

Wetland & Waterway Consulting, LLC

Dave Meyer S83 W23915 Artesian Avenue • Big Bend, WI 53103 262-719-4286 • Fax 262-364-2197 E-Mail • dave@wetlandwi.com

10-8-18

Mr. Matt Mehring Anderson Ashton, Inc. 2746 S. 166th Street New Berlin, WI 53151

Dear Mr. Mehring:

Wetland & Waterway Consulting (WWC) has conducted a wetland delineation on property located in Sec. 1, T3N, R19E, Village of Waterford and Sec. 36, T4N, R19E Village of Waterford, Racine County. The delineation was conducted on 6-1-18 at your request. This site is under consideration for future development; therefore, location of the wetlands prior to construction is necessary. The purpose of the delineation was to identify and flag all wetlands within the boundaries identified on the attached maps.

Investigator

Dave Meyer, lead delineator, is an independent environmental consultant providing wetland delineations, environmental permitting services, site assessments, and planning advice. He obtained a master's degree in Natural Resources Management from Southern Illinois University-Carbondale in 1977. Mr. Meyer has held technical and administrative positions in wetland and water resources specialties with the Wisconsin Department of Natural Resources and the U.S. Army Corps of Engineers. He has satisfactorily completed the Reg IV Wetland Delineation training offered by the U.S. Army Corps of Engineers, the Advanced Wetland Delineation training conducted by the University of Wisconsin-LaCrosse in 2002 and 2007, the USACOE/WIDNR 1987 Wetland Delineation Manual Midwest Region Supplement Training in 2009, the USACOE/WIDNR 1987 Wetland Delineation Manual Northcentral/Northeast Region Supplement Training in 2010, the Basic Hydric Soil ID training conducted by the University of Wisconsin-LaCrosse in 2011, the Wetland Training Institute's Advanced Hydrology for Jurisdictional Determinations in 2016, and the SEWRPC Environmental Corridor Delineation Workshops in 2004 and 2015. Mr. Meyer is recognized by the Wisconsin Department of Natural Resources as an Assured Delineator.

Kristi Sherfinski has over 17 years of experience delineating wetlands in the Great Lakes Region. She received her initial basic wetland training at the Wetland Training Institute in Hastings, Michigan in 2002. Kristi worked as a project manager and wetland delineator at JFNew & Associates in Grand Haven, Michigan for six years, conducting wetland delineations in Michigan, Indiana, Illinois, and Wisconsin. Kristi then moved to Wisconsin to work for the Southeastern Wisconsin Regional Planning Commission (SEWRPC) under the supervision of Dr. Donald Reed. At SEWRPC, Kristi updated the Wisconsin Wetland Inventory (WWI) in 2005 and in 2010 for the seven county area of southeast Wisconsin. Kristi participated in the Critical Methods in Wetland Delineation (Assured Wetland Delineator) training in 2006. In 2009, she attended the Wetland Delineation USACE Regional Supplement training session, the Environmental Corridor Delineation Workshop, and the Farm Service Agency (FSA) Slide Review training session. After working at SEWRPC for seven years, Kristi worked as an environmental specialist at JSD Professional Services, Inc. for two years.

Methods

The site visit was conducted according to the guidelines identified in the U.S. Army Corps of Engineers' 1987 manual and the Northcentral/Northeast Regional Supplement. The plot size used was a 30 foot radius circle for trees, shrub/saplings, and woody vines, and a 5 foot radius circle for herbaceous vegetation. Resources utilized in the investigation included the NRCS county soil survey, Wisconsin Wetland Inventory mapping, topo mapping, aerial photos, county plat mapping. The Vegetation of Wisconsin, Wetland Plants and Plant Communities of Minnesota and Wisconsin - 3rd Edition, A Field Guide to Wildflowers of Northeastern and Northcentral North America, and Plants of the Chicago Region. Sampling points were located in the areas that exhibited wetland characteristics as well as upland characteristics. Data was collected on the vegetation, soils, and hydrology at each sampling point. The wetlands were identified using the technical approach described in the USACOE 1987 Manual. The wetland boundary was flagged using breaks in topography, transitions between hydric and upland vegetation, identification of wetland hydrology, and the presence of hydric soils. Roadside ditches were identified if they displayed hydric vegetation. Flags were placed in the middle of the ditches at their beginning and ending points for the surveyor to locate. If the ditch was very long or had unusual bends or turns in it, additional flags were placed within the central parts of the ditch to assist in its location. The flags were located in the field by a registered land surveyor and a wetland map was produced which identifies all flagged wetland complexes and ditches within the subject boundaries. Refer to the wetland map attached to the end of this report for locations. In addition, an FSA crop history slide review was undertaken prior to the delineation because the county soil survey shows somewhat poorly drained or poorly drained soils present in farmed areas on the parcel. In preparation for the slide review, the NRCS wetland map was used to locate mapped areas of Prior Converted "PC", Wetland "W", Farmed Wetland "FW", Non-Wetland "NW", etc. Ten years of imagery were examined and used in the calculation for the number of hits. The review was started by examining a wet year aerial photograph to show the maximum extent of possible wetlands. Using that potential maximum extent of wetlands as the starting point, the normal years, if present, were then used to determine the more likely location and extent of the wetlands. Wet year signatures, particularly if they showed up on multiple years, were utilized in the field to determine the location of data points to demonstrate potential adjacent upland conditions. All wet signatures, whether they showed up on wet, normal, or dry years, were used to calculate the number of hits. Eight categories of wet signatures have been identified as follows [USDA, NRCS 1998. Wisconsin Wetland Mapping Conventions-WI513.30 (c) Off-site wetland identification tools. (WI-180-V-NFSAM). (3rd ed.) (Amendment WI21)]: 1) Hydrophytic vegetation which is typically seen as a different shade of green, 2) Surface water which usually shows as black or white areas, 3) Drowned-out crops identified as bare soil or mud flats, 4) Color differences that are the result of different planting dates or specific areas of the field that were not farmed in a given year, 5) Inclusionary wet areas that are part of a set-aside program, 6) Areas of greener color that are present in dry years, 7) Crop stress seen as yellow colors or sparse canopy typically seen as light green, and 8) Saturated soil that is visible on infrared (IR) slides or photographs.

Results and Discussion

* This approximately 54 acre vacant site is situated on the northeast corner of the intersection of STH 36 and STH 20 in the Village of Waterford. The site consists of active crop fields, stands of upland hardwood trees and shrubs, and wetlands. The topography varies across the site and will be discussed separately under each wetland complex described below.

* This site has not been previously delineated.

* The soil types mapped within the project boundaries are Ashkum silty clay loam (AtA), Blount silt loam (BlA), Houghton muck (Ht), Ozaukee silt loam (OzaB, OzaB2, OzaC, OzaC2, OzaD), and Water (W).

* A total of 3 roadside ditches with hydric vegetation are present within the project boundaries. They are all identified on the attached wetland map. The total length, average width, and dominant vegetation in each ditch is as follows:

Ditch #1 is 1,932' in length and an average of 3' in width. It is dominated by narrowleaf cattail and reed canary grass. No water was present at the time of the delineation. The side slopes of the ditch are dominated by Kentucky bluegrass, Canada goldenrod, bird's foot trefoil, and Queen Anne's lace.

Ditch #2 is 206' in length and an average of 3' in width. It is dominated by reed canary grass. No water was present at the time of the delineation. The side slopes of the ditch are dominated by Kentucky bluegrass, Canada goldenrod, bird's foot trefoil, and Queen Anne's lace.

Ditch #3 is 226' in length and an average of 3' in width. It is dominated by narrowleaf cattail and reed canary grass. No water was present at the time of the delineation. The side slopes of the ditch are dominated by Kentucky bluegrass, Canada goldenrod, bird's foot trefoil, and Queen Anne's lace.

* Ten years of slides were analyzed for the FSA slide review. Seven areas throughout the property displayed 2 or more years of wetland signatures out of ten. Five of these areas were flagged as wetland and are discussed below.

* The Wisconsin Wetland Inventory map shows an E2H wetland in the same location as Wetland A. This complex was found and flagged in the general configuration as shown on the WWI map. The WWI shows an E2H in the same location as Wetland B. This complex was found and flagged in the general configuration as shown on the WWI map. The WWI also shows a T3K complex just offsite to the south in the extreme southeast corner of the site. A very small portion of this complex is actually on the subject property.

* The following wetland complexes were flagged and are present on the parcel:

Wetland A is a 507,284 square foot (11.64 acre) shallow depressional basin that includes wet meadow, shrub carr, and shallow water marsh. This complex extends offsite to the east for undetermined distances. Flags were placed around the topo break along the upper edge of the depressional basin which coordinated closely with discernable shifts in vegetation, hydrology, and soils from hydric to upland conditions.

DP #3 is located in Area 2 on the FSA slide review and had 7 hits out of 10 years. This area is identified as PC, but is not farmed regularly. A broken field tile is obvious and has contributed to this area developing hydric characteristics. It is dominated by giant goldenrod and hummock sedge in the herbaceous stratum. Soils meet the F6 indicator and hydrology indicators of Saturation, Geomorphic Position, and the FAC-Neutral Test are present. The adjacent upland data points (DP #'s 1 and 2) were taken in the adjacent cropped field. This area is situated on a 3 to 5% hill that slopes south toward Wetland A. DP #1 is located in Area 1 on the FSA slide review and had 2 hits out of 10 years. Although this area is mapped as PC, hydric soils are not present. This portion of the field had been planted just before the delineation, but no germination had taken place. The vegetation was dominated by volunteer dandelion. No hydrology indicators are present. DP #2 is mapped as PC, but hydric soils are not present. This portion of the field had been planted just before the delineation, but no germination had taken place.

taken place. The vegetation was dominated by volunteer dandelion and Queen Anne's lace. No hydrology indicators are present.

DP #5 is located in Area 3 on the FSA slide review and had 10 hits out of 10 years. This area is identified as PC but has not been farmed for at least 18 years and has completely reverted to wetland. It is dominated by sandbar willow in the sapling/shrub stratum and Kentucky bluegrass and reed canary grass in the herbaceous stratum. Soils meet the F3, F6, and A11 indicators and hydrology indicators of Saturation, Geomorphic Position, and the FAC-Neutral Test are present. The adjacent upland data point (DP #4) was taken in the adjacent cropped field. This area is mapped as PC. This portion of the field had been planted just before the delineation, but no germination had taken place. The vegetation was dominated by volunteer dandelion and Queen Anne's lace. No hydrology indicators are present. This portion of the field remains effectively drained.

DP #7 is located in the southern portion of Wetland A and is dominated by gray dogwood and nannyberry in the sapling/shrub stratum and reed canary grass in the herbaceous stratum. Soils meet the A1 indicator and hydrology indicators of High Water Table, Saturation, Geomorphic Position, and the FAC-Neutral Test are present. The adjacent upland data point (DP #6) was taken on the bordering wooded hillslope of an approximate 5% grade leading down to the wetland. It is dominated by black cherry in the tree stratum; common buckthorn, gray dogwood, and honeysuckle in the sapling/shrub stratum; and agrimony, common buckthorn, and green ash in the herbaceous stratum. Neither soil nor the required hydrology indicators are present.

DP #8 is located in the western portion of Wetland A and is dominated by narrowleaf cattail and reed canary grass in the herbaceous stratum. Soils meet the A3, A11, and F3 indicators and hydrology indicators of High Water Table, Saturation, Geomorphic Position, and the FAC-Neutral Test are present. The adjacent upland data point (DP #9) was taken on the bordering wooded hillslope of an approximate 5% grade leading down to the wetland. It is dominated by northern red oak in the tree stratum; common buckthorn and gray dogwood in the sapling/shrub stratum; and sticky willy in the herbaceous stratum. Neither soil nor the required hydrology indicators are present.

Wetland B is a 10,146 square foot (0.23 acre) E2H depressional basin dominated by sandbar willow and nannyberry in the sapling/shrub stratum and narrowleaf cattail and reed canary grass in the herbaceous stratum (DP #11). Soils meet the A11, F3, and F6 indicators and hydrology indicators present are High Water Table, Saturation, Geomorphic Position, and the FAC Neutral Test. Flags were placed at the topo breaks along the toe of the slope where the hillslope and wetland basin intersect. This coordinated closely with discernable shifts in vegetation, hydrology, and soils from hydric to upland conditions. The adjacent upland data point (DP #10) was taken on the adjoining wooded hillslope of an approximate 5% grade leading down to the wetland. It is dominated by white oak and shagbark hickory in the tree stratum; common buckthorn in the sapling/shrub stratum; and common buckthorn in the herbaceous stratum. Neither soil nor the required hydrology indicators are present. See Photo F.

Wetland C is a 3,010 square foot (0.07 acre) ephemeral pond (DP #13) located in a shallow depression surrounded by a second-growth upland hardwood forest. It is dominated by common buckthorn and green ash in the sapling/shrub stratum and green ash in the herbaceous stratum. Soils meet the F3 indicator and hydrology indicators of Water Stained Leaves, Saturation, Geomorphic Position, and the FAC-Neutral Test are present. Flags were placed around the topo break along the upper edge of the depressional basin. See Photo H. The adjacent upland area (DP #14) is dominated by black cherry and northern red oak in the tree stratum; common buckthorn in the sapling/shrub stratum; and arrowleaf aster, enchanter's nightshade, and common buckthorn in the herbaceous stratum. Neither soil nor the required hydrology indicators are present.

Wetland D is a 10,936 square foot (0.25 acre) shallow depression in the cropped field that had 3 hits out of 10 years (DP #15). It is Area 4 on the FSA slide review. There is only 2% absolute cover of corn in this area which displayed significant stunting when compared to the surrounding crop. Soils meet the F3 indicator and hydrology indicators of Saturation Visible on Aerial Imagery, Saturation, and Geomorphic Position are present. The adjacent upland (DP #16) is the cropped field displaying a healthy corn crop with no evidence of stress, yellowing, or drowned-out conditions. This area is in a mapped PC location, but neither soil nor hydrology indicators are present. See Photo G.

Wetland E is a 3,929 square foot (0.09 acre) shallow depression in the cropped field that had 4 hits out of 10 years (DP #17). It is Area 6 on the FSA slide review. There is only 2% absolute cover of corn in this area which displayed significant stunting when compared to the surrounding crop. Soils meet the F3 indicator and hydrology indicators of Saturation Visible on Aerial Imagery, Saturation, and Geomorphic Position are present. The adjacent upland (DP #18) is the cropped field displaying a healthy corn crop with no evidence of stress, yellowing, or drowned-out conditions. See Photo G.

Wetland F is a 10,858 square foot (0.25 acre) shallow depression in the cropped field that had 8 hits out of 10 years (DP #19). It is Area 5 on the FSA slide review. There is only 2% absolute cover of corn in this area which displayed significant stunting when compared to the surrounding crop. Carex blanda was also present at 2%. Soils meet the F3 indicator and hydrology indicators of Saturation Visible on Aerial Imagery, Saturation, and Geomorphic Position are present. The adjacent upland (DP #18) is the cropped field displaying a healthy corn crop with no evidence of stress, yellowing, or drowned-out conditions. A small portion of the wooded area bordering Wetland F to the south (DP #20) is a lowland hardwood forest. The WWI shows a T3K mapped on the property to the south of the subject property but a small portion of this complex is present within the subject property boundaries. It is dominated by silver maple in the tree stratum; silver maple and common buckthorn in the sapling/shrub stratum; and reed canary grass in the herbaceous stratum. Soils meet the F3, F6, and A11 indicators and hydrology indicators of Geomorphic Position and the FAC-Neutral Test are present. See Photo G.

Additional Data Points

DP #12 (Area 7 on the FSA slide review) was taken in a mapped upland area on the NRCS map but did display 3 hits out of 10 years. The field inspection revealed that a healthy corn crop was present with no evidence of stress, yellowing, or drowned-out conditions. Neither soil nor hydrology indicators are present.

Precipitation Data

Precipitation data from the websites of the USDA Natural Resource Conservation Service, the National Oceanic and Atmospheric Administration (NOAA), and Burlington WETS station WI1205 was examined. This antecedent data was reviewed and considered while making determinations concerning the presence and/or absence of wetlands during the field investigation.

Because the antecedent precipitation was normal, direct observation of saturated soils, and even the possibility of standing water, was potentially anticipated, although not expected. Other primary indicators as well as the secondary indicators were also searched for.

Note that when a site is delineated in the first half of the month, the previous 3 months are taken into consideration.

Condition Value Dry = 1 Normal = 2 Wet = 3

	Month	Normal	3 yrs. In 10 less than	3 yrs. In 10 more than	Observed precip.	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1 st prior month 2nd prior	May	3.14	2.06	3.76	5.47	wet	3	3	9
month 3rd prior	April	3.69	2.55	4.40	3.13	normal	2	2	4
month	March	2.30 If sum	1.34	2.80	0.85	dry	1	1 sum	1 14
		is 6 - 9 10 - 14	drier that normal	n normal					

15 - 18 wetter than normal

Conclusion

Antecedent precipitation was normal.

Conclusion

The wetland lines staked in the field and referred to in this report are the best estimate of the wetland boundaries based on the conditions present at the time of delineation. The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers, state regulation under the jurisdiction of Wisconsin DNR, and local jurisdiction under your local county, town, city, or village. Because this delineation was conducted by Mr. Meyer, an Assured Delineator, obtaining a concurrence letter from the Wisconsin Department of Natural Resources is not necessary. Concurrence with these wetland lines by the U.S. Army Corps of Engineers, however, must be obtained before undertaking any alterations or modifications of this property. Activities affecting wetlands or surface waters may require permits from the U.S. Army Corps of Engineers, the Wisconsin Department of

Natural Resources, and local municipal authorities. The client must obtain authorization from all proper regulatory authorities before altering, modifying, or using the property. If the required authorizations are not obtained, Wetland & Waterway Consulting, LLC shall not be liable or responsible for any resulting damages.

Sincerely,

My-Dave Meyer

Attachments

- 1. Data points
- 2. Soil Survey maps
- 3. Wisconsin Wetland Inventory map
- 4. USGS topo map
- 5. Location map
- 6. Site photographs
- 7. FSA slide review
- 8. Literature cited
- 9. Delineation checklist
- 10. Wetland boundary map

Project/Site: $ST/H 3G$ Applicant/Owner: Investigator(s): $MPML$ (her Finil Ci Landform (hillsfope, terrace, etc.): $MIIISI pe$ Slope (%): $Lat:$, $MIIIII pe$ Soil Map Unit Name AIB Kum Silty Clay (Sam A+) Are climatic/hydrologic conditions of the site typical for this time of the year Are vegetation , soil N, or hydrology N significan Are vegetation N, soil N, or hydrology N naturally (If needed, explain any answers in remarks)	State: MI Sampling Point: $H/U/^{2}$ Section, Township, Range: $ec/T3MR19E$ Section, Township, Range: $ec/T3MR19E$ Sec. 36 TYN R19E Decal relief (concave, convex, none): CONVEX Datum: H NWI Classification: $MONENWI Classification: MONEIn Gcc reform (If no, explain in remarks)thy disturbed? Are "normal$
Hydric soil present? Indicators of wetland hydrology present? // If yes, optiona	al wetland site ID:
Remarks: (Explain alternative procedures here or in a separate report.) DP located in mapped PC area. Area. This area of cropped field is actually	1 on FSA slide review. In a hillslope, Hydric suils are mot present.
HYDROLOGY	/
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1 Sediment Deposits (B2) Oxidized Rhizospheres on Drift Deposits (B3) Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron Iron Deposits (B5) Recent Iron Reduction in T Inundation Visible on Aerial Soils (C6) Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Other (Explain in Remarks)	Image Patterns (B10) Moss Trim Lines (B16)) Dry-Season Water Table (C2) Living Crayfish Burrows (C8)
Field Observations: Surface water present? Yes No Depth (inchest of the second	s): wetland hydrology present?
Remarks:	

	Jse scientific name					50/20 Thresholds
ree Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	20% 50% Tree Stratum
	•				<u></u>	Sapling/Shrub Stratum
						Woody Vine Stratum
						Dominance Test Worksheet
						Number of Dominant Species that are OBL,
						FACW, or FAC:
						Total Number of Dominant
				- Total Cover		Species Across all Strata: / (B)
			··································			Percent of Dominant Species that are OBL, \frown
pling/Shrub Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:
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<u></u>				. <u></u>		Total % Cover of:
						OBL species x1 =
						FACW species x 2 = FAC species x 3 =
					******	FAC species x 3 =
						UPL species x 5 =
						Column totals (A) (B) Prevalence Index = B/A =
			. <u></u>	= Total Cover		
						Hydrophytic Vegetation Indicators:
erb Stratum	Plot Size ()	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
TAKANAG	un officin	ale	% Cover	Species	Status	Dominance test is >50% Prevalence index is ≤3.0*
TUTANAC			<u> </u>		racq-	Morphogical adaptations* (provide
						supporting data in Remarks or on a
****	<u></u>					separate sheet) Problematic hydrophytic vegetation*
			<u></u>			(explain)
				·····		*Indicators of hydric soil and wetland hydrology must be
						present, unless disturbed or problematic
						Definitions of Vegetation Strata:
						Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
					****	Sapling/shrub - Woody plants less than 3 in. DBH and
			=	= Total Cover		greater than 3.28 ft (1 m) tall.
						Herb - All herbaceous (non-woody) plants, regardless of
Voody Vine	Plot Size ()	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum		·	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
	· · · · · · · · · · · · · · · · · · ·					
-						
· · · · · · · · · · · · · · · · · · ·	***					Hydrophytic
				= Total Cover	·	vegetation X
narks: (Include j	photo numbers here o	r on a sep	arate sheet)			
Field h	iad corn s	tub	ble pr	sent-	nom o	2017 season. Just recen
an nl	antal at.	Har -	time .	+ deli	heatis	h.
rr 10 11 16	INICIA LO	10 C				

SOIL							S	ampling Point: /	
Profile Des	cription: (Descri	ibe to th	e depth needed	to docum	nent the	indicate	or or confirm the absend	ce of indicators.)	
Depth (Inches)	Matrix Color (moist)	%		lox Featu %		Loc**	Texture	Remarks	
0-4	10-112 4/2	700					silf luan		
4-13	107124/4	100					Silf-lugn		
/3-20	107125/4	/60					silt logn		
	Concentration, D PL=Pore Lining			ed Matrix	, CS=C	overed	or Coated Sand Grains		
	I Indicators:						Indicators for Pro	blematic Hydric Solls:	
Bla Hy Str Thi Sa 140	stic Epipedon (A2 ack Histic (A3) drogen Sulfide (/ atified Layers (A pleted Below Da ick Dark Surface ndy Mucky Mine ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) (9B) of hydrophytic v	A4) 5) (A12) ral (S1) ix (S4)) (LRR R,		B) (LRR F n Dark S R R, ML amy Muck RR K, L) amy Gley pleted Ma dox Dark pleted Da dox Dark pleted Da dox Depr	urface (RA 145 ky Mine ed Mati atrix (F3 Surfac ark Surf ressions	(S9) B ral (F1) rix (F2) 3) e (F6) ace (F7) 5 (F8)	5 cm Mucky Pe Dark Surface (Polyvalue Belo Thin Dark Surf Iron-Manganes Piedmont Floo Mesic Spodic (Red Parent Ma	w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) ae Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (TF2) Dark Surface (TF12) in Remarks)	
Restrictive Type: Depth (incl	Layer (if observe	ed):					Hydric soil prese	nt? <u>//</u>	
Remarks:									

Are vegetation \underline{Y} , soil \underline{N} , c	Image: Contract of the search of the sear	NWI Classification: + (If no, explain in remarks) d? Are "normal
SUMMARY OF FINDINGS		······
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present?	M Is the sampled area with M If yes, optional wetland s	ite ID:
DP/UCLTED in Mcp D/GLTED Drive to d	pel PC Greg, Field eliheatim	just recently had been
HYDROLOGY		
Primary Indicators (minimum of one is req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4)
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe) Describe recorded data (stream gauge, m	No Depth (inches): No Depth (inches): No Depth (inches): Depth (inches):	Indicators of wetland hydrology present? // ections), if available:
Remarks:		

						50/20 Thresholds		
ree Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Tree Stratum	20% 5	50%
						Sapling/Shrub Stratum		
						Herb Stratum	1	l
						Woody Vine Stratum	•	
						Dominance Test Worksh	eet	
						Number of Dominant		
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						Hydrophytic Vegetation		
lerb Stratum	Plot Size ()	Absolute	Dominant	Indicator Status	Rapid test for hydroph Dominance test is >50		tion
Taylor	un Mili	nale	% <u>Cover</u>	Species		Prevalence index is \$		
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						supporting data in Rei		
MACHI	CALUTA			$ \ge $	TAPE	separate sheet)		
-				<u></u>		Problematic hydrophy	lic vegetati	on*
					······	(explain)		
						*Indicators of hydric soil and wet present, unless disturbed or prot		y mu
						Definitions of Vegetation	- Ofento.	
						Tree - Wcody plants 3 in. (7.6 cr breast height (DBH), regardless	 a) or more in (of height, 	diam
<u></u>					*****	Sapling/shrub - Woody plants lo		neu
						greater than 3.28 ft (1 m) tall.	33 UILI 0 III.	0011
				= Total Cover		Herb - All herbaceous (non-woo	dv) plants rer	oandie
Moody Marc			/ Abaaluta	Dominant	Indicator	size, and woody plants less than		Jurun
Woody Vine Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Woody vines - All woody vines	neantar than 1	1 20 4
						height.	greater than 5	.20 1
<u></u>			······			Hydrophytic		
<u></u>		·····		= Total Cover		present?		
norther discrimination	hata						-	
• •	hoto numbers here or	•	•		. 12	-		
DEL C	tabble	Drere	nf th	on 2	1017 S	ChSDh.		
JUN 3	,,		- • •		, -			

SOIL							Sar	mpling Point: 2
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the absence	of indicators.)
Depth	Matrix		Red	lox Feat	ures		Texture	Remarks
(Inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type*	Loc**		
0-6	10-IR 3/2	1100					Siltloam	
~ ~	1. 1. 21.							
10-15	10/R 3/2	80					sild logn	
	104/2/2	20					Silf lugn	
15-20	VUIR2/1	100	10423/6	2	C	M	Silt loan	
	· · · · · · · · · · · · · · · · · · ·		/					
			<u> </u>					
*Type: C=0	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	I x, CS=C	overed o	I I I I I I I I I I I I I I I I I I I	
	PL=Pore Lining	, M=Ma	trix					
Hydric So	il Indicators:						Indicators for Prob	lematic Hydric Solls:
De Th Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	atified Layers (A pleted Below Da lck Dark Surface ndy Mucky Mine ndy Gleyed Matr ndy Redox (S5) ipped Matrix (S6 rrk Surface (S7) 9B) of hydrophytic v	irk Sufac (A12) ral (S1) ix (S4) i) (LRR R,	ce (A11) (LF Los Dej Red Dej Red Red	RR K, L) amy Gle pleted N dox Dari pleted D dox Dep	yed Mati latrix (F3 k Surfac park Surf pressions	rix (F2) 3) e (F6) face (F7) s (F8)	Thin Dark Surface Iron-Manganese Piedmont Flood Mesic Spodic (T Red Parent Mate	v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R) blain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (TF2) ark Surface (TF12) h Remarks)
Type: Depth (incl					-		Hydric soil presen	
Pemarks: Di Pesi to t	hble n it of e he nor	nctr ?ros PL	ix From	n 0 5;	-15 J.m	, J.	Applans to from higher	be the elevation

Slope (%): <u>7 jat.</u> Soil Map Unit Name <u>Ash Lung Ji</u> Are climatic/hydrologic conditions of the site Are vegetation <u>7</u> soil <u>M</u> , or	Long.: Dash Local relief (conca Long.: Datum: The Classic Datum Nature The Classic Datum Nature The Classic Datum Nature Nature Nature Nydrology <u>Itl</u> naturally problematic?	WI Classification:
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present?	Is the sampled area within a Is the sampled area within a If yes, optional wetland site IE	(
Remarks; (Explain alternative procedures h	ere or in a separate report.)	Tel alil and
DP located in mappe	PLANG, ARA 20	2 FJASIISE PEVICW
This purtion of the Field	l is tarmed in driver year	rs. FSA slibe review 1. ToutoFID hits on the
HYDROLOGY Wetland	A	FSA slide review
	S	econdary Indicators (minimum of two
Primary Indicators (minimum of one is requ		equired)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3) Algal Mat or Crust (B4)	Roots (C3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)	-	Microtopographic Relief (D4)
Field Observations:	<i>I</i>	
Surface water present? Yes Water table present? Yes	No Depth (inches):	Indicators of wetland
Saturation present? Yes	No Depth (inches):	hydrology
(includes capillary fringe)		present?
Describe recorded data (stream gauge mo	nitoring well, aerial photos, previous inspectior	hs) if available:
Remarks:		

						50/20 Thresholds
ree Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	20% 50% Tree Stratum Septing (Chrish Stratum
······································						Herb Stratum 2 Woody Vine Stratum
						Dominance Test Worksheet Number of Dominant
					·····	Species that are OBL, FACW, or FAC: (A)
						Total Number of Dominant (B
				Total Cover		Percent of Dominant
apling/Shrub Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC:
	······					Prevalence Index Worksheet Total % Cover of:
						OBL species x 1 = FACW species x 2 =
						FAC species x 3 = FACU species x 4 =
						UPL speciesx 5 =
						Column totals (A) (E Prevalence Index = B/A =
				Total Cover	·	Hydrophytic Vegetation Indicators:
lerb Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Bapid test for hydrophytic vegetation Dominance test is >50%
Ligeron	anhunj		_2		FALM	Prevalence index is ≤3.0* Morphogical adaptations* (provide
Solidago	Siganten		20	\leq	FALW	supporting data in Remarks or on a separate sheet)
Rumex	Crispus		5		FAL	Problematic hydrophytic vegetation* (explain)
are + 5	Tricta		30	$ \ge$	DIL	*Indicators of hydric soil and wetland hydrology mu present, unless disturbed or problematic
Phalanis	arundinac	16	15		FALL	Definitions of Vegetation Strata:
Jeronici	6 Perecrina		10		FAL	Tree - Woody plants 3 in. (7.6 cm) or more in diam
<u>Geum C</u>	ana cenie	·····	2		FAC	breast height (DBH), regardless of height.
Tarakha	am uticing	10	-10-	= Total Cover	FACL	Sapling/shrub - Woody plants less than 3 in. DBH greater than 3.28 ft (1 m) tail.
Voody Vine			Absolute	Dominant	Indicator	Herb - All herbaceous (non-woody) plants, regardle size, and woody plants less than 3.28 ft tall.
Stratum	Plot Size ()	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 f height.
			·····			
				= Total Cover		Hydrophytic vegetation present?
narks: (Include p	the blace of	on a sep	arate sheet)	mat	least	2 SEGSONS 17
Jorn S				- 11		

SOIL						- <u></u>	Sa	mpling Point: J
Profile Des	cription: (Descr	ibe to th	ne depth needed	to docu	ument the	e indicate	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)			lox Fea %		Loc**	Texture	Remarks
(incres)				<u></u>	Type			
0-6	10423/1	95	NYRSJ3	5	C	M	Silf Tuana	
	· · · · · · · · · · · · · · · · · · ·	 	/					······································
6-16	TUYR 2/1	95	10-17 3/6	5	C	m	Silf luam	
			/					
16-20	N-124/1	65	1047556	-	+	12	Clay luam	
10 av		93	1/1/1/6	3	+		C/46 / 00/00/	·····
*Type: C=0	L Concentration, D	l =Deple	L tion, RM=Reduce	l ed Matri	ix, CS=C	overed o	or Coated Sand Grains	
**Location:	PL=Pore Lining							
Hydric Sol	I Indicators:						Indicators for Prob	elematic Hydric Soils:
Bla Hy De Thi Sa Sa Sa Sa 14/ *Indicators		A4) 5) rk Sufa (A12) ral (S1) ix (S4)) (LRR R egetatio	— Thi — (LF Loa — Loa — De — De — Re , MLRA	n Dark RR R, M amy Mu RR K, L amy Gle pleted M dox Dar pleted D dox Dep	eyed Mat Matrix (F3 rk Surfac Dark Surf Dressions	(S9) BB rix (F2) 3) e (F6) ace (F7) s (F8)	5 cm Mucky Pea Dark Surface (S Polyvalue Below Thin Dark Surfa Iron-Manganese Piedmont Flood Mesic Spodic (T Red Parent Mat	v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) 766) (MLRA 144A, 145, 149B) erial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (incl	Layer (if observenes):	ed): 			_		Hydric soil preser	nt? <u>1</u>
Remarks:								

Landform (hillslope, terrace, etc.):	Image: Construction Local relief (Image: Construction Date Image: Constret Date	NWI Classification: Northe H(If no, explain in remarks) d? Are "normal
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present?	𝔄 Is the sampled area with 𝔄 𝔄 𝔄 𝔄 𝔄 𝔄 𝔄 𝔄 𝔄 𝔄 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅	
Remarks: (Explain alternative procedures		
DP located in mappe	d PCarea, Fieldh	adjust been recently
planted min to del.	hection	4
HYDROLOGY		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ		required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Drift Deposits (B3)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Algal Mat or Crust (B4)	Roots (C3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery
Iron Deposits (B5)	Recent Iron Reduction in Tilled	(C9) Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No Depth (inches):	Indicators of
Water table present? Yes	No Depth (inches):	wetland
Saturation present? Yes	No Depth (inches):	hydrology
(includes capillary fringe)		present? <u>/</u>
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous insp	ections), if available:
Remarks: Mis portion of the	he field remains e	effectively citained

						50/20 Thresholds
ree Stratum	Plot Size ()	Absolute	Dominant	Indicator	20% 50%
		,	% Cover	Species	Status	Tree Stratum
						Sapling/Shrub Stratum Herb Stratum 2
	······					Woody Vine Stratum
						Dominance Test Worksheet
						Number of Dominant
					·····	Species that are OBL,
						FACW, or FAC:
						Total Number of Dominant
						Species Across all Strata: (B)
				Total Cover		Percent of Dominant
						Species that are OBL,
apling/Shrub	Diat Size /	、	Absolute	Dominant	Indicator	FACW, or FAC: O (A
Stratum	Plot Size ()	% Cover	Species	Status	
					Prevalence Index Worksheet	
		****		4		Total % Cover of:
• • • • • • • • • • • • • • • • • • • •			·····	·····		OBL species x1 =
					,	FACW species x 2 =
				<u></u>		FAC species x 3 =
						FACU species x 4 =
						UPL species x 5 =
						Column totals (A) (B
						Prevalence Index = B/A =
				 Total Cover 		
			A.L			Hydrophytic Vegetation Indicators:
erb Stratum	Piot Size ()	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
TALLAR	in Afficina	10	% Gover	Species	Status	Dominance test is >50%
Theaxall	In STTILINA	<u> </u>			FACLA	Prevalence index is <3.0*
						Morphogical adaptations* (provide
T Burry	10 str				12721-	supporting data in Remarks or on a separate sheet)
(MINCH]	CARDTE		_		VILL	Problematic hydrophytic vegetation*
						(explain)
	·····					
						*Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic
				·····		Definitions of Vegetation Strata:
						Tree - Woody plants 3 in. (7.6 cm) or more in diame breast height (DBH), regardless of height.
						bloast height (bbil), regulatess of height.
						Sapling/shrub - Woody plants less than 3 in. DBH
			- 4	Telel O	<u> </u>	greater than 3.28 ft (1 m) tall.
			·	= Total Cover		Herb - All herbaceous (non-woody) plants, regardle
Voody Vine			Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tail.
Stratum	Plot Size ()	% Cover	Species	Status	
			10 00461	000000	Julio	Woody vines - All woody vines greater than 3.28 ft height.
						
						Hydrophytic
						vegetation)
				- Total Cover		present?
narks: (Include pl	hoto numbers here or	on a sepa	arate sheet)			

SOIL							Sa	mpling Point:
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicato	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%		dox Feal %	tures		Texture	Remarks
U-4	INR 2/2	100		70	Type*		Siltloan	
<u></u>	104122/2	17	104R513		С	m	Cite hours	
7-71	10 11 2/2	27	10mes/s	17	<u> </u>	<u> </u>	Silt luam	
11-14	VOUR 3/2	95	104R4/6	5	c	M	Silf Joan	
14-20	10425/1	90	107R4/G	10	C.	M	Clay loam	
*Type: C=(**Location:	Concentration, D	=Deplet M=Mat	ion, RM=Reduce	ed Matri	x, CS=C	overed o	or Coated Sand Grains	
	il Indicators:	100 000				·····	Indicators for Prot	plematic Hydric Solis:
Bla Hy De Th Sa Sa	atic Epipedon (A2 ack Histic (A3) drogen Sulfide (/ atified Layers (A pleted Below Da ick Dark Surface ndy Mucky Mine ndy Gleyed Matr ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) (9B) of hydrophytic v	A4) 5) rk Sufac (A12) ral (S1) ix (S4)) (LRR R,	Thi (LF Los Los De Re De Re Re	n Dark S RR R, M amy Muc RR K, L) amy Gle pleted M dox Dari pleted D dox Dep	Surface LRA 14 cky Mine yed Mat Matrix (F: k Surfac Dark Suri pression:	9 B rix (F2) 3) e (F6) face (F7) s (F8)	5 cm Mucky Per Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganese Piedmont Flood Mesic Spodic (T Red Parent Mat	v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) 9 Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 1498) 7A6) (MLRA 144A, 145, 1498) erial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (incl	Layer (if observenter):	ed):			-		Hydric soil preser	nt?
Remarks:					1981-191 - 2 o Madramo			

Landform (hillstope, terrace, etc.): denusing bain Local relief	MIT Sampling Point: # Swet , Township, Range: Sec T3A R 19E Sec, 36 T4N R 19E (concave, convex, none): CMC6 ve um:
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Hydric soil present? Hydric soil present? Hydrophytic vegetation present pre	site ID:
Remarks: (Explain alternative procedures here or in a separate report) DP / UCGJED in Mappel PC Greg, This Greg Farmed since at least 2000, GLI has teve	however has not been exted to wetland, wetland A.
HYDROLOGY ARC 3 ON FSA slide review.	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Drift Deposits (B3) Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Inundation Visible on Aerial Soils (C6) Imagery (B7) Thin Muck Surface (C7) Surface (B8) Other (Explain in Remarks) Field Observations: Field Observations:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4)
Surface water present? Yes No Depth (inches): Water table present? Yes No Depth (inches): Saturation present? Yes No Depth (inches): (includes capillary fringe) Yes No Depth (inches): Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspective)	Indicators of wetland hydrology present? pections), if available:
Remarks:	

	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 20% 50% Sapling/Shrub Stratum 1 Herb Stratum 2 Woody Vine Stratum 2 Dominance Test Worksheet 1 Number of Dominant Species that are OBL,
) % Cover	Species		Tree Stratum I Sapling/Shrub Stratum I Herb Stratum 2 Woody Vine Stratum 2 Dominance Test Worksheet Number of Dominant Species that are OBL, 2
			Sapling/Shrub Stratum 1 Herb Stratum 2 Woody Vine Stratum 2 Dominance Test Worksheet 2 Number of Dominant 5 Species that are OBL, 2
			Herb Stratum 2 Woody Vine Stratum Dominance Test Worksheet Number of Dominant Species that are OBL, 2
			Dominance Test Worksheet Number of Dominant Species that are OBL,
			Number of Dominant Species that are OBL,
			Number of Dominant Species that are OBL,
			Species that are OBL,
			FACW, or FAC:
	-		Total Number of Dominant 7
	T 1 1 0		Species Across all Strata:(B)
	 Total Cover 		Percent of Dominant
			Species that are OBL,
) Absolute	Dominant	Indicator	FACW, or FAC: 66 (A/
' % Cover	Species	Status	
		FACW	Prevalence index Worksheet
			Total % Cover of:
			OBL speciesx 1 =
			FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column totals (A) (B)
			Prevalence Index = B/A =
10	= Total Cover		
Abaabda	Deminant	Indiantar	Hydrophytic Vegetation Indicators:
1			Rapid test for hydrophytic vegetation
% Cover	Shacies		Dominance test is >50% Prevalence index is ≤3.0*
		1-10-100	Morphogical adaptations* (provide
		TELEIN	supporting data in Remarks or on a
	<u></u>	1 in w	supporting data in Remarks of on a separate sheet)
	·	FATA	Problematic hydrophytic vegetation*
			(explain)
un 10		T-AC.	*Indicators of hydric soil and wetland hydrology must
			present, unless disturbed or problematic
- 7		TAC	
			Definitions of Vegetation Strata:
.30		1-BEG	Tena Weadu algebra 0 in /7.0 and a second in //
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
- 70		1-1264	
			Sapling/shrub - Woody plants less than 3 in. DBH a
T		FAC	greater than 3.28 ft (1 m) tail.
135	= Total Cover		Herb - All herbaceous (non-woody) plants, regardles:
			size, and woody plants less than 3.28 ft tail.
1			
· % Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft h
			height.
	<u> </u>	<u> </u>	}
			Hydrophytic)
	<u></u>		vegetation
	= Total Cover		present?
			<u> </u>
) Absolute % Cover 5 0 75 75 75 75 75 75 75 75 75 75 75 75 75) % Caver Species D Species	$\frac{1}{2} = Total Cover$

SOIL							Sa	mpling Point: 5
Profile Des	cription: (Descri	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the absenc	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%		lox Feat %		Loc**	Texture	Remarks
(inches)		<u> </u>		70	l î î î î î î î î î î î î î î î î î î î	100		
6-8	112 3/10	95	10th 5/3	Ĩ.	C	M	Silf loam	
			/					
8-20	254511	80	124124/6	25	C	m	Clay logn	
	, <i>p</i>		/					
*Type: C=0	L Concentration, D	I =Deplet	I ion, RM=Reduce	l ed Matrix	I x, CS=C	overed o	or Coated Sand Grains	
**Location:	PL=Pore Lining							
Hydric So	Il Indicators:						Indicators for Prol	blematic Hydric Solls:
Hy De Th Sa Sa Sa 14 *Indicators		5) rk Sufac (A12) ral (S1) ix (S4) i) (LRR R,	Loa Ce (A11)(LF Loa De Rea Rea Rea	R R, Mi amy Muc R K, L) amy Gle pleted N dox Dari pleted D dox Dep	yed Mati latrix (F3 k Surfac park Surf pressions	9 B rix (F2) 3) e (F6) ace (F7) s (F8)	5 cm Mucky Pe Dark Surface (S Polyvalue Below Thin Dark Surfa Iron-Manganes Piedmont Flood Mesic Spodic (Red Parent Ma	w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) Iplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (TF2) ark Surface (TF12) in Remarks)
Restrictive Type: Depth (incl	Layer (if observe	ed):			-		Hydric soil prese	nt?
Remarks:								

	bills/lupc Local relief Long.: Dat DAM Dag DAM Dag OAM Dag Open control Dag Image: Second control Dag Long.: Dag Dam Dag Open control Dag Image: Second contrelet <t< th=""><th>NWI Classification: <u>NOME</u> yr +(If no, explain in remarks) ed? Are "normal V</th><th>R 19E</th></t<>	NWI Classification: <u>NOME</u> yr +(If no, explain in remarks) ed? Are "normal V	R 19E				
SUMMARY OF FINDINGS							
Hydrophytic vegetation present? Is the sampled area within a wetland? Iv Hydric soil present? If yes, optional wetland site ID: Iv Indicators of wetland hydrology present? If yes, optional wetland site ID: Iv Remarks: (Explain alternative procedures here or in a separate report.) Iv Iv							
Remarks. (Explain alternative procedures i	iere of in a separate report.						
HYDROLOGY							
		Secondary Indicators (minimum of two					
Primary Indicators (minimum of one is requ	ired; check all that apply)	required)					
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)					
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)					
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)					
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery					
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9) Sturted or Streeged Plante (D1)					
Iron Deposits (B5) Inundation Visible on Aerial	Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)					
imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)					
Surface (B8)		Microtopographic Relief (D4)					

Surface water present? Water table present?	Yes Yes	No	Depth (inches):	indicators of wetland
Saturation present? (includes capillary fringe)	Yes	No	Depth (inches):	hydrology present?

VEGETATION - Use scientific names of plant	s			Sampling Point:
				50/20 Thresholds
Tree Stratum Plot Size () 1 <u>PV4n4s</u> Setotika 2 3 <u>FVANA INUS</u> <u>PLANALIVANICA</u>	Absolute % Cover	Dominant Species	Indicator Status I-J(U I-A(W	20%50%Tree Stratum/Sapling/Shrub StratumZHerb StratumZWoody Vine StratumZ
sCarya Ovata ⁶ 7 Acer neigndo 9 10	<u> </u>		FACU FAC	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across all Strata: Percent of Dominant
Sapling/Shrub Plot Size () Stratum 1 1 Phamphus Cathartica	Absolute % Cover	Dominant Species	Indicator Status TFA C	Species that are OBL, FACW, or FAC: <u>57</u> (A/B) Prevalence index Worksheet
³ Corphs rale mosa ⁴ ⁵ Lonicere + bella ⁷ ⁸	75 75		<u>FAC</u> FAC	Total % Cover of: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) OBL CBL
9 10 Herb Stratum Plot Size ()	Absolute	Dominant	Indicator	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation
Asrimonia Styposepala	% Cover	Species	Status T-ACG T-ACG	∠Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
Branny Cotherfice	70		FALD	(explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata:
11 12 13 14 15				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size () Stratum 1	Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
2 3 4 5		Total Cover		Hydrophytic vegetation present?
Remarks: (Include photo numbers here or on a sepa	arate sheet)			

SOIL							Sa	mpling Point:
Profile Des	cription: (Descri	ibe to the	e denth needed t	to docun	nent the	indicate	or or confirm the absence	e of indicators)
Depth	Matrix			ox Feat			Texture	Remarks
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**		
10-11	1117 37	700					Siltloan	
	10 11 Core	1.00						
							4.4.1	
11-20	NIRS/3	100					SILTIDAM	
20-24	INVD Cta	60					clay loam	
00 01	10/103/2						CINY LOUPH	
	NTRYLY	40					- 1	
	/ '							
ATURAL C-C	Concentration D	Denieti	an DM-Daduas	d Mateix			or Coated Sand Grains	
	PL=Pore Lining			ia iviatrix	(, 65=6	overea c	or Coated Sand Grains	
Hydric Sol	I Indicators:						Indicators for Prol	plematic Hydric Solls:
His Bla Str De Thi Sa Sa Sa Sa Sa Str Da	titisol (A1) titic Epipedon (A2 ick Histic (A3) drogen Sulfide (A atified Layers (A pleted Below Da ick Dark Surface ndy Mucky Mine ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) B) of hydrophytic v	A4) 5) rk Sufac (A12) ral (S1) ix (S4) i) (LRR R,	(S8) Thir (LR Loa e (A11) (LR Loa Dep Rec Dep Rec Rec	h Dark S R R, ML Imy Muc R K, L) Imy Gley bleted M dox Dark bleted D dox Depi	R, MLR/ Surface (RA 148 ky Mine yed Matt atrix (F3 surfac ark Surfac ark Surfac	A 149B) (S9) DB rral (F1) rix (F2) 3) e (F6) e (F6) 5 (F8)	Coast Prairie R 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganes Piedmont Flood Mesic Spodic (Red Parent Mat	w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) Iplain Soils (F19) (MLRA 149B) FA6) (MLRA 144A, 145, 149B) terial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (incl	Layer (if observenters):	ed):					Hydric soil prese	nt? <u>//</u>
Remarks:	Donble	bnc	triz Fo	m	20	-)	Y "	

Slope (%): Super Charles Lat.: Soil Map Unit Name Houch Ton Are climatic/hydrologic conditions of the site Are vegetation N, soil N, or	Angle (1) (h c) Das (1) Local relief (c) Long.:	NWI Classification: For H H(If no, explain in remarks) Are "normal
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures h	Y Is the sampled area with Y If yes, optional wetland since ere or in a separate report.)	
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ		required)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	eomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	PAC-Neutral Test (D5) Microtopographic Relief (D4)
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): No Depth (inches): No Depth (inches):	Indicators of wetland cchydrology present?
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:		

) %(solute Cover solute Cover / J solute Cover / J solute Cover / J	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 1 Sapling/Shrub Stratum 1 Herb Stratum 1 Woody Vine Stratum 1 Dominance Test Worksheet 1 Number of Dominant Species that are OBL, FACW, or FAC: (A) Total Number of Dominant (B) Percent of Dominant (B) Percent of Dominant (A/B) Percent of Dominant (A/B) Percent of Dominant (A/B) Prevalence Index Worksheet (A/B) Prevalence Index Worksheet (A/B) Prevalence Index Worksheet (A/B) Prevalence Index Secies $x 1 =$ FACW species $x 2 =$ FAC species $x 3 =$ FACU species $x 5 =$ Column totals (A) Prevalence Index = $B/A =$ (B) Prevalence Index = $B/A =$ (B) Prevalence Index is $<3.0^{\circ}$ (Provide supporting data in Remarks or on a
) % (Cover	Species	Status	Tree Stratum Sapling/Shrub StratumIHerb StratumIHerb StratumIWoody Vine StratumIDominance Test WorksheetNumber of Dominant Species that are OBL, FACW, or FAC:IFACW, or FAC:ITotal Number of Dominant Species Across all Strata:ISpecies Across all Strata:IPercent of Dominant Species that are OBL, FACW, or FAC:IPrevalence Index WorksheetITotal % Cover of: OBL speciesX 1 =FACW speciesX 2 =FAC speciesX 3 =FACU speciesX 4 =UPL speciesX 5 =Column totals(A)Prevalence Index = B/A =Hydrophytic Vegetation Indicators: Dominance test is >50% Prevalence index is $\leq 3.0^{\circ}$ Morphogical adaptations* (provide
) Ab % 	solute Cover Cover	Total Cover Dominant Species	Indicator Status J-A-C J-A-C	Sapling/Shrub Stratum I Herb Stratum I Woody Vine Stratum I Dominance Test Worksheet Number of Dominant Species that are OBL, J FACW, or FAC: J Total Number of Dominant Species that are OBL, Species Across all Strata: J Percent of Dominant Species that are OBL, FACW, or FAC: IO D Percent of Dominant Species that are OBL, FACW, or FAC: IO D Prevalence index Worksheet Total % Cover of: OBL species x1 = FACW species x2 = FAC species x3 = FACU species x4 = UPL species x5 = Column totals (A) Prevalence Index = B/A = IB) Prevalence index is <50%
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Herb Stratum I Woody Vine Stratum I Dominance Test Worksheet Number of Dominant Species that are OBL, J FACW, or FAC: J Total Number of Dominant J Species Across all Strata: J Percent of Dominant J Species that are OBL, FACW, or FAC: FACW, or FAC: IO D Prevalence Index Worksheet Total % Cover of: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = B) Prevalence Index is >50% Prevalence index is \$3.0° Morphogical adaptations* (provide Morphogical adaptations*
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Woody Vine Stratum Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across all Strata: B Percent of Dominant Species that are OBL, FACW, or FAC: More that are OBL, FACW species X 2 = FACW species X 3 =
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across all Strata: B Percent of Dominant Species that are OBL, FACW, or FAC: CB Percent of Dominant Species that are OBL, FACW, or FAC: CD (A/B) Prevalence index Worksheet Total % Cover of: OBL species X 2 = FACW species X 3 = FACU species X 4 = UPL species X 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Repdid test for hydrophytic vegetation Dominance test is >50% Prevalence index is \$3.0* Morphogical adaptations* (provide
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Number of Dominant Species that are OBL, FACW, or FAC: \mathcal{J} (A)Total Number of Dominant Species Across all Strata: \mathcal{J} (B)Percent of Dominant Species that are OBL, FACW, or FAC: \mathcal{J} (D)(A/B)Prevalence Index Worksheet Total % Cover of: OBL species $x 1 =$ FACW speciesPACW, or FAC: \mathcal{J} (D)(A/B)Prevalence Index Worksheet Total % Cover of: OBL species $x 1 =$ FACW speciesFACW species $x 2 =$ FAC speciesFACU species $x 3 =$ FACU speciesFACU species $x 5 =$ Column totals(A)(B) Prevalence Index = B/A =Hydrophytic Vegetation Indicators: Dominance test is >50% Prevalence index is $\leq 3.0^{\circ}$ Morphogical adaptations* (provide
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Number of Dominant Species that are OBL, FACW, or FAC: \mathcal{J} (A)Total Number of Dominant Species Across all Strata: \mathcal{J} (B)Percent of Dominant Species that are OBL, FACW, or FAC: \mathcal{J} (D)(A/B)Prevalence Index Worksheet Total % Cover of: OBL species $x 1 =$ FACW speciesPACW, or FAC: \mathcal{J} (D)(A/B)Prevalence Index Worksheet Total % Cover of: OBL species $x 1 =$ FACW speciesFACW species $x 2 =$ FAC speciesFACU species $x 3 =$ FACU speciesFACU species $x 5 =$ Column totals(A)(B) Prevalence Index = B/A =Hydrophytic Vegetation Indicators: Dominance test is >50% Prevalence index is $\leq 3.0^{\circ}$ Morphogical adaptations* (provide
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Species that are OBL, \overrightarrow{A} FACW, or FAC: \overrightarrow{A} Total Number of Dominant \overrightarrow{B} Species Across all Strata: \overrightarrow{B} Percent of Dominant \overrightarrow{B} Species that are OBL, \overrightarrow{A} FACW, or FAC: \cancel{D} Prevalence Index Worksheet \overrightarrow{A} Total % Cover of: \overrightarrow{B} OBL species $x 1 =$ FACW species $x 2 =$ FAC species $x 3 =$ FACU species $x 5 =$ Column totals (A) Prevalence Index = $B/A =$ Hydrophytic Vegetation Indicators: Baptid test for hydrophytic vegetation Dominance test is >50% Prevalence index is $\leq 3.0^{\circ}$ Morphogical adaptations* (provide
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	FACW, or FAC:(A)Total Number of Dominant(B)Species Across all Strata:(B)Percent of Dominant(B)Species that are OBL,(A/B)FACW, or FAC:(D)(A/B)Prevalence Index WorksheetTotal % Cover of:OBL species $x 1 =$ FACW species $x 2 =$ FAC species $x 3 =$ FACU species $x 5 =$ Column totals(A)Prevalence Index = B/A =Hydrophytic Vegetation Indicators:Baptid test for hydrophytic vegetationDominance test is >50%Prevalence index is $\leq 3.0^*$ Morphogical adaptations* (provide
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Total Number of Dominant
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Percent of Dominant Species that are OBL, FACW, or FAC: Prevalence Index Worksheet Total % Cover of: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Replid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	solute Cover S	Dominant Species	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Species that are OBL, FACW, or FAC: ////////////////////////////////////
) %		Species Total Cover Dominant	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Species that are OBL, Image: Constraint of the system FACW, or FAC: Image: Constraint of the system Prevalence index Worksheet Total % Cover of: OBL species OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Replid test for hydrophytic vegetation Dominance test is >50% Prevalence index is <3.0*
) %		Species Total Cover Dominant	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	FACW, or FAC: ////////////////////////////////////
) %		Species Total Cover Dominant	Status <u>T-A-C</u> <u>FA-C</u> Indicator Status	Prevalence index Worksheet Total % Cover of: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
, Ab	VS S D D Solute Cover	Total Cover	Indicator	Total % Cover of: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	solute Cover	Dominant		Total % Cover of: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	solute Cover	Dominant	Indicator	OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = (B) Hydrophytic Vegetation Indicators: Replid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide Morphogical adaptations*
) %	solute Cover	Dominant	Indicator	FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = (B) Hydrophytic Vegetation Indicators: Radid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide Morphogical adaptations*
) %	solute Cover	Dominant	Status	FAC species x 3 = FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = (B) Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	solute Cover	Dominant	Status	FACU species x 4 = UPL species x 5 = Column totals (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	solute Cover	Dominant	Status	UPL species x 5 = (B) Prevalence Index = B/A = (B) Prevalence Index = B/A = (B) Hydrophytic Vegetation Indicators: Reptid test for hydrophytic vegetation Dominance test is >50% Prevalence index is <3.0* Morphogical adaptations* (provide
) %	solute Cover	Dominant	Status	Column totals(A)(B) Prevalence Index = B/A =(B) Hydrophytic Vegetation Indicators:
) %	solute Cover	Dominant	Status	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
) %	solute Cover	Dominant	Status	Hydrophytic Vegetation Indicators:
) %	solute Cover	Dominant	Status	Barid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	solute Cover	Dominant	Status	Barid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	Cover		Status	Barid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide
) %	Cover		Status	
<u>ea 1</u> 	÷			Prevalence index is ≤3.0* Morphogical adaptations* (provide
			-13CW	Morphogical adaptations* (provide
				supporting data in Remarks or on a
				separate sheet)
				Problematic hydrophytic vegetation*
				(explain)
				*Indicators of hydric soil and wetland hydrology must be
				present, unless disturbed or problematic
				
				Definitions of Vegetation Strata:
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				breast height (DBH), regardless of height.
·		•••••	<u> </u>	
<u></u>			<u></u>	Sapling/shrub - Woody plants less than 3 in. DBH and
	<u>)</u>	Tatel Court		greater than 3.28 ft (1 m) tail.
	<u> </u>	- TOTAL COVEL		Herb - All herbaceous (non-woody) plants, regardless
A L	a a lut -	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
1				
70	Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
		- <u></u>		height.
			<u></u>	
			<u> </u>	
<u></u>				Hydrophytic
				vegetation
		 Total Cover 		present?
				<u> </u>
) Ab %) Absolute) % Cover	Absolute Dominant % Cover Species	Absolute Dominant Indicator % Cover Species Status

SOIL							Si	ampling Point: 7
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the absence	ce of indicators.)
Depth (Inches)	Matrix Color (moist)	%		lox Feat %		Loc**	Texture	Remarks
0-20	/vynali	100					Muck	
	/							
*Type: C=C	Concentration D:	=Denleti	on RM=Reduce	d Matrix		overed	r Coated Sand Grains	I
	PL=Pore Lining,				x, 03-0			
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric Soils:
Bla Hyn Stra Thi Saa Saa Saa Saa Daa Thi Daa Hyn Hyn	tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A pleted Below Da ck Dark Surface ndy Mucky Miner ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) (DB) of hydrophytic ve	44) 5) rk Sufac (A12) ral (S1) ix (S4)) LRR R,		n Dark S R R, Mil amy Muc R K, L) amy Gley bleted M dox Darl bleted D dox Dep	yed Mati latrix (F3 k Surfac vark Surf ressions	S9) ral (F1) fix (F2) 3) e (F6) ace (F7) 5 (F8)	5 cm Mucky Pe Dark Surface (Polyvalue Belo Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic (Red Parent Ma	w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) aterial (TF2) Dark Surface (TF12) in Remarks)
Restrictive Type: Depth (inch	Layer (if observe	ed):			-		Hydric soil prese	nt?
Remarks:								

Landform (hillslope, terface, etc.): <u>Jentessing (Dessh</u> Local relief (c Slope (%)): <u>Jentessing (Constructions)</u> Datum Soil Map Unit Name <u>Jentessing (Constructions)</u> Datum Are climatic/hydrologic conditions of the site typical for this time of the year? <u>Construction</u> Are vegetation <u>Ansistic (Constructions)</u> , soil <u>Ansistic (Constructions)</u> , soil <u>Ansistic (Constructions)</u> , or hydrology <u>Ansistic (Constructions)</u> , soil <u>Ansistic (Constructions)</u> , or hydrology <u>Ansistic (Constructions)</u> , soil <u>Ansistic (Constructions)</u> , or hydrology <u>Ansistic (Constructions)</u> , soil <u>Ansistic (Constructions)</u> , or hydrology <u>Ansistic (Constructions)</u> , soil (Constructions)	NWI Classification: <u>CAH</u> F(If no, explain in remarks) ? Are "normal
SUMMARY OF FINDINGS	
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Hydric soil present? If yes, optional wetland site	
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all that apply)	required)
Surface Water (A1)Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) Mari Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Drift Deposits (B3) Roots (C3)	Crayfish Burrows (C8)
Drift Deposits (B3) Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery
Iron Deposits (B5) Recent Iron Reduced Iron (C4)	(C9) Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C6)	Geomorphic Position (D2)
imagery (B7) Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)	Microtopographic Relief (D4)
Field Observations:	
Surface water present? Yes No Depth (inches):	Indicators of
Water table present? Yes No Depth (inches):	wetland
	hydrology V
(includes capillary fringe)	present?
Departing recorded date (attached equipe mentioning well and a shake and the	·
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspe-	
	ctions), if available:
	ctions), if available:

Remarks:

.

						50/20 Thresholds
Free Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	20% 50% Tree Stratum
					<u> </u>	Sapling/Shrub Stratum Herb Stratum
	·····					Woody Vine Stratum
						Dominance Test Worksheet
						Number of Dominant Species that are OBL,
					,	FACW, or FAC:
						Total Number of Dominant
						Species Across all Strata:(B)
				 Total Cover 		Percent of Dominant
anling/Shruh			Abaakuta	Dominant	Indicator	Species that are OBL, // O (A/E)
apling/Shrub Stratum	Plot Size ()	Absolute % Cover	Species	Status	FACW, or FAC: 1000 (A/E
ouddin			// 00101	opeolee	Oluluo	Prevalence index Worksheet
						Total % Cover of:
			·····			OBL species x1 =
						FACW species x 2 =
						FAC species x 3 =
						FACU species x 4 = UPL species x 5 =
						UPL species X 5 = Column totals (A) (B)
					<u> </u>	Prevalence Index = B/A =
			<u></u> :	 Total Cover 		
			Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators: Rapid-test for hydrophytic vegetation
lerb Stratum	Plot Size ()	%Cover	Species	Status	Dominance test is >50%
WARG GI	hillitolia		100		OBL	Prevalence index is ≤3.0*
	0					Morphogical adaptations* (provide
	J.					supporting data in Remarks or on a separate sheet)
thatari.	Grhhdinkee	6	-70-		FACH	Problematic hydrophytic vegetation*
1.1.				« <u></u>	<u></u>	(explain)
						"Indicators of hydric soil and wetland hydrology must
						present, unless disturbed or problematic
						Definitions of Vegetation Strata:
				·····		
						Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
						Sapling/shrub - Woody plants less than 3 in. DBH ar greater than 3.28 ft (1 m) tall.
			170	= Total Cover		
						Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tail.
Woody Vine	Plot Size ()	Absolute	Dominant	Indicator	
Stratum	•	•	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
						
						Hydrophytic)
						vegetation
				= Total Cover		present?
narks: (Include r	photo numbers here or		arate sheet)			<u>ا</u>

SOIL							Sa	mpling Point:		
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (Inches)	th Matrix Redox Featu			Loc**	Texture	Remarks				
0-8	JUYTLZII	100					Muck	****		
8-20	2.545/2	<u> 63</u>	10/1r.3/6	5	C.	M	Clay logm			
	Concentration, D PL=Pore Lining			ed Matri	x, CS=C	overed o	or Coated Sand Grains			
	I Indicators:						Indicators for Prot	blematic Hydric Solls:		
Bla Hy De De Thi Sa Sa Sa Sa Str Da	Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Polyvalue Below Surface (S7) (LRR K, L, R) Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (S7) (LRR R, MLRA Thin Remarks) Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic									
Туре:	Restrictive Layer (if observed): Type: Depth (inches):									
Remarks:										

Project/Site: $ST/H_3G_{Applicant/Owner: CityCounty: W_{L} [l_{F} - f_{UL}]_{Sampling Date:} G - f - f_{U} Applicant/Owner: State: W_{L} Sampling Point: H = 0 H = 0 Investigator(s): M_{P} M_{L} Me + fin_{H} f_{L} Section, Township, Range: Sec/ T3A/ R = 0 G = 0 Landform (hillslope_terrace, etc.): h_{i}/f = 0 h_{i}/f = 0 G = 0 G = 0 Slope (%): Lat: h_{i}/f = 0 G = 0 G = 0 G = 0 Soil Map Unit Name () 76A_{k} Pe (S + 0 A_{m} O_{ZA} B_{Z}) NWI Classification: OPCL Are climatic/hydrologic conditions of the site typical for this time of the year 3C_{C} - e(A_{F} + 1) Are "normal Are "normal Are vegetation M, soil M, or hydrology M naturally problematic? Are "normal (If needed, explain any answers in remarks) Mer = 0 Mer = 0 Mer = 0 Mer = 0 $									
SUMMARY OF FINDINGS									
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures here or in a s	Is the sampled area within If yes, optional wetland site separate report.)								
High Water Table (A2) Aquatic Saturation (A3) Marl De Water Marks (B1) Hydrog Sediment Deposits (B2) Oxidize Drift Deposits (B3) Roots (Algal Mat or Crust (B4) Presen Iron Deposits (B5) Recent Inundation Visible on Aerial Soils (C imagery (B7) Thin Mark	Stained Leaves (B9) 5 Fauna (B13) poposits (B15) en Sulfide Odor (C1) ed Rhizospheres on Living (C3) ce of Reduced Iron (C4) 1 Iron Reduction in Tilled C6) uck Surface (C7) Explain in Remarks) Depth (inches): Depth (inches): 	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Pattems (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Indicators of wetland hydrology present?							
Remarks:									

VEGETATION - Use scientific names of plant	ts			Sampling Point:
				50/20 Thresholds
Tree Stratum Plot Şize ()	Absolute % Cover	Dominant Species	Indicator Status	20% 50% Tree Stratum
1 (Xherens rubta	<u> </u>	\leq	<u>F-13CU</u>	Sapling/Shrub Stratum / / Herb Stratum
A Quercus G/Da	15		T-ACG	Woody Vine Stratum
PHUMI SENOFING	70		FALLA	Number of Dominant Species that are OBL,
BCALVA QUATA	70		FACI	FACW, or FAC: (A) Total Number of Dominant (A)
10		Total Cover		Species Across all Strata: <u>4</u> (B) Percent of Dominant
Sapling/Shrub Plot Size (,)	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC:(A/B)
2 Phannus Cathartica			<u></u>	Prevalence Index Worksheet Total % Cover of:
Cornes Facemosa	40		FAC	OBL species $x 1 =$ FACW species $5 = 70$ FAC species $50 = x3 = 70$
6 7 8				FACU species $1/5 \times 4 = 460$ UPL species $5 = 5$ Column totals 70 (A) 500 (B)
9 10			·····	Prevalence Index = B/A = <u>3,65</u>
	_ <u></u> =	 Total Cover Dominant 	Indicator	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation
Herp Stratum Plot Size () 1 GG/ilum Gparine	% Cover	Species	Status FACU	Dominance test is >50% Prevalence index is ≤3.0*
· U. burnum Opulas	5		FACW	Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
Par thenu cissos quinque Fuli			निमाय	Problematic hydrophytic vegetation* (explain)
8 9	~ <u></u>			*Indicators of hydric soil and wetland hydrology must be present, unlass disturbed or problematic
10				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a
12 13 14				breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
15	35	Total Cover		greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				Woody vines - All woody vines greater than 3.28 ft in height.
3				Hydrophytic ,
5		Total Cover		vegetation present?
Remarks: (Include photo numbers here or on a sepa	arate sheet)			L
	·			
L				

SOIL							Sa	Impling Point: 9	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix Color (moist)	%		lox Feati %		Loc**	Texture	Remarks	
				70	туре	LUC			
0-8	104R3/2	100					Silf WER		
							/		
8-20	254124/4	80					Clay loam		
	N/12 3/2	20					silf loan		
	10/10/0	80					SIII I Van		
	Concentration, D PL=Pore Lining,			ed Matrix	<, CS=C	overed o	or Coated Sand Grains		
	I Indicators:						Indicators for Prol	blematic Hydric Solls:	
Bla Hyi De Thi Sa Sa Sa Sa Str Da	Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Polyealue Bol or problematic								
Туре:	Restrictive Layer (if observed):								
Remarks:) on ble	Μı	trix Fr	m	8-8	20"			

Project/Site: ST/H 36 CityCounty: Watter Ford Sampling Date: 6 - / - / N Applicant/Owner: State: MI Sampling Point: # / O // P Investigator(s): Memory finit(i Section, Township, Range: Sec/ T3/A R 1965 Sec, 36 T9/A R 1965 Section, Township, Range: Sec/ T3/A R 1965 Sec, 36 T9/A R 1965 Landform (hillstope, terrace, etc.):								
SUMMARY OF FINDINGS								
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures h	N Is the sampled area with the sampled are							
HYDROLOGY		Secondary Indicators (minimum of two						
Primary Indicators (minimum of one is requ	ired; check all that apply)	required)						
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)						
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)						
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)						
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)						
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)						
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery						
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	(C9) Stunted or Stressed Plants (D1)						
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)						
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)						
Surface (B8)		Microtopographic Relief (D4)						
Field Observations:	/							
Surface water present? Yes	NoDepth (inches):	Indicators of						
Water table present? Yes	No	wetland						
Saturation present? Yes	No Depth (inches):	hydrology						
(includes capillary fringe)		present? ///						
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous insp	pections), if available:						
Remarks:								

VEGETATION - Use scientific names of plant	8			Sampling Point: 10
				50/20 Thresholds
	Absolute	Dominant	Indicator	20% 50%
Tree-Stratum Plot Size ())				
1. Diese albe	% <u>Cov</u> er	Species	Status	Tree Stratum
1 Cherchs alba	30		I-AC4	Sapling/Shrub Stratum /
2				Herb Stratum (
30 011	~ /	Concor.		Woody Vine Stratum
4 Grub QUGTE	72		T-BCU	
5		*****		Dominance Test Worksheet
B				Number of Dominant
TOHEVELI MADRE	////		FATT	
CHUCK PHING			17466	Species that are OBL,
8				FACW, or FAC:
	\leq			Total Number of Dominant
10 TEUNUS SEPOTING	2		FACU	Species Across all Strata:(B)
T	-60-	Total Cover		Percent of Dominant
	A. h. a. a. h. star	D	1	Species that are OBL,
Sapling/Shrub Plot Size,()	Absolute	Dominant	Indicator	FACW, or FAC: (A/B)
	% Cover	Species	Status	
1 Rommus Cathartica	50		FAC	Prevalence Index Worksheet
2				Total % Cover of:
3				OBL species x 1 =
4 ACTV NECHNOD	2		THE	FACW species x 2 =
5 0				FAC species $\overline{65} \times 3 = \overline{795}$
6				FACU species 97 x4 = 3XV
7 Prunki Virlihiana			FACT	UPL species $x5 =$
			1100	
8				Column totals 62 (A) 583 (B)
9				Prevalence Index = B/A = 3.60
10				
· · ·	50 =	Total Cover		
				Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (,)	% Cover	Species	Status	Dominance test is >50%
1 Chammus cathartica		Shecipe		
			FAC	Prevalence index is ≤3.0*
2				Morphogical adaptations* (provide
13 11 11	<u> </u>			supporting data in Remarks or on a
4 POWShen ICITCHI SULSWITTIG			TACI	separate sheet)
5	`````			Problematic hydrophytic vegetation*
6				(explain)
				(explain)
7		·	·	*Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9				
10				Definitions of Vegetation Strata:
11				-
12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
13				
14				Sapling/shrub - Woody plants less than 3 in. DBH and
15	<u> </u>			greater than 3.28 ft (1 m) tall.
	ーナナ	Total Cover		
1				Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine Dist Gins (Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tail.
Stratum Plot Size ()				
	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft In
1				height.
2				
3				
				Hydrophytic
5				vegetation
		 Total Cover 		present?
Remarks: (Include photo numbers here or on a sepa	rate sheet)			· · · · · · · · · · · · · · · · · · ·
1				
1				

SOIL							Sa	mpling Point: 10
Profile Des	cription: (Descri	be to the	e depth needed	to docum	ent the	indicato	or or confirm the absenc	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%		lox Featu		Loc**	Texture	Remarks
0-8	10-112 3/2	100					Silflorm	
8-20	75723/2	20					Siltloom	
		DA						
	10416414	80					Silf loan	
							·	
*Type: C=C **Location:	Oncentration, D= PL=Pore Lining,	Depleti= M=Mat	on, RM=Reduce rix	ed Matrix,	CS=C	overed c	r Coated Sand Grains	
	I Indicators:						Indicators for Prol	plematic Hydric Solls:
Bla Hyo Stra De Thi Sau Sau Sau Sau Sau 145	Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 1498 Histic Epipedon (A2) (S8) (LRR R, MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 1498) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Suface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (TF2) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Polycelematic							at or Peat (S3) (LRR K, Ĺ, R) S7) (LRR K, L v Surface (S8) (LRR K, L) ice (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) iplain Soils (F19) (MLRA 149B) FA6) (MLRA 144A, 145, 149B) terial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (inch	Layer (if observe	ed):					Hydric soil presei	nt? <u>//</u>
Remar <u>ks:</u>	Doubl	e r	nctois	Fn	om	8	-20"	

Slope (%) Lat, Soil Map Unit Name A Sh Fum J 14 Are climatic/hydrologic conditions of the s Are vegetation, soil,	CIAC STIME DATIN Local relief (Long.: Datu CACAR USA ATT ite typical for this time of the year _{3CC} <u>rc(n)</u> or hydrology significantly disturbed or hydrology naturally problematic	NWI Classification: <u>E2//F</u> F(If no, explain in remarks) d? Are "normal
SUMMARY OF FINDINGS		······
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures Wet/GhdB	Is the sampled area with the sampled area wi	
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is rec	• • • • • • • • • • • • • • • • • • • •	required)
Surface Water (A1)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Saturation (A3)	Mari Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	eeomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No Depth (inches):	Indicators of
Water table present? Yes	No Depth (inches): Shirter	
Saturation present? Yes	No Depth (inches): Suv Fa	
(includes capillary fringe)		present? /
Describe recorded data (stream gauge, n	nonitoring well, aerial photos, previous insp	ections), if available:
Remarks:		

			Abecluto	Dominant	Indicator	20% 50%
Free Stratum	Plot Size ()	Absolute % Cover	Species	Indicator Status	Tree Stratum
			10 00101	openice	010100	Sapling/Shrub Stratum
						Herb Stratum / /
		<u> </u>	<u> </u>			Woody Vine Stratum
						Dominance Test Worksheet
						Number of Dominant
						Species that are OBL,
						FACW, or FAC:
						Species Across all Strata:(B)
				 Total Cover 		Percent of Dominant
			•• ••	-		Species that are OBL, 10 0 (A/E
apling/Shrub Stratum	Piot Size ()	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: <u>100</u> (A/E
	aterior		20	Opecies	T-AW	Prevalence Index Worksheet
<u>36117 /</u>	1.(*10.		-		1-10CW	Total % Cover of:
ACENT	PINLOD		5		TAC	OBL species x 1 =
	<u>U</u>					FACW species x 2 =
Dibarna	n lestasu		-/		T-AT.	FAC species x 3 = FACU species x 4 =
VIANDONE	n Ichiajo				$+ \frac{n}{\sqrt{2}}$	UPL species x 5 =
					·····	Column totals (A) (B)
					. <u> </u>	Prevalence Index = B/A =
		<u> </u>	34	Total Cover	·	
						Hydrophytic Vegetation Indicators:
lerb Stratum	Plot Size)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Tublic G	1. 1. 1.	,	% Cover	Species	Status	Dominance test is >50% Prevalence index is ≤3.0*
TYPER					<u> </u>	Morphogical adaptations* (provide
DI I.	1,		<u>D</u>)		- Local Street	supporting data in Remarks or on a
TPG 16+11	5 GLUDDIAALA	×	80		TAW	separate sheet)
(<u> </u>		Problematic hydrophytic vegetation* (explain)
		·····				*Indicators of hydric soil and wetland hydrology must t
						present, unless disturbed or problematic
		<u> </u>		 		Definitions of Vegetation Strata:
						_
						Tree - Woody plants 3 in. (7.6 cm) or more in diamete breast height (DBH), regardless of height.
<u></u>						Sapling/shrub - Woody plants less than 3 in. DBH an greater than 3.28 ft (1 m) tail.
			120	= Total Cover		
						Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	
Juatan			10 00401	Optico	Jaius	Woody vines - All woody vines greater than 3.28 ft in height.
	••••••					Hydrophytic
				= Total Cover		present?

SOIL							Sa	mpling Point: //
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)			lox Feat %		Loc**	Texture	Remarks
0-8	1 MB VI	95	12.10 211	~		14	Silf 10502	
	()IICA//	75	10/12 5/6			10	J 117 / 00104	
8-20	104124/1	95	1012316	r	0	RA	clay loam	
							<i> </i>	
	Concentration, D PL=Pore Lining			ed Matri	x, CS=C	overed	or Coated Sand Grains	
	il Indicators:	1 101 1010					Indicators for Prol	plematic Hydric Soils:
Hy Bur De Control Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Pertension Coast Prairie Redox (A16) (LRR K, L, R) Depleted Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Gleyed Matrix (S6) Depleted Dark Surface (F7) Red Parent Material (TF2) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)							
Туре:	Restrictive Layer (if observed): Type: Depth (inches):						Hydric soll prese	nt?
Remarks:								

Project/Site: <u>ST/H 36</u> Applicant/Owner: Investigator(s): <u>Interface</u> , etc.): <u>Icve</u> Landform (hillstope, terface, etc.): <u>Icve</u> Slope (%): <u>Lat</u> : <u>Lo</u> Soil Map Unit Name <u>O ZG G E ce</u> <u>SI/T / UAA</u> Are climatic/hydrologic conditions of the site typical for Are vegetation <u>, soil</u> <u>, or hydrology</u> Are vegetation <u>, soil</u> <u>, or hydrology</u> (If needed, explain any answers in remarks)	Local relief (co ng.:Datum 2 & C.2Datum this time of the year?	ncave, convex, none): <u>howe</u> NWI Classification: <u>None</u> (If no, explain in remarks) Are "normal	2 2036 TYN R196
SUMMARY OF FINDINGS			
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures here or in a solution of the soluti			
HYDROLOGY			
Primary Indicators (minimum of one is required; check Surface Water (A1) Water- High Water Table (A2) Aquating Saturation (A3) Marl D Water Marks (B1) Hydrog Sediment Deposits (B2) Oxidize Drift Deposits (B3) Roots Algal Mat or Crust (B4) Preser Iron Deposits (B5) Recent Inundation Visible on Aerial Soils (t) Imagery (B7) Thin M Sparsely Vegetated Concave Other to	Stained Leaves (B9) c Fauna (B13) leposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled	Secondary Indicators (minimum of two required) 	
Field Observations: Surface water present? Yes No Water table present? Yes No Saturation present? Saturation present? Yes No Saturation present? (includes capillary fringe) Describe recorded data (stream gauge, monitoring we	Depth (inches): Depth (inches): Depth (inches): Il, aerial photos, previous inspec	tions), if available:	
Remarks:			

						50/20 Thresholds
ree Stratum	Plot Size ()	Absolute	Dominant	Indicator	20% 50%
		'	% Cover	Species	Status	Tree Stratum
						Sapling/Shrub Stratum
						Herb Stratum
						Woody Vine Stratum
						Dominance Test Worksheet
						Number of Dominant
						Species that are OBL,
						FACW, or FAC:
						Total Number of Dominant
				Total Cover	• ······	Species Across all Strata:(B
						Percent of Dominant
						Species that are OBL,
apling/Shrub	Plot Size ()	Absolute	Dominant	Indicator	FACW, or FAC:
Stratum		,	% Cover	Species	Status	
						Prevalence Index Worksheet
						Total % Cover of:
						OBL species x1 =
						FACW species x 2 =
						FAC species x 3 =
					*****	FACU species x 4 =
						UPL species x 5 =
						Column totals (A) (B
						Prevalence Index = B/A =
	<u> </u>			= Total Cover		
	229 J					Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic Definitions of Vegetation Strata:
				<u></u>		Tree - Woody plants 3 in. (7.6 cm) or more in diame
						breast height (DBH), regardless of height.
						Sapling/shrub - Woody plants less than 3 in. DBH
			<u> </u>			greater than 3.28 ft (1 m) tall.
			20	Total Cover		
						Herb - All herbaceous (non-woody) plants, regardle size, and woody plants less than 3.28 ft tall.
Noody Vine	Plot Size ()	Absolute	Dominant	Indicator	
Stratum		,	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft
						height.
			<u></u>			1
						Hydrophytic
						vegetation
		_		= Total Cover	_	present? <u>//</u>
			arate sheet)			

SOIL						Sa	mpling Point: 12		
Profile Des	cription: (Descri	be to the	e depth needed	to document	the indicate	or or confirm the absenc	e of indicators.)		
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	lox Features % Typ		Texture	Remarks		
	1. 1. I.	,				· · /			
0-11	10412312	160				Silfloan			
						/			
11-20	15412 413	100				CKG / Dan			
*Type: C=C	Concentration D	=Denieti	on RM=Reduce	d Matrix CS	S=Covered (or Coated Sand Grains			
**Location:	PL=Pore Lining,	M=Mat	rix			of Coaled Gand Grains			
Hydric Soi	I Indicators:					Indicators for Prol	blematic Hydric Solls:		
Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLR Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LF Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (M Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, Stripped Matrix (S6) Depleted Dark Surface (F7) Red Parent Material (TF2) Dark Surface (S7) (LRR R, MLRA Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic							at or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) iplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (TF2) ark Surface (TF12) in Remarks)		
Restrictive Type: Depth (incl	Layer (if observe	∋d):				Hydric soil present?			
Remarks:									

.

Project/Site: ST/H 36 Citycounty: Waller Ford Sampling Date: 6 - / - / N Applicant/Owner: State: WI Sampling Point: # / 3 Lict Investigator(s): MILLAL CHERFINICI Section, Township, Range: Sec! T3A R 1965 Sec. 36 T4N / Landform (hillstope, terrace, etc.): Cherrin (no. 1) Dasc Dasc Dasc Concave Slope (%): Lat: Interstigator (Dasc Dasc Datum: Concave Soil Map Unit Name DaskECC Site (Dasc Oza Datum: NWI Classification: More Are climatic/hydrologic conditions of the site typical for this time of the year? Creptor (Northology) Are significantly disturbed? Are "normal Are vegetation N, soil MIL or hydrology M naturally problematic? circumstances" present? (If needed, explain any answers in remarks)	2196
Hydrophytic vegetation present? Is the sampled area within a wetland? Y	
HYDROLOGY	
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Pattems (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Crayfish Burrows (C8) Drift Deposits (B3) Roots (C3) Saturation Visible on Aerial Imagery Iron Deposits (B5) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Inundation Visible on Aerial Soils (C6) Geomorphic Position (D2) Imagery (B7) Thin Muck Surface (C7) Shałtow Aquitard (D3) Surface (B8) Pictod Other (Explain in Remarks) FAC-Neutral Test (D5)	
Field Observations: Surface water present? Yes No Depth (inches): Indicators of wetland hydrology present? Water table present? Yes No Depth (inches): G hydrology present? Saturation present? Yes No Depth (inches): G hydrology present? (includes capillary fringe) Ves No Depth (acrial photos, previous inspections), if available:	
Remarks:	

) Absolute % Cover 	Dominant Species	Indicator Status	20% 50% Tree Stratum Sapling/Shrub Stratum Herb Stratum Woody Vine Stratum
, % Cover	Species		Sapling/Shrub Stratum 2 Herb Stratum 1
			Herb Stratum
		1	
			Dominance Test Worksheet
			Number of Dominant
			Species that are OBL,
			FACW, or FAC:
			Total Number of Dominant 7
	Total Course		Species Across all Strata: (B)
·······	= total Cover		Percent of Dominant
•• • •		1 11	Species that are OBL, / D (A/B)
			FACW, or FAC: $\underline{/ / / }$ (A/B)
	Species		
/_		1-14CW	Prevalence index Worksheet
			Total % Cover of:
	\leq	FAL	
		tan.	FACW species x 2 =
_ du		LIGUN	FAC species x 3 = FACU species x 4 =
		TEAT	UPL species x 4 =
		1.70	Column totals (A) (B)
	••••••	TFAC	Prevalence Index = B/A =
		Leine Them	
- 60	= Total Cover		
			Hydrophytic Vegetation Indicators:
Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
% Cover	Species	Status	Dominance test is >50%
6 <u> </u>		1-1fill	Prevalence index is ≤3.0*
			Morphogical adaptations* (provide
	<u></u>	FAT	supporting data in Remarks or on a separate sheet)
		110 C	Problematic hydrophytic vegetation*
	<u></u>		(explain)
		·······	*Indicators of hydric soil and wetland hydrology must b
			present, unless disturbed or problematic
			Definitions of Vegetation Strata:
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
			breast height (DBH), regardless of height.
			
			Sapling/shrub - Woody plants less than 3 in. DBH an greater than 3.28 ft (1 m) tall.
+	= Total Cover		
<i>i</i> -/	- 10(0100000		Herb - All herbaceous (non-woody) plants, regardless
, Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tail.
) % Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
	•		height.
			Hydrophytic /
			vegetation
	= Total Cover		present?
	Absolute % Cover 10 21 22 23 24 25 26 27 27 <td>) % Cover Species 20 20 20 20 20 20 20 20 20 20</td> <td>Absolute % Cover Dominant Species Indicator Status 2D FALL 3D FALL 400 FALL 400 FALL 400 FALL 400 FALL 3D FALL 400 FALL 400</td>) % Cover Species 20 20 20 20 20 20 20 20 20 20	Absolute % Cover Dominant Species Indicator Status 2D FALL 3D FALL 400 FALL 400 FALL 400 FALL 400 FALL 3D FALL 400 FALL 400

SOIL							Sa	mpling Point: 13			
Profile Des	cription: (Descri	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the absence	e of indicators.)			
Depth (Inches)	Matrix Color (moist)	%	Rec Color (moist)	lox Feal %	tures Type*	Loc**	Texture	Remarks			
0.7	VUTR 4/1	95	1.11/10 2/1			m	silt luga				
0-6	70112. 411	13	101123/6			<i>(</i>	STIC IVAP				
6-20	INTR 512	85	104h du	17	6	M	CLAULOGM				
0.20		0.3	10 110-114				CIAGIOGE	*****			
						 					
						<u> </u>					
	Concentration, D PL=Pore Lining			ed Matri	x, CS=C	overed o	or Coated Sand Grains				
Hydric So	il Indicators:		· · · · · · · · · · · · · · · · · · ·			****	Indicators for Prot	plematic Hydric Soils:			
Hy Str De Th Sa Sa Sa Sa Str Da 14	Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Dark Surface (S7) (LRR R, MLRA Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Poblematic										
Туре:	Restrictive Layer (if observed): Type: Depth (inches):						Hydric soil present?				
Remarks:											

STH 71	An Ilter	Ful a	hel	-10
Project/Site: <u>SIM SC</u>	City County: NG Port	UV e Sa	ampling Date: 6-/	1111
Applicant/Owner:	State: 1	NI	Sampling Point:	<u>441</u>
Investigator(s): Mentenski			ingo: Sec T3AI RIGL	
Landform (hillslope, terrace, etc.):	Local relief (c		/ex, none): <u>hone</u>	<u> </u>
Slope (%): Lat.: Lor	ig.:Datur	and the second se	1/2	*
Soil Map Unit Name ()766 Lee SITE / OGM	UZG/S	NWI Class		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Are climatic/hydrologic conditions of the site typical for				
Are vegetation \underline{N} , soil \underline{N} , or hydrology			e "normal	\checkmark
Are vegetation _//, soil _//, or hydrology	naturally problematic	? ci	cumstances" present?	
(If needed, explain any answers in remarks)				
Hydrophytic vegetation present? N Hydric soil present? N Indicators of wetland hydrology present? N	Is the sampled area with		d? _//	
			······ _ ···· · · · · · · · · · · · · ·	-
Remarks: (Explain alternative procedures here or in a s	eparate report.)			
HYDROLOGY				
		Secondar	y Indicators (minimum of	ftwo
Primary Indicators (minimum of one is required; check	all that apply)	required)		
Surface Water (A1) Water-	Stained Leaves (B9)	Surfer	e Soil Cracks (B6)	

Primary Indicators (minimum of one is re-	quired; check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algai Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:]
Surface water present? Yes	No Depth (inches):	Indicators of
Water table present? Yes	No Depth (inches):	wetland
Saturation present? Yes	No Depth (inches):	hydrology
(includes capillary fringe)		present?
Describe recorded data (stream gauge, r	nonitoring well, aerial photos, previous insp	pections), if available:
Remarks:		

holds 20% 50% 2 b Stratum Test Worksheet ominant are OBL, AC: G (A) r of Dominant are OBL, AC: G (B) ominant are OBL, AC: G (A/B) Index Worksheet er of: x 1 = -
ominant are OBL, 2 (A) r of Dominant oss all Strata: 4 (B) ominant are OBL, 37 (A/B) Index Worksheet er of: x 1 =
Index Worksheet er of: x 1 =
es x 2 =
s (A) (B) ndex = B/A = (B) : Vegetation Indicators: st for hydrophytic vegetation icce test is >50% icce index is <3.0* ilcal adaptations* (provide
ing data in Remarks or on a sheet) atic hydrophytic vegetation* writic soil and wetland hydrology must be disturbed or problematic of Vegetation Strata:
lants 3 in. (7.6 cm) or more in diameter at)BH), regardless of height. - Woody plants less than 3 in. DBH and 28 ft (1 m) tail. sceous (non-woody) plants, regardless of plants less than 3,28 ft tail.
All woody vines greater than 3.28 ft in

SOIL						Sa	mpling Point: 14
Profile Des	cription: (Descri	ibe to th	e depth needed t	to docume	nt the indicat	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	lox Feature % T	es Type* Loc**	Texture	Remarks
						\	
0-11_	104r3/2	100				Silt loan	
11-17	104R 3/2	Ś0				Silt-loca	
	10712413	50				Silt loan	
17-20	7.5412414	100				Clar / Dan	
1.00	<i>"31'- 11 4</i>	/ •••				-1667 00100	
		•		ed Matrix, C	CS=Covered	or Coated Sand Grains	
	PL=Pore Lining	, w=wai				Indicators for Prot	plematic Hydric Solls:
Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149E) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L Depleted Below Dark Surface (A11) (LRR K, L) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1 Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (TF2) Stripped Matrix (S6) Depleted Dark Surface (F7) Red Parent Material (TF2) Dark Surface (S7) (LRR R, MLRA User (S5) Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic							
Restrictive Type: Depth (incl	Layer (if observ	ed):				Hydric soil prese	nt? <u>///</u>
Remarks:	Souple	Ъc	triz F.	- 7 Dm	11-17	<i>, , , ,</i>	

Slope (%): 2 4 st / Soil Map Unit Name / / / / / / / / / / / / / / / / / / /	Chrcssing PGJIn Local relief Long.: Date Image: Date	Sampling Point: $\frac{4}{5}$ We f , Township, Range: Sec T3A R 19E Sec. 36 T4N R 196 (concave, convex, none): CDCG VC tum: NWI Classification: None $\frac{NF}{16}$ (If no, explain in remarks) ed? Are "normal
SUMMARY OF FINDINGS	·····	
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present?	Is the sampled area w	
	shere or in a separate report.) /vcafel in Crup; slide Heview	prd Field
HYDROLOGY		
Primary Indicators (minimum of one is re- Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface water present? Yes	quired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Sturated or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D5) Microtopographic Relief (D4)
Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): No Depth (inches): No Depth (inches): Depth (inches):	wetland hydrology present?
Remarks:		

						50/20 Thresholds
ree Stratum	Plot Size ()	Absolute	Dominant	Indicator	20% 50%
		,	% Cover	Species	Status	Tree Stratum
						Sapling/Shrub Stratum Herb Stratum
						Woody Vine Stratum
				·		Dominance Test Worksheet
						Number of Dominant
						Species that are OBL, EACW or EAC: (A)
						Total Number of Dominant
				Total Cover		Species Across all Strata:(B)
						Percent of Dominant
apling/Shrub			Abaaluta	Deminant	Indicator	Species that are OBL,
Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Status	FACW, or FAC:()(A/E
Suatum			% Cover	Species	Status	
					<u></u>	Prevalence index Worksheet
						Total % Cover of:
·						
		······		<u></u>		FACW species x 2 = FAC species x 3 =
•					****	FACU species x 3 =
				·		UPL species x 5 =
		·····-				Column totals (A) (B)
						Prevalence index = B/A =
				Total Cover		
				— • •		Hydrophytic Vegetation Indicators:
erb Stratum	Plot Size ()	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Ter m	645		% Gover	Species	Status リアに	Dominance test is >50% Prevalence index is ≤3.0*
	<u> </u>		<u> </u>			Morphogical adaptations* (provide
· · · · · · · · · · · · · · · · · · ·						supporting data in Remarks or on a
						separate sheet)
						Problematic hydrophytic vegetation*
						(explain)
						"Indicators of hydric soil and wetland hydrology must
	·····					present, unless disturbed or problematic
						B-R-M-
						Definitions of Vegetation Strata:
						Tree - Woody plants 3 in. (7.6 cm) or more in diameter
***						breast height (DBH), regardless of height.
						Sapling/shrub - Woody plants less than 3 in. DBH an
						greater than 3.28 ft (1 m) tail.
<u>, , , , , , , , , , , , , , , , , , , </u>				Total Cover		
						Herb - All herbaceous (non-woody) plants, regardless
Voody Vine	Plot Size ()	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tail.
Stratum		,	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
		······			,	helght.
				·····		
			••••••			
	***					Hydrophytic
				Tatal Cause		vegetation \bigwedge
				 Total Cover 		present? ///
narks: (Include p	hoto numbers here or	on a sepa	arate sheet)			
				1		$\Box u \Lambda$
Calle	stantol (Jn D	arel t	5 Sur	rulahdil	Ly tield. Hrea
-orn.	JUNNIEN C	vr^ľ				ig Field, Area de review
		· · ·	r		1.	
	21.1.	L	f- 11)	181.11	Ma MI	al La V. P.)

SOIL							Sa	mpling Point: 15
		ibe to th				indicate	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	lox Feal %	tures Type*	Loc**	Texture	Remarks
0-15	104124/2	58	12412416	2	c	m	Siltluan	
	4.004	10	C& IIC 4 0	- Ģ -			S11 8. 10474	
15 20	104R 512	65	AND VIT					
15-20	<u>////<!--2</u--></u>	95	1 912 1/6	1		M	clay luam	
							<i>[</i>	
					<u> </u>			
<u> </u>								
*Type: C=C	oncentration D	=Deplet	on RM=Reduce	d Matri	x CS=C	overed	or Coated Sand Grains	
	PL=Pore Lining				<u></u>		of Coaled Carld Crains	
Hydric Soi	I Indicators:						Indicators for Prob	lematic Hydric Solis:
Hyo Stra De Thi Sar Sar Sar Sar Sar 148 *Indicators	Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 144) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Thin Dark Surface (TF12) Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic							
Restrictive Type: Depth (inch	Layer (if observe	ed):			-		Hydric soil presen	nr <u>/</u>
Remarks:								

Project/Site: ST/H 36 Applicant/Owner: Investigator(s): MPML (her Fin 1/c) Landform (hillslope, terrace, etc.): Pere/ Slope (%): Lat/ Soil Map Unit Name // MAA / Si/H / OAM Are climatic/hydrologic conditions of the site typical for th Are vegetation , soil , or hydrology Are vegetation AT, soil , or hydrology (If needed, explain any answers in remarks)	Local relief (co g.:Datum h J//f his time of the year? <u>cc_rc/wr</u> a	NWI Classification: <u>// me</u> NWI Classification: <u>// me</u> (If no, explain in remarks) Are "normal	TYN RI9E
Hydrophytic vegetation present?	Is the sampled area withi		
Remarks: (Explain alternative procedures here or in a se			
DP located in Croppel	tield, mappel	pcarea,	
DP located in cropped Aydnic soils, however	- are not pi	reseat.	
HYDROLOGY	/		
		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is required; check a			
	Stained Leaves (B9) Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)	
	posits (B15)	Moss Trim Lines (B16)	
Water Marks (B1) Hydroge	en Sulfide Odor (C1)	Dry-Season Water Table (C2)	
	d Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)		Saturation Visible on Aerial Imagery	
	e of Reduced Iron (C4)	(C9)	
Iron Deposits (B5) Recent I Inundation Visible on Aerial Soils (C6	Iron Reduction in Tilled	Stunted or Stressed Plants (D1) Geomorphic Position (D2)	
	ck Surface (C7)	Shallow Aquitard (D3)	
	Explain in Remarks)	FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:	/		
Surface water present? Yes No	Depth (inches):	_ indicators of	
Water table present? Yes No Saturation present? Yes No	Depth (inches): Depth (inches):	_ wetland _ hydrology _)	
(includes capillary fringe)		present? //	
Describe recorded data (stream gauge, monitoring well,	aerial photos, previous inspec	tions), if available:	
	, F F		
Remarks:		****	

						50/20 Thresholds
ree Stratum	Plot Size ()	Absolute	Dominant	Indicator	20% 50%
		'	% Cover	Species	Status	Tree Stratum
						Sapling/Shrub Stratum
						Herb Stratum /
			·····			Woody Vine Stratum
						Shared States and States and States and
					<u> </u>	Dominance Test Worksheet
						Number of Dominant
						Species that are OBL,
						FACW, or FAC:
						Total Number of Dominant Species Across all Strata: (B
				Total Cover		
						Percent of Dominant
						Species that are OBL,
apling/Shrub	Plot Size ()	Absolute	Dominant	Indicator	FACW, or FAC:(A
Stratum		,	% Cover	Species	Status	
						Prevalence Index Worksheet
						Total % Cover of:
						OBL species x 1 =
						FACW species x 2 =
						FAC species x 3 =
			••••••••••••••••••••••••••••••••••••••			FACU species x 4 =
						UPL species x 5 =
						Column totals (A) (E
					d	Prevalence Index = B/A =
				Total Cover		
						Hydrophytic Vegetation Indicators:
		,	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
lerb Stratum	Plot Size ()	%_Cover	Species	Status	Dominance test is >50%
Zea ma	LAS S		25		NPL	Prevalence index is ≤3.0*
	7					Morphogical adaptations* (provide
	7					supporting data in Remarks or on a
						separate sheet)
						Problematic hydrophytic vegetation*
						(explain)
						*Indicators of hydric soil and wetland hydrology mus
						present, unless disturbed or problematic
						Definitions of Vegetation Strata:
						Tree Minedu plante 0 in (7.0 pm) en more in diame
						Tree - Woody plants 3 in. (7.6 cm) or more in diame breast height (DBH), regardless of height.
						breast height (bbri), regaratess of height.
						Sapling/shrub - Woody plants less than 3 in. DBH
			- 2			greater than 3.28 ft (1 m) tall.
			25	 Total Cover 		
						Herb - All herbaceous (non-woody) plants, regardle size, and woody plants less than 3.28 ft tall.
Woody Vine	Plot Size ()	Absolute	Dominant	Indicator	
Stratum		,	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft
						height.
						Hydrophytic
						vegetation /
				- Total Cover		present?
narks: (Include	hoto numbers here o	on a sepa	arate sheet)			
\bigcirc	•	1		D		
(Uxh	Crop not	St	resseu	X		
	~ 1 0 1 1 1 1 9					
CUPPI	,					

SOIL						Sa	mpling Point:
Profile Des	cription: (Descri	be to th	e depth needed t	o docume	nt the indicat	or or confirm the absence	e of indicators)
Depth (Inches)	Matrix Color (moist)	%		ox Feature		Texture	Remarks
0-13	1. 47-8/2	100				cit the	
10.13	10/11:5/2	700				Siltlan	
13-20	10412 7/2	20				site lace	
13-20	10 1/2 1/2	00				Jil / Jan	
	157R 4/4	80				Chy loam	
	1.					/ ·	
						``````````````````````````````````````	
	Concentration, D= PL=Pore Lining,			d Matrix, C	S=Covered	or Coated Sand Grains	
	I Indicators:	IVI IVIGI				Indicators for Prot	plematic Hydric Solls:
Histisol (A1)       Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149E)         Histic Epipedon (A2)       (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       (LRR R, MLRA 149B)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Suface (A11)       (LRR K, L)       Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Piedmont Floodplain Solls (F19) (MLRA 144A, 145, 14)         Sandy Redox (S5)       Depleted Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14)         Dark Surface (S7) (LRR R, MLRA       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)       Other (Explain in Remarks)							at or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) lplain Soils (F19) (MLRA 149B) FA6) (MLRA 144A, 145, 149B) terial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (inch	Layer (if observe	ed):				Hydric soil preser	nt? <u>//</u>
Remarks:	orple r	hut	rix En	°∼ )	3-20	, <b>/ )</b> ,	

Slope (%): Lat.: , Soil Map Unit Name O76 Let.: , Are climatic/hydrologic conditions of the site Are vegetation , soil , or	h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h <th>NWI Classification: <u>Nonc</u> H(If no, explain in remarks) Are "normal</th>	NWI Classification: <u>Nonc</u> H(If no, explain in remarks) Are "normal
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present?	N     Is the sampled area wit       Y     If yes, optional wetland s	
Remarks: (Explain alternative procedures he Wetland E Arch (	on FSA slike ver	iew,
DP located in Cropp	el Field	
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requi		required)
Surface Water (A1)     High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:	/	
Surface water present? Yes	NoDepth (inches):	Indicators of
Water table present? Yes	No Depth (inches):	wetland
Saturation present? Yes	No Depth (inches):	hydrology present?
Describe recorded data (stream gauge, mo	nitoring well, aenal photos, previous inspe	ctions), if available:
Remarks:		
L		

						50/20 Thresholds
in a Charles	Diet Size (	、	Absolute	Dominant	Indicator	20% 50%
ree Stratum	Plot Size (	)	% Cover	Species	Status	Tree Stratum
						Sapling/Shrub Stratum
						Herb Stratum
				·		Woody Vine Stratum
						Dominance Test Worksheet
						Number of Dominant
			·			Species that are OBL,
						FACW, or FAC:
						Total Number of Dominant
				•• <del>•••••</del> •		Species Across all Strata: (B)
				Total Cover		Percent of Dominant
						Species that are OBL,
pling/Shrub	Plat Size /	、	Absolute	Dominant	Indicator	FACW, or FAC: U (A/E
Stratum	Plot Size (	)	% Cover	Species	Status	
						Prevalence index Worksheet
	· · · · · · · · · · · · · · · · · · ·					Total % Cover of:
						OBL species x 1 =
	·····					FACW species x 2 =
					·	FAC species x 3 =
			······			FACU species x 4 =
						UPL species $x 5 =$
						Column totals (A) (B)
······································			······			Prevalence Index = B/A =
	·		<u> </u>	Total Cover		
				- IOLAI COVEL		Hydrophytic Vegetation Indicators:
			Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
erb Stratum	Plot Size (	)	% Çover	Species	Status	Dominance test is >50%
ZEG MU	<b>U</b> (		2		UPL	Prevalence index is ≤3.0*
						Morphogical adaptations* (provide
	- r					supporting data in Remarks or on a
						separate sheet)
						Problematic hydrophytic vegetation*
						(explain)
						*Indicators of hydric soil and wetland hydrology must t
						present, unless disturbed or problematic
					. <u></u>	Definitions of Vegetation Strata:
			****			Semmuone or regolation strata.
<u> </u>			<u> </u>			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
						breast height (DBH), regardless of height.
						Sapling/shrub - Woody plants less than 3 in. DBH an
			······	<u> </u>		greater than 3.28 ft (1 m) tall.
			3	Total Cover		
						Herb - All herbaceous (non-woody) plants, regardless
Voody Vine	Plot Size (	)	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum	. 101 0120 (	,	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
						height.
						Hydrophytic
		<u> </u>				vegetation
				Total Cover		present? <u>//</u>
arke: /include sh	oto numbers here o		arata sheet)			L
				1	^	
$\bigcap$	and the	100		1	nolon	(+ 1)! + +
Urn (	- NUA 570	nied	ahd	anus	ne o U	hi Ghitiuh
-	(1					-
- ·	V	1		۰. ۱		
0F10	VPAVI M	1.sh	Len	evie L)		ht 6 hits out

SOIL							Sa	mpling Point: 17
Profile Des	cription: (Descri	be to th	e depth needed	to docur	ment the	indicato	or or confirm the absence	of indicators.)
Depth (Inches)	Matrix Color (moist)	%		lox Feat %		Loc**	Texture	Remarks
0-14	134124/2	55	/vyn 4/6	5	С	N	silf/oam	
14-20	104R.5/3	80	/ <i>\\R4</i> /6	20	С	Æ	Claytoan	
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matrix	k, CS=C	overed o	or Coated Sand Grains	
**Location:	PL=Pore Lining, I Indicators:							lematic Hydric Solls:
His Bla Hyu De Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Sau	Histisol (A1)       Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Depleted Below Dark Suface (A11)       (LRR K, L)       Dark Surface (S7) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144         Sandy Redox (S5)       Depleted Dark Surface (F7)       Redox Dark Surface (F7)       Redox Depressions (F8)         Stripped Matrix (S6)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA       149B)         *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic							
Restrictive Type: Depth (inch	Layer (if observentes):	ed):			-		Hydric soil preser	nr <u>/</u>
Remarks:								

Are vegetation $\underline{\gamma}$ , soil $\underline{\lambda}$ , o	Image: Control Control     Control     Local relief (       Image: Control     Control     Control     Control       Image: Control	NWI Classification: <u>MONE</u> - H(If no, explain in remarks) d? Are "normal
		······
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures DP /JCc Ted in C/m		
HYDROLOGY		
Primary Indicators (minimum of one is req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C9) Crayfish
Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe) Describe recorded data (stream gauge, m	No Depth (inches): No Depth (inches): No Depth (inches): Depth (inches):	Indicators of wetland hydrology present?
Remarks:		

						50/20 Thresholds
ree Stratum	Plot Size (	)	Absolute % Cover	Dominant Species	Indicator Status	20% 50% Tree Stratum Sapling/Shrub Stratum Herb Stratum Woody Vine Stratum
						-
					<u></u>	Dominance Test Worksheet Number of Dominant
	· · · · · · · · · · · · · · · · · · ·					Species that are OBL,
					······	FACW, or FAC:
						Total Number of Dominant Species Across all Strata: / (E
				Total Cover	<u></u>	Percent of Dominant
apling/Shrub Stratum	Plot Size (	)	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC:
••••••				000000	•	Prevalence index Worksheet
						Total % Cover of:
			·	<u> </u>	. <u></u>	OBL species x 1 = FACW species x 2 =
			·			FAC species x 2 =
						FACU species x 4 =
	· · · · · · · · · · · · · · · · · · ·					UPL species x 5 =(E
			······		·	Prevalence Index = B/A =
				= Total Cover		
				= Total Cover		Hydrophytic Vegetation Indicators:
lerb Stratum <u>ZCG</u> M	Plot Size (	)	Absolute % Cover	Dominant Species	Indicator Status	Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is <3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
						Problematic hydrophytic vegetation*
						*Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic
	· · · · · · · · · · · · · · · · · · ·					Definitions of Vegetation Strata:
						Tree - Woody plants 3 in. (7.6 cm) or more in diam breast height (DBH), regardless of height.
						Sapling/shrub - Woody plants less than 3 in. DBH
			70	Total Cover	<u> </u>	greater than 3.28 ft (1 m) tall.
Noody Vine			Absolute	Dominant	Indicator	Herb - All herbaceous (non-woody) plants, regardle size, and woody plants less than 3.28 ft tail.
Stratum	Plot Size (	)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.26 f height.
				Total Cover		Hydrophytic vegetation present?
narks: (Include p	ohoto numbers here o	ron a sep	arate sheet)	but	stant	rd or yellowed
COV	h 15 he	6196	your	100	J Y W ( V I )	u u production

SOIL							Sa	mpling Point:
						indicate	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	ox Fea %	tures Type*	Loc**	Texture	Remarks
Ď-11	10173/2	100					silt lugn	
11-18	IUYR YYY	100					Clay loan	****
18-20	/ <i>Ა</i> ५/ <i>५</i> /५	98	10 VR 5/8	2	<u>C.</u>	M	Chy loam	
*Type: C=0	Concentration, D	=Deplet	on, RM=Reduce	d Matri	x, CS=C	overed o	or Coated Sand Grains	
	PL=Pore Lining	, M=Mat	rix				Indicators for Prob	lematic Hydric Solis:
His Bla Str De Th Sa Sa Sa Sa Sa Str Da	stisol (A1) stic Epipedon (A2 ack Histic (A3) drogen Sulfide (A ratified Layers (A pleted Below Da ick Dark Surface ndy Mucky Mine ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) 9B) o fhydrophytic v	A4) 5) (rk Sufac (A12) ral (S1) rix (S4) ;) (LRR R,	(S8 Thir (LR Loa (LR Loa Dep Rec Dep Rec MLRA	) (LRR n Dark R R, M my Mu R K, L) my Gle bleted N dox Dar bleted E dox Dep	yed Mat Matrix (F3 k Surfac Dark Surf pressions	A 149B) (S9) DB rral (F1) rix (F2) 3) e (F6) Face (F7) s (F8)	Coast Prairie Re 5 cm Mucky Pea Dark Surface (S Polyvalue Below Thin Dark Surfa Iron-Manganese Piedmont Flood Mesic Spodic (T Red Parent Mat	v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) 'A6) (MLRA 144A, 145, 149B) erial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (incl	Layer (if observ	ed):			-		Hydric soil presen	n? <u>A</u>
Remarks:						<u> </u>		

Applicant/Owner:       State:       Sta	sification: Nor
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Remarks: (Explain alternative procedures here or in a separate report.)	
DP located in cropped field. Wetland F	Arca 5 cm FSA slide review
HYDROLOGY	
Primary Indicators (minimum of one is required; check all that apply)       Secondar         Primary Indicators (minimum of one is required; check all that apply)       required)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface         High Water Table (A2)       Aquatic Fauna (B13)       Draina         Saturation (A3)       Marl Deposits (B15)       Moss         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Dry-St         Sediment Deposits (B2)       Oxidized Rhizospheres on Living       Crayfit         Drift Deposits (B3)       Roots (C3)       Saturation (C4)       (C9)         Iron Deposits (B5)       Recent Iron Reduction in Tilled       Sturted         Inundation Visible on Aerial       Soils (C6)       Georm         Imagery (B7)       Thin Muck Surface (C7)       Shallo         Sparsely Vegetated Concave       Other (Explain in Remarks)       FAC-M	y Indicators (minimum of two ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery ed or Stressed Plants (D1) torphic Position (D2) ow Aquitard (D3) Neutral Test (D5) topographic Relief (D4)
Water table present?       Yes       No       Depth (inches):         Saturation present?       Yes       No       Depth (inches):         (includes capillary fringe)       Image: Comparison of the second s	ndicators of wetland hydrology present?
Remarks: 8 Hits OLD OF 10 YPANS 52 Slide Feview	ailable:

						50/20 Thresholds
ree Stratum	Plot Size (	)	Absolute	Dominant	Indicator	20% 50%
	1 101 0120 (	'	% Cover	Species	Status	Tree Stratum
						Sapling/Shrub Stratum
	N 2		······			Herb Stratum 2 Woody Vine Stratum
						Dominance Test Worksheet
· · · · · · · · · · · · · · · · · ·			<u></u>			Number of Dominant
			······			Species that are OBL,
						FACW, or FAC: / (A)
					······	Total Number of Dominant
				TILO	• <del>•••••••</del>	Species Across all Strata:(B)
				<ul> <li>Total Cover</li> </ul>		Percent of Dominant
				<b>-</b> · ·		Species that are OBL,
apling/Shrub	Plot Size (	)	Absolute	Dominant	Indicator	FACW, or FAC: $\underline{J}$ (A/E
Stratum		•	% Cover	Species	Status	
				·······		Prevalence index Worksheet
						Total % Cover of:
					,	OBL species x1 =
						FACW species x 2 =
						FAC species 2 x 3 = 7 FACU species x 4 =
			······			FACU species x4 = UPL species x5 = 10
						Column totals $\frac{1}{2}$ (A) $\frac{1}{2}$ (B)
						Prevalence Index = $B/A = 4, 00$
				= Total Cover		
						Hydrophytic Vegetation Indicators:
erb Stratum	Plot Size (	)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
7	-	,	% Cover	Species	Status	Dominance test is >50%
LEG W	1Gys				UPL	Prevalence index is ≤3.0*
						Morphogical adaptations* (provide
Carps	5/6hda		<u>-9</u>		TAT	supporting data in Remarks or on a separate sheet)
Cully	pinnin				FAC	Problematic hydrophytic vegetation*
						(explain)
				······		*Indicators of hydric soil and wetland hydrology must t
					(),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	present, unless disturbed or problematic
						Definitions of Vegetation Strata:
				·····		Tree - Woody plants 3 in. (7.6 cm) or more in diamete
						breast height (DBH), regardless of height.
	·····		<u></u>			
			<u> </u>			Sapling/shrub - Woody plants less than 3 in. DBH an greater than 3.28 ft (1 m) tail.
			<del>-4</del>	= Total Cover		Broad and or or ( ) my leaf
						Herb - All herbaceous (non-woody) plants, regardless
Woody Vine	Plot Size /		Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum	Plot Size (	)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
				-		height.
					<u> </u>	
						Hydrophytic
						vegetation
				= Total Cover		present?
marka, (Includa -	hoto numbers here er		and aboat			
narks: (Include p	photo numbers here or	on a sepa	arate sheet)			

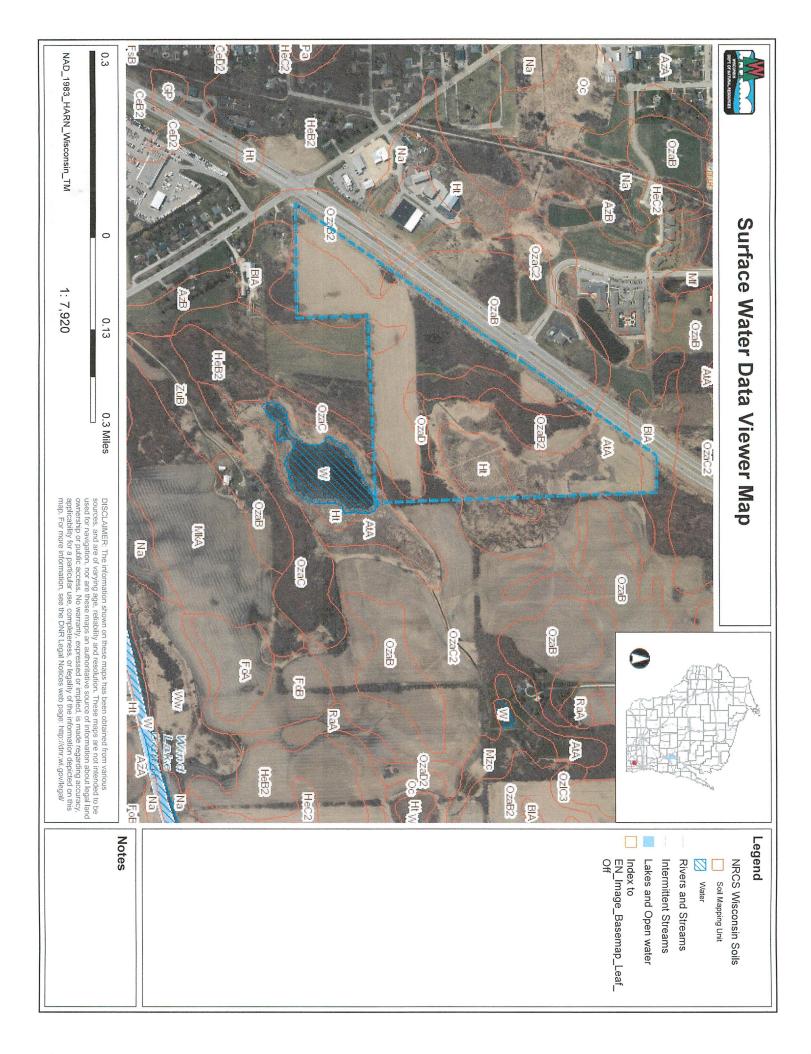
SOIL			<u>_ 17 k - 5 11 - 5 6</u>				Sa	mpling Point: 19
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	r or confirm the absenc	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Rec Color (moist)	dox Feat %	tures Type*	Loc**	Texture	Remarks
0-6	104124/2	100						
6 - 11	10-112 4/2	<i>45</i>	107174/6	5	C.	h		
71-20	104R4j4	90	10-112 4/6	10	C.	M		
	Concentration, D PL=Pore Lining,			ed Matri	x, CS=C	overed o	r Coated Sand Grains	
	I Indicators:	In the					Indicators for Prol	plematic Hydric Solls:
Bla Hy Str De Thi Sa Sa Sa Sa Str Da 141	tic Epipedon (A2 ick Histic (A3) drogen Sulfide (A atified Layers (A pleted Below Da ck Dark Surface ndy Mucky Miner ndy Gleyed Matrindy Redox (S5) ipped Matrix (S6 rk Surface (S7) ( <b>3B</b> ) of hydrophytic w	14) 5) rk Sufac (A12) ral (S1) ix (S4) ) LRR R,		n Dark S RR R, M amy Muc RR K, L) amy Gle pleted M dox Dari pleted D dox Dep	yed Mat fatrix (F3 k Surfac Dark Surf pressions	(S9) <b>9B</b> rial (F1) rix (F2) 3) e (F6) face (F7) s (F8)	5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganese Piedmont Flood Mesic Spodic ( Red Parent Mat	w Surface (S8) (LRR K, L) ice (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) Iplain Soils (F19) (MLRA 149B) FA6) (MLRA 144A, 145, 149B) terial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (inch	Layer (if observe	ed):			-		Hydric soil presei	nt?
Remarks:								

	NWI Classification: H(If no, explain in remarks) Are "normal
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present?	
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	
Iron Deposits (B5) Recent Iron Reduction in Tilled Inundation Visible on Aerial Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Imagery (B7) Thin Muck Surface (C7)	Spallow Aquitard (D3)
Sparsely Vegetated Concave Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)	Microtopographic Relief (D4)
Field Observations:	
Surface water present? Yes No Depth (inches):	Indicators of
Water table present? Yes No Depth (inches):	wetland
Saturation present? Yes V No Depth (inches):	hydrology present?
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspe	

Remarks:

VEGETATION - Use scientific names of plan	ts			Sampling Point: 20
Tree Stratum Plot Size () 1 ACCr Shichhim 2	Absolute % Cover	Dominant Species	Indicator Status I-A(W)	50/20 Thresholds       20% 50%         Tree Stratum       /         Sapling/Shrub Stratum       /         Herb Stratum       /
3 4 5 6 7 8				Woody Vine Stratum Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: (A)
9 10	20	Total Cover		Total Number of Dominant Species Across all Strata:(B) Percent of Dominant
Sapling/Shrub Plot Size () Stratum 1 ACCr SCCChGrippm	Absolute % Cover	Dominant Species	Indicator Status T-ACW	Species that are OBL, FACW, or FAC:
2 A Rhommu Cettartica	20		FAC	Total % Cover of:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =
7 <u>Chr.Ja</u> 0061a 8 9 10		Total Cover	<u>1_13(11</u>	UPL species x 5 = Column totals (A) (B) Prevalence Index = B/A =
Herb Stratum Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0*
2 1 3 4 5 6				Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain)
7 8 9				"indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
10 11 12 13				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
14 15		- Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size ( ) Stratum 2	Absolute % Cover	Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft in height.
3 4 5		Total Cover		Hydrophytic vegetation present?
Remarks: (Include photo numbers here or on a sep	arate sheet)			

SOIL					waiting		Sa	mpling Point: 20
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicate	or or confirm the absence	
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	lox Feal %	tures Type*	Loc**	Texture	Remarks
0-4	10-12-212	100					Siltivan	*****
	- 1 cape							
4-9	VYR2/2	95	10-1R 4/4	J	C	M	Silt /Jan	· · · · · · · · · · · · · · · · · · ·
9-20	10-12-12	90