deposits (B5)	-:-!	Thin Muck Su	, ,	Shallow Aq		
Inundation Visible on Aer		Other (Explain	n in Remarks)		raphic Relief (D4)	
Sparsely Vegetated Cond	:ave Suпасе (во)			FAC-Neutra	al lest (D5)	
Surface Water Present?	Vas No	✓ Depth (inche	ne).			
Water Table Present?	· · · · · · · · · · · · · · · · · · ·	Depth (inche	,			
Saturation Present?		Depth (inche		Wetland Hydrology Prese	ent? Yes No✓_	
(includes capillary fringe)			•		111: 165 115	
Describe Recorded Data (stre	eam gauge, monito	oring well, aerial pho	otos, previous inspec	tions), if available:		
Remarks:						

<u>Tree Stratum</u> (Plot size: 30' )	Absolute	Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species		
1		<del>-</del>		That Are OBL, FACW, or FAC:1 (A)		
2				Total Number of Dominant		
3				Species Across All Strata: 4 (B)		
4				Percent of Dominant Species That Are OBL FACW or FAC 25.0% (A/B)		
5				That Are OBL, FACW, or FAC:(A/B)		
6				Prevalence Index worksheet:		
7				Total % Cover of: Multiply by:		
50% = 20% =	0	= Total Cov	/er	OBL species 0 x 1 = 0		
Sapling/Shrub Stratum (Plot size: 15' )				FACW species 2 x 2 = 4		
1. Frangula alnus (Glossy False Buckthorn)	25	YES	FAC	FAC species $\frac{45}{135}$ $\times 3 = \frac{135}{135}$		
2		-	-	FACU species $\frac{120}{9}$ $\times 4 = \frac{480}{9}$		
3.			-	UPL species $0 \times 5 = 0$		
4			_	Column Totals:167		
				Prevalence Index = B/A =3.71		
5			_	Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7	25			2 - Dominance Test is >50%		
		= Total Cov	/er	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Herb Stratum (Plot size: 5' )	00	VEO	E4.011	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
1. Solidago canadensis (Canada Goldenrod)	- 60	YES	FACU	data in Remarks or on a separate sheet)		
2. Dactylis glomerata (Orchard Grass)	_ 25	YES	FACU	Problematic Hydrophytic Vegetation¹ (Explain)		
3. Rosa multiflora (Rambler Rose)	_ 25	YES	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
4. Solidago rugosa (Wrinkle-Leaf Goldenrod)	15	NO	FAC	be present, unless disturbed or problematic.		
5. Cirsium arvense (Canada Thistle)	10	NO	FACU	Definitions of Vegetation Strata:		
6. Frangula alnus (Glossy False Buckthorn)	5	NO	FAC			
7. Doellingeria umbellata (Parasol White-Top)	2	NO	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
8.		_	-			
9		_	_	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
		_				
10		_	_	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
11				Woody vines – All woody vines greater than 3.28 ft in		
12	142			height.		
50% = 20% =		= Total Cov	/er			
Woody Vine Stratum (Plot size: 15' )						
1						
2						
3				Hydrophytic		
4				Vegetation Present? Yes No ✓		
50% = 20% =	0	= Total Cov	/er			
Remarks: (Include photo numbers here or on a separate OBL/FACW: 1 UPL/FACU: 3  Does not pass FAC-Neutral Test (Secondary Hydrol	·	tor [D5]).				

Sampling	Point:	DP36
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Matrix		Redox Features	
Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
10YR 3/2	_ 100		SiL
10YR 5/3	_ 100_		SiL
· · · · · · · · · · · · · · · · · · ·	— ————	-Paducad Matrix, MS-Macked Sand Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Indicators: I (A1) Ipipedon (A2) Iistic (A3) en Sulfide (A4) Iid Layers (A5) Iid Below Dark Surfa Iirk Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Id Matrix (S6) Iurface (S7) (LRR R	ace (A11) , MLRA 149	<ul> <li>Polyvalue Below Surface (S8) (LRR R, MLRA 149B)</li> <li>Thin Dark Surface (S9) (LRR R, MLRA 149B Loamy Mucky Mineral (F1) (LRR K, L)</li> <li>Loamy Gleyed Matrix (F2)</li> <li>Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> </ul>	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
		, , , , , , , , , , , , , , , , , , , ,	
one			
nches):			Hydric Soil Present? Yes No/
	10YR 3/2 10YR 5/3 10YR 5/3 10YR 5/3 2000	10YR 3/2 10O 10YR 5/3 10O 10O 10YR 5/3 10O	10YR 5/3 100  10YR 5/3 100  10YR 5/3 100  10OR 6/3 100  10

Project/Site: GM Lordstown - Parcel	4	City/County: War	ren / Trumbull	Sampling Date: 10/22/2019		
Applicant/Owner: GM			State: OH	Sampling Date:		
Investigator(s): GK, MH		Section, Township	o. Range:			
Landform (hillslope, terrace, etc.): depre	ession	Local relief (concave,	convex. none); concave	Slope (%): 2-4		
Subregion (LRR or MLRA): LRR-R; ML	RA-139 <sub>Lat</sub> . 41.15062	4	Long80.862193	Datum: WGS84		
Soil Map Unit Name: Rittman silt loam	 າ (RsB)		NWI classifi	ication: Not Mapped		
Are climatic / hydrologic conditions on the						
				/		
Are Vegetation, Soil, or H						
Are Vegetation, Soil, or F			(If needed, explain any answ	·		
SUMMARY OF FINDINGS – At	tach site map show	ing sampling poi	nt locations, transect	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes ✓ No	Is the Sam	pled Area	,		
Hydric Soil Present?	Yes ✓ No		/etland? Yes <u></u> ✓	No		
Wetland Hydrology Present?			onal Wetland Site ID:			
Remarks: (Explain alternative procedu	res here or in a separate re	eport.)				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indic	cators (minimum of two required)		
Primary Indicators (minimum of one is a	required; check all that app	oly)	Surface Soi	l Cracks (B6)		
Surface Water (A1)	Water-Stain	ned Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fau		Moss Trim I			
✓ Saturation (A3)	Marl Depos	its (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen S	Sulfide Odor (C1)	Crayfish Bu	rrows (C8)		
Sediment Deposits (B2)	Oxidized Rh	nizospheres on Living	Roots (C3) Saturation \	Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of	f Reduced Iron (C4)	Stunted or S	Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled So	oils (C6) <u> </u>	c Position (D2)		
Iron Deposits (B5)	Thin Muck S		Shallow Aquitard (D3)			
Inundation Visible on Aerial Image		ain in Remarks)	<u> </u>			
Sparsely Vegetated Concave Surfa	ace (B8)		FAC-Neutra	al Test (D5)		
Field Observations:						
	No✓ Depth (incl	•				
	No ✓ Depth (incl		No. 41-11 dual- au Dua-	(5. V / No.		
Saturation Present? Yes  (includes capillary fringe)	No Depth (incl	hes): <u></u>	Wetland Hydrology Prese	ent? Yes <u> </u>		
Describe Recorded Data (stream gauge	e, monitoring well, aerial pl	hotos, previous inspec	tions), if available:			
Remarks:						
Tomano.						

Tree Stratum (Plot size: 30' )	Absolute		nt Indicator	Dominance Test worksheet:
			? Status	Number of Dominant Species That Are OBL FACW or FAC: 3 (A)
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata:4 (B)
4				Percent of Dominant Species That Are OBL FACW or FAC: 75.0% (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% = 20% =	0	= Total Co	over	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =0
1. Acer rubrum (Red Maple)	15	YES	FAC	FAC species x 3 =0
Lindera benzoin (Northern Spicebush)	 15	YES	FACW	FACU species x 4 =0
3.		_		UPL species x 5 =0
				Column Totals:0 (A)(B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
50% = 20% =	30	= Total Co	over	✓ 2 - Dominance Test is >50%  3 - Prevalence Index is ≤3,0 <sup>1</sup>
Herb Stratum (Plot size: 5' )				3 - Prevalence Index is \$3.0' 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Solidago canadensis (Canada Goldenrod)	30	YES	FACU	data in Remarks or on a separate sheet)
Juncus effusus (Lamp Rush)	30	YES	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Doellingeria umbellata (Parasol White-Top)	15	NO	FACW	
Rosa multiflora (Rambler Rose)	10	NO	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Scirpus cyperinus (Cottongrass Bulrush)	10	NO	OBL	
6 Scirpus atrovirens (Dark-Green Bulrush)	10	NO	OBL	Definitions of Vegetation Strata:
7. Lonicera japonica (Japanese Honeysuckle)	- <del>10</del>	NO	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
8. Toxicodendron radicans (Eastern Poison Ivy)	_ 3	NO	FAC	Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12			<u>-</u>	Woody vines – All woody vines greater than 3.28 ft in
50% = 20% =	113	= Total Co	over	height.
Woody Vine Stratum (Plot size: 15' )			• • • • • • • • • • • • • • • • • • • •	
		_	_	
1				
2				
3				Hydrophytic Vegetation
4				Present? Yes No
50% = 20% =		= Total Co	over	
Remarks: (Include photo numbers here or on a separate OBL/FACW: 2 UPL/FACU: 1	sheet.)			
Passes FAC-Neutral Test (Secondary Hydrology In	diagtor IDE	1\		
Passes FAC-Neutral Test (Secondary Hydrology III	מוטמנטו נטס	1).		

(inches)	Color (moist)	%	Color (moist)	lox Featur %	<u>es</u> <u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0 - 9	10YR 4/1	- <del>%</del> 94	10YR 4/6	- <del>70</del>	C Type	M	SiL	Remarks
9 - 18	10YR 5/2	- <del> </del>	10YR 5/6	_ <del></del> 15	- <del>C</del>		SiL -	
9 - 10	1011 3/2	_ 65	1011370			. <u>IVI</u>	<u> </u>	
					_			
		_	-		_			
					_			
	-							
	oncentration, D=De Indicators:	pletion, RN	M=Reduced Matrix, N	√S=Maske	ed Sand G	rains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils³:
Histosol			Polyvalue Bel	ow Surfac	e (S8) ( <b>I R</b>	RR		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		1 Olyvaide Bei		e (50) ( <b>E</b> K	ι ι,		airie Redox (A16) (LRR K, L, R)
_ Black Hi			Thin Dark Sur	face (S9)	(LRR R, M	LRA 149B		cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Loamy Mucky			(, L)		face (S7) ( <b>LRR K, L</b> )
	l Layers (A5) l Below Dark Surfa	co (A11)	Loamy Gleyed  ✓ Depleted Mate		·2)		-	e Below Surface (S8) ( <b>LRR K, L</b> ) k Surface (S9) ( <b>LRR K, L</b> )
	ark Surface (A12)	ce (ATT)	Redox Dark S		3)			ganese Masses (F12) ( <b>LRR K, L, R</b> )
	lucky Mineral (S1)		Depleted Dark					t Floodplain Soils (F19) (MLRA 149E
	leyed Matrix (S4)		Redox Depres	ssions (F8	)			oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
-	ledox (S5)							ent Material (F21)
	Matrix (S6) rface (S7) ( <b>LRR R</b> ,	MI RΔ 149	9B)					allow Dark Surface (TF12) xplain in Remarks)
Dark Sur		III LION I I	,				01101 (2)	xpiair ii remane,
_ Dark Su			vetland hydrology m	ust be pre	sent, unles	s disturbed	or problematic.	
ndicators of	hydrophytic vegeta							
ndicators of estrictive L	hydrophytic vegeta ayer (if observed)							
ndicators of	hydrophytic vegeta ayer (if observed)							
ndicators of estrictive L	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes/_ No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes/_ No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>/</u> No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>/</u> No
ndicators of estrictive L Type: <u>No</u> Depth (ind	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>/</u> No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>/</u> No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>√</u> No
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes No
ndicators of estrictive L Type: <u>No</u> Depth (ind	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>/</u> No
ndicators of testrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes / No
ndicators of Restrictive L Type: <u>No</u>	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u> </u>
ndicators of estrictive L Type: <u>No</u> Depth (ind	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u>/</u> No
ndicators of estrictive L Type: <u>No</u> Depth (ind	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes _ ✓ No
ndicators of estrictive L Type: <u>No</u> Depth (ind	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes <u> </u>
ndicators of estrictive L Type: <u>No</u> Depth (inc	hydrophytic vegeta ayer (if observed)						Hydric Soil Pi	resent? Yes _ / No

Project/Site: GM Lordstown - Parcel 4	City/County: Warren / Tru	ımbull	Sampling Date: 10/22/2019
Applicant/Owner: GM	, ,	State: OH	Sampling Date: 10/22/2019 Sampling Point: DP38
	Section, Township, Range:		
Landform (hillslope, terrace, etc.): depression	Local relief (concave, convex.	none): concave	Slope (%): 2-4
Subregion (LRR or MLRA): LRR-R; MLRA-139 Lat: 41.150586	8 Long: =	80.863877	Datum: WGS84
Soil Map Unit Name: Wadsworth silt loam (WbB)	Long	NIWI classific	Not Mapped
Are climatic / hydrologic conditions on the site typical for this time or			
Are Vegetation, Soil , or Hydrology  significan			/
Are Vegetation, Soil, or Hydrology naturally		d, explain any answe	·
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point loca	tions, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	Is the Sampled Are	a	
Hydric Soil Present? Yes ✓ No		Yes _	No
Wetland Hydrology Present? Yes/ No		and Site ID:	
Remarks: (Explain alternative procedures here or in a separate re	eport.)		
Point taken near old road bed.			
HYDROLOGY			
Wetland Hydrology Indicators:		-	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app		Surface Soil	
✓ Surface Water (A1) Water-Stain		Drainage Pa	
High Water Table (A2) Aquatic Fau		Moss Trim Li	
Saturation (A3) Marl Deposi			Water Table (C2)
	Sulfide Odor (C1)	Crayfish Bur	
	nizospheres on Living Roots (C f Reduced Iron (C4)		isible on Aerial Imagery (C9) stressed Plants (D1)
	Reduction in Tilled Soils (C6)	Sturtled of S	
Iron Deposits (B5) Thin Muck S		Shallow Aqu	
Inundation Visible on Aerial Imagery (B7) Other (Expla			aphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral	
Field Observations:			,
Surface Water Present? Yes _ / No Depth (inch	nes): <u>2</u>		
Water Table Present? Yes No _ ✓ Depth (inch			
Saturation Present? Yes _ / No Depth (inch	nes): 0 Wetlan	d Hydrology Preser	nt? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial ph	l notos, previous inspections), if a	available:	
·	•		
Remarks:			
Remarks.			

20% =

2 Lindera benzoin (Northern Spicebush)

Herb Stratum (Plot size: 5')

Smilax rotundifolia (Horsebrier)

Lindera benzoin (Northern Spicebush)

Scirpus cyperinus (Cottongrass Bulrush)

4. Rosa multiflora (Rambler Rose)

7. Ludwigia alternifolia (Seedbox)

50% = 20% =

Woody Vine Stratum (Plot size: 15'

Toxicodendron radicans (Eastern Poison Ivy)

1 Juncus effusus (Lamp Rush)

Sapling/Shrub Stratum (Plot size: 15'

1. Acer rubrum (Red Maple)

50% = 20% =

Tree Stratum (Plot size: 30'

1. Acer rubrum (Red Maple)

Absolute Dominant Indicator

% Cover Species? Status

FAC

FAC

FACW

OBL

FAC

FAC

FACU

OBL

OBL

OBL

Hydrophytic Vegetation

Present?

YES

80 = Total Cover

YES

YES

15 = Total Cover

YES

YES

NO

NO

NO

NO

NO

= Total Cover

= Total Cover

10

30

20

10

10

95

50% =	20% =	
Remarks:	(Include photo numbers I	nere or on a separate sheet.)

OBL/FACW: 2 UPL/FACU: 0

Passes FAC-Neutral Test (Secondary Hydrology Indicator [D5]).

Yes \_\_\_\_ No \_\_\_\_

Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Featu %	res Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
) - 10	10YR 4/2	97	10YR 4/4	3	C	 M	SiL	romano
0 - 18	10YR 5/2	92	10YR 5/4	8	_ <del>_</del>	_ <u></u>	SiL	
10 - 10	1011(3/2		1011(3/4				<u> </u>	
						_		
		_			_			
		_			_			
ype: C=C	oncentration, D=De	epletion, RN	/I=Reduced Matrix, N	– —— 1S=Mask	ed Sand G	 Grains.	<sup>2</sup> Location: PL	_=Pore Lining, M=Matrix.
	Indicators:							Problematic Hydric Soils <sup>3</sup> :
_ Histosol	, ,		Polyvalue Beld		ce (S8) ( <b>LF</b>	RR R,		(A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149E	,				rie Redox (A16) (LRR K, L, R)
	stic (A3) en Sulfide (A4)		Thin Dark Sur Loamy Mucky					y Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ce (S7) ( <b>LRR K, L</b> )
	d Layers (A5)		Loamy Gleyed			r, L)		Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ice (A11)	✓ Depleted Matr		,		-	Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark S				-	anese Masses (F12) ( <b>LRR K, L, R</b> )
	Mucky Mineral (S1)		Depleted Dark					Floodplain Soils (F19) (MLRA 149E
	Gleyed Matrix (S4) Redox (S5)		Redox Depres	SIONS (F	5)			dic (TA6) ( <b>MLRA 144A, 145, 149B</b> t Material (F21)
-	Matrix (S6)							ow Dark Surface (TF12)
	rface (S7) ( <b>LRR R,</b>	MLRA 149	<b>)B</b> )					lain in Remarks)
	r nygropnytic veget Layer (if observed		etland hydrology mu	ist be pre	esent, unie	ss disturbed	or problematic.	
Type: No		·)·						
							Hydric Soil Pres	sent? Yes <u>√</u> No
Depth (inc	cnes):						Tryunc Son Fre	sent: res No
emarks:								

Project/Site: GM Lordstown - Parce	I 4	City/County: War	ren / Trumbull	Sampling Date: 10/22/2019
Applicant/Owner: GM		_	State: OH	Sampling Date: 10/22/2019 Sampling Point: DP39
Investigator(s): GK, MH			o, Range:	
Landform (hillslope, terrace, etc.): dep	ression	Local relief (concave	convex. none); concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR-R; M	LRA-139 Lat. 41.149520	0	Long80.865308	Datum: WGS84
Soil Map Unit Name: Wadsworth silt	loam (WbA)		NWI classif	ication: Not Mapped
Are climatic / hydrologic conditions on the				
				/
Are Vegetation, Soil, or				
Are Vegetation, Soil, or			(If needed, explain any answ	·
SUMMARY OF FINDINGS – A	ttach site map showi	ng sampling po	int locations, transect	s, important features, etc.
Hydrophytic Vegetation Present?	Yes ✓ No	Is the Sam	pled Area	,
Hydric Soil Present?	Yes No		/etland? Yes <u></u> ✓	No
Wetland Hydrology Present?	Yes No	If yes, option	onal Wetland Site ID:	
Remarks: (Explain alternative proced	ures here or in a separate re	eport.)		
HYDROLOGY	<del></del>			
Wetland Hydrology Indicators:			Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is	required; check all that app	ly)	Surface Soi	il Cracks (B6)
Surface Water (A1)	Water-Stain		Drainage Pa	atterns (B10)
High Water Table (A2)	Aquatic Fau		Moss Trim I	Lines (B16)
✓ Saturation (A3)	Marl Deposi	its (B15)	Dry-Seasor	n Water Table (C2)
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)	Crayfish Bu	rrows (C8)
Sediment Deposits (B2)	Oxidized Rh	nizospheres on Living	Roots (C3) Saturation \	Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of	Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Se		
Iron Deposits (B5)	Thin Muck S		Shallow Aq	
Inundation Visible on Aerial Image		ain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Sur	face (B8)		<u>√</u> FAC-Neutra	al Test (D5)
Field Observations:				
	No✓ Depth (inch	· -		
	No _ ✓ Depth (inch		Made allegate la company	
Saturation Present? Yes (includes capillary fringe)	✓ No Depth (inch	nes): <u></u>	Wetland Hydrology Prese	ent? Yes <u> </u>
Describe Recorded Data (stream gaug	ge, monitoring well, aerial ph	notos, previous inspec	ctions), if available:	
Remarks:				

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum (Red Maple)	25	YES	FAC	Number of Dominant Species That Are OBL FACW or FAC: 5 (A)
2. Carya ovata (Shag-Bark Hickory)	10	YES	FACU	That Are OBL, FACW, or FAC: (A)
<del>-</del>	· —			Total Number of Dominant Species Across All Strata: 7 (B)
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% = 20% =	35	= Total Cov	/er	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15' )	4.0			FACW species
1. Lindera benzoin (Northern Spicebush)		YES	FACW	FAC species x 3 = 0
2				UPL species x 5 = 0
3			-	Column Totals: 0 (A) 0 (B)
4				( )
5		_	-	Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
50% = 20% =	10	= Total Cov	ver	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5' )				3 - Prevalence Index is ≤3.0¹
1. Juncus effusus (Lamp Rush)	20	YES	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Scirpus atrovirens (Dark-Green Bulrush)	15	YES	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Persicaria sagittata (Arrow-Leaf Tearthumb)	15	YES	OBL	
4 Rosa multiflora (Rambler Rose)	15	YES	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
5. Scirpus cyperinus (Cottongrass Bulrush)	10	NO	OBL	be present, unless disturbed or problematic.
6. Lindera benzoin (Northern Spicebush)	3	NO	FACW	Definitions of Vegetation Strata:
7. Toxicodendron radicans (Eastern Poison Ivy)	3	NO	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
50% = 20% =	81	= Total Cov	ver	l
Woody Vine Stratum (Plot size: 15' )				
1			-	
2			-	
3				Hydrophytic
4				Vegetation Present? Yes No
50% = 20% =	0	= Total Cov	ver .	165 <u></u>
Remarks: (Include photo numbers here or on a separate stops) OBL/FACW: 4 UPL/FACU: 2 Passes FAC-Neutral Test (Secondary Hydrology Indian)		)).		

Color (moist) 10YR 3/2 10YR 4/1 10YR 5/3	- % 100 97	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	
10YR 4/1						SiL	Remarks
		10YR 4/4	3			SiL —	
10 YR 5/3							
	95	10YR 5/6	_ 5	_ <u>C</u>	<u> </u>	SiL	
	epletion, RM	1=Reduced Matrix, N	MS=Maske	d Sand G	rains.		=Pore Lining, M=Matrix.  Problematic Hydric Soils³:
rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R,	, MLRA 149	Loamy Mucky Loamy Gleyer Depleted Mati Redox Dark S Depleted Darl Redox Depres	Mineral (F d Matrix (F drix (F3) Gurface (F6 k Surface ( ssions (F8)	F1) ( <b>LRR I</b> 2) ) F7)	<b>(</b> , L)	Dark Surfac Polyvalue E Thin Dark S Iron-Manga Piedmont F Mesic Spoo Red Parent Very Shallo Other (Expl	y Peat or Peat (S3) (LRR K, L, R) ce (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) inese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149) dic (TA6) (MLRA 144A, 145, 149E) t Material (F21) ow Dark Surface (TF12) lain in Remarks)
ne							
ches):						Hydric Soil Pres	sent? Yes <u>/</u> No
( ) S r	ndicators:  (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Below Dark Surfark Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R hydrophytic vege	ndicators:  (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) l Below Dark Surface (A11) rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, MLRA 149 hydrophytic vegetation and wayer (if observed):	ndicators:  (A1)	ndicators:  (A1)	Indicators:  (A1)	— Polyvalue Below Surface (S8) (LRR R, ipedon (A2)  Stic (A3) — Thin Dark Surface (S9) (LRR R, MLRA 149B)  Sulfide (A4) — Loamy Mucky Mineral (F1) (LRR K, L)  Layers (A5) — Loamy Gleyed Matrix (F2)  Below Dark Surface (A11) — Depleted Matrix (F3)  rk Surface (A12) — Redox Dark Surface (F6) — Depleted Dark Surface (F7)  leyed Matrix (S4) — Redox Depressions (F8)  edox (S5)  Matrix (S6)  face (S7) (LRR R, MLRA 149B)  hydrophytic vegetation and wetland hydrology must be present, unless disturbed ayer (if observed):  ne	Indicators for I  (A1)

Project/Site: GM Lordstown -	Parcel 4	City	/County: Warı	ren / Trumbull	Sampling Date: 10/22/2019
Applicant/Owner: GM				State: OH	Sampling Date: 10/22/2019 Sampling Point: DP40
Investigator(s): GK, MH				, Range:	
Landform (hillslope, terrace, etc.	): depression	Local r	elief (concave.	convex, none); concave	Slope (%): 0-1
Subregion (LRR or MLRA): LRF	R-R; MLRA-139	<sub>Lat:</sub> 41.148609		Long: -80.865441	Datum: WGS84
Soil Map Unit Name: Wadswor	rth silt loam (Wb	A)		NWI class	ification. Not Mapped
Are climatic / hydrologic conditio					
Are Vegetation, Soil					/
Are Vegetation, Soil					
				(If needed, explain any ansv	·
SUMMARY OF FINDING:	S – Attach Sit	e map snowing sa	mpling poi	nt locations, transec	ts, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	✓ No	Is the Sam	pled Area	/ No
Hydric Soil Present?	Yes	✓ No			
Wetland Hydrology Present?		✓ No	If yes, optio	nal Wetland Site ID:	
Remarks: (Explain alternative	procedures here o	or in a separate report.)			
HYDROLOGY					
Wetland Hydrology Indicator				· · · · · · · · · · · · · · · · · · ·	icators (minimum of two required)
Primary Indicators (minimum o	f one is required; c			Surface So	
Surface Water (A1)		<ul><li>Water-Stained Leav</li><li>Aquatic Fauna (B13)</li></ul>			Patterns (B10)
High Water Table (A2)	Moss Trim	Lines (B16)			
✓ Saturation (A3)		Marl Deposits (B15	)	Dry-Seaso	n Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide C	dor (C1)	Crayfish B	urrows (C8)
Sediment Deposits (B2)		Oxidized Rhizosphe	eres on Living F	Roots (C3) Saturation	Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduc	ed Iron (C4)	Stunted or	Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduct			ic Position (D2)
Iron Deposits (B5)		Thin Muck Surface	(C7)	Shallow A	quitard (D3)
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Re	emarks)		graphic Relief (D4)
Sparsely Vegetated Conca			•	FAC-Neut	
Field Observations:					
Surface Water Present?	Yes No _	✓ Depth (inches):			
Water Table Present?		✓ Depth (inches):			
Saturation Present?	Yes No	Depth (inches): 0		Wetland Hydrology Pres	ent? Yes No
(includes capillary fringe)  Describe Recorded Data (streat	am gauge, monitor	ing well, aerial photos, p	revious inspect	tions), if available:	
20001100110001303 2333 (2333	ani gaago,o.	ing tron, doi.a. p.10.0, p.	10110000p.2.2.	nono,, n avanas.c.	
Remarks:					

To 2 Otrotor (District 30'	Absolute		nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' )  Carya ovata (Shag-Bark Hickory)	<u>% Cover</u> 10	YES	? Status FACU	Number of Dominant Species
		-		That Are OBL, FACW, or FAC: 6 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4		-		Percent of Dominant Species That Are OBL_FACW_or FAC: 85.7% (A/B)
5				That Are OBL, FACW, or FAC: 85.7% (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% = 20% =	10	= Total C	over	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =0
1. Lindera benzoin (Northern Spicebush)	10	YES	FACW	FAC species x 3 =0
Acer rubrum (Red Maple)	5	YES	FAC	FACU species x 4 =0
3.		_		UPL species x 5 =0
				Column Totals:0 (A)0 (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation  ✓ 2 - Dominance Test is >50%
50% = 20% =	15	= Total C	over	
Herb Stratum (Plot size: 5'				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Juncus effusus (Lamp Rush)	_ 30	YES	OBL	data in Remarks or on a separate sheet)
2. Scirpus atrovirens (Dark-Green Bulrush)	15	YES	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Persicaria sagittata (Arrow-Leaf Tearthumb)	15	YES	OBL	
Rosa multiflora (Rambler Rose)	15	YES	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Onoclea sensibilis (Sensitive Fern)	10	NO	FACW	
6 Solidago canadensis (Canada Goldenrod)	5	NO	FACU	Definitions of Vegetation Strata:
7 Toxicodendron radicans (Eastern Poison Ivy)	3	NO	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
R. Quercus alba (White Oak)	3	NO	FACU	at breast height (DBH), regardless of height.
8. Quereus diba (Willie Oak)	- —	110		Sapling/shrub – Woody plants less than 3 in. DBH
9			- <del>-</del>	and greater than or equal to 3.28 ft (1 m) tall.
10		-		Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12		_		Woody vines – All woody vines greater than 3.28 ft in
50% = 20% =	96	= Total C	over	height.
Woody Vine Stratum (Plot size: 15' )				
1		_	-	
2.		_	_	
3		_	-	Livelgenhadie
4		_		Hydrophytic Vegetation
50% = 20% =	0	= Total C		Present? Yes ✓ No
Remarks: (Include photo numbers here or on a separate OBL/FACW: 4 UPL/FACU: 1  Passes FAC-Neutral Test (Secondary Hydrology Inc.)	ŕ	]).		

SOIL

Sampling Point: DP40

	Depth	Matrix			x Feature		. 2		
2 - 9		· · · · · · · · · · · · · · · · · · ·		Color (moist)	%	_ Type	Loc-	,	Remarks
9 - 18		-							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:    Histosol (A1)	2 - 9	10YR 4/2	_ 95	10YR 4/4	_ 5	_ <u>C</u>		SiL	
Hydric Soil Indicators:    Histosol (A1)	9 - 18	10YR 5/2	90	10YR 5/6	10	С	М	SiL	
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)						_			
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)						_			
Hydric Soil Indicators:    Histosol (A1)		-		-					
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)								. <u></u>	
Histosol (A1)			pletion, RM	1=Reduced Matrix, M	S=Maske	ed Sand G	rains.		
Histic Epipedon (A2)  MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Bandy Gleyed Matrix (F2)  Polyvalue Below Surface (S9) (LRR K, L)  Thick Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L, R)  Hydric Soil Present? Yes ✓ No	-								•
Black Histic (A3)						e (S8) ( <b>LR</b>	R R,		
Hydrogen Sulfide (A4)					,	(LRR R. M	LRA 149B		
Depleted Below Dark Surface (A11)						•		· —	
Thick Dark Surface (A12)	Stratifie	ed Layers (A5)		Loamy Gleyed	Matrix (F	2)		Polyval	ue Below Surface (S8) ( <b>LRR K, L</b> )
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**  **Restrictive Layer (if observed):			ice (A11)			.,			
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):									
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):									
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):				Redex Depress	,10110 (1 0 <sub>,</sub>	,			
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: None  Depth (inches): Hydric Soil Present? Yes _ ✓ No	-								, ,
Restrictive Layer (if observed):           Type:         None           Depth (inches):         Hydric Soil Present? Yes _ ✓ _ No	Dark Si	urface (S7) ( <b>LRR R,</b>	MLRA 149	<b>B</b> )				Other (I	Explain in Remarks)
Restrictive Layer (if observed):           Type:         None           Depth (inches):         Hydric Soil Present? Yes _ ✓ _ No	<sup>3</sup> Indicators (	of hydrophytic veget	ation and w	etland hydrology mus	et ha nra:	cent unles	e dieturha	d or problematic	
Type:         None           Depth (inches):				etiand flydrology frids	st be pres	sent, unies	S disturbed	or problematic.	
Depth (inches): No		• (	.,-						
F (	• • •							Hydric Soil I	Present? Yes✓ No
				<del></del>					
	Remains.								

Project/Site: GM Lordstown	- Parcel 4		City/County: War	ren / Trumbull	Sampling Date: 10/22/2019
Applicant/Owner: GM				State: OH	Sampling Date: 10/22/2019 Sampling Point: DP41
Investigator(s): GK, MH				o, Range:	
Landform (hillslope, terrace, etc					Slope (%): 0-1
Subregion (LRR or MLRA): LR	R-R; MLRA-139	1 at: 41.148723	,	Long80.865083	Datum: WGS84
Soil Map Unit Name: Wadswo	orth silt loam (W	bA)		NWI classif	ication. Not Mapped
Are climatic / hydrologic conditi					
					/
Are Vegetation, Soil					
Are Vegetation, Soil				(If needed, explain any answ	•
SUMMARY OF FINDING	S – Attach si	te map showing	sampling poi	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes	✓ No	Is the Sam	pled Area	
Hydric Soil Present?		No ✓	within a W	etland? Yes	No
Wetland Hydrology Present?	Yes _	No✓		onal Wetland Site ID:	
Remarks: (Explain alternative	e procedures here	or in a separate repor	rt.)		
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soi	il Cracks (B6)
Surface Water (A1)		Water-Stained I	Leaves (B9)	Drainage Pa	atterns (B10)
High Water Table (A2)		Aquatic Fauna		Moss Trim I	
Saturation (A3)		Marl Deposits (I	B15)	Dry-Seasor	n Water Table (C2)
Water Marks (B1)		Hydrogen Sulfic	de Odor (C1)	Crayfish Bu	
Sediment Deposits (B2)		Oxidized Rhizos	spheres on Living	Roots (C3) Saturation \	Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Re	duced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Rec			c Position (D2)
Iron Deposits (B5)		Thin Muck Surfa		Shallow Aq	
Inundation Visible on Aer		Other (Explain i	in Remarks)		raphic Relief (D4)
Sparsely Vegetated Cond	cave Surface (B8)			FAC-Neutra	al Test (D5)
Field Observations:					
Surface Water Present?		Depth (inches)	· -		
Water Table Present?		Depth (inches)		197 de est Headre la my Duana	10 May /
Saturation Present? (includes capillary fringe)	Yes No _	✓_ Depth (inches)	):	Wetland Hydrology Prese	ent? Yes No ✓
Describe Recorded Data (stre	eam gauge, monito	ring well, aerial photo	s, previous inspec	tions), if available:	
Remarks:					
Tromano.					

<b>-</b> 30'	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30'  1. Acer rubrum (Red Maple)	<u>% Cover</u> 15	Species?		Number of Dominant Species
···		YES _	FAC	That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				Percent of Dominant Species That Are ORL FACW or FAC: 66.7% (A/R)
5				That Are OBL, FACW, or FAC: 66.7% (A/B)
6		-		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% = 20% =	15	= Total Co	ver	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =0
1. Acer rubrum (Red Maple)	5	YES	FAC	FAC species x 3 =0
2.		-	_	FACU species x 4 =0
3.				UPL species $x5 = 0$
4			_	Column Totals:0 (A)0 (B)
5				Prevalence Index = B/A =
			_	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	5			✓ 2 - Dominance Test is >50%
		= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5'  1. Rosa multiflora (Rambler Rose)	40	YES	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Dactylis glomerata (Orchard Grass)	15	NO	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Smilax rotundifolia (Horsebrier)	10	NO	FAC	
4. Quercus alba (White Oak)	10	NO	FACU	¹Indicators of hydric soil and wetland hydrology must
5. Toxicodendron radicans (Eastern Poison Ivy)	5	NO	FAC	be present, unless disturbed or problematic.
	· <u> </u>	_		Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8			<u>-</u>	Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
50% = 20% =	80	= Total Cover		neight.
Woody Vine Stratum (Plot size: 15' )				
1		-		
2		_		
3		-	-	Hydrophytic
4.		_	_	Vegetation
50% = 20% =	0	= Total Co	ver	Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)  OBL/FACW: 0  UPL/FACU: 1  Does not pass FAC-Neutral Test (Secondary Hydrology Indicator [D5]).				

Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc<sup>2</sup> Color (moist) Color (moist) Type<sup>1</sup> Texture (inches) 0 - 1110YR 4/3 99 10YR 4/4 1 C M SiL 11 - 18 10YR 5/3 85 10YR 5/4 15 C Μ SiL <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, \_\_\_ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**) \_\_\_ Histic Epipedon (A2) MLRA 149B) \_\_\_ Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) \_ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) \_\_\_ Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) \_ Thin Dark Surface (S9) (LRR K, L) \_\_\_ Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) \_\_\_ Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) \_\_\_ Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) \_\_\_ Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes \_ \_\_ No <u>\_\_</u> Depth (inches): \_ Remarks:

# APPENDIX C PHOTOGRAPHS

## **Photo Location Key Map**

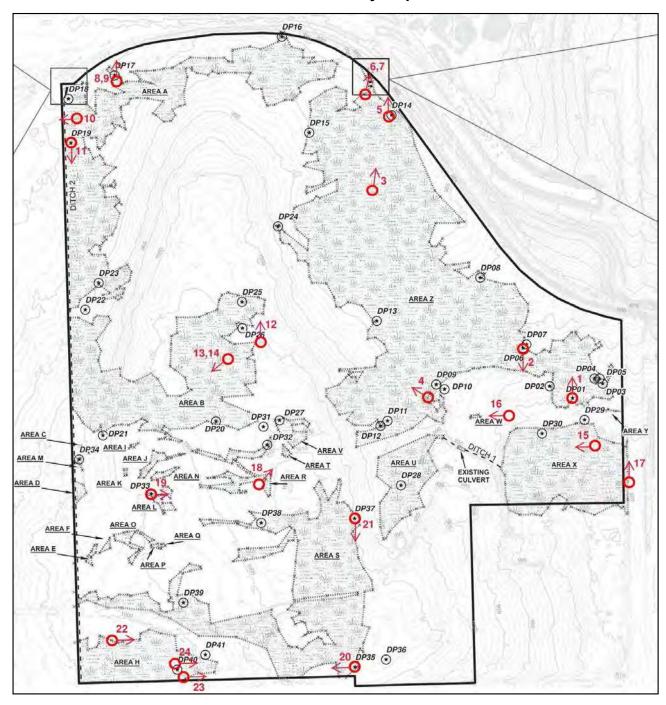




Photo 1: Facing N from DP01 towards emergent wetland in Area Z. (Photo taken 10/15/2019)



Photo 2: Facing S from DP06 towards wool grass and pin oak in Area Z. (Photo taken 10/15/2019)



Photo 3: View of emergent wetland in northcentral portion of Area Z. (Photo taken 10/15/2019)



Photo 4: View of large depression in Area Z near flag WLA1026 (Photo taken 10/15/2019)



Photo 5: Facing N from DP14 towards arrow-leaved tearthumb. (Photo taken 10/16/2019)



Photo 6: View of Stream 1 as it leaves the Site. Train tracks in distance. (Photo taken 10/16/2019)



Photo 7: View of incised banks of Stream 1. (Photo taken 10/16/2019)



Photo 8: Facing N from DP17 towards emergent wetland vegetation. (Photo taken 10/17/2019)



Photo 9: Depleted matrix (F3) soil profile at DP17 which is typical for wetland areas throughout the Site. (Photo taken 10/17/2019)



Photo 10: View of Stream 2 in the northwest corner of the Site. (Photo taken 10/17/2019)



Photo 11: Facing S from DP19 towards wool grass on left and Site boundary on right (Photo taken 10/17/2019)



Photo 12: Facing N from border of Area B (on left) and existing gravel access road (on right) (Photo taken 10/17/2019)



Photo 13: View of typical vegetation in Area B. (Photo taken 10/17/2019)



Photo 14: View of Depleted matrix (F3) soil profile in Area B. (Photo taken 10/17/2019)



Photo 15: Facing W towards wool grass in Area X. (Photo taken 10/18/2019)



Photo 16: Facing W towards Area W (on right) and access road (on left). (Photo taken 10/18/2019)

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Summary: Application for Certificate of Environmental Compatibility and Public Need (Part 2c of 4) electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc.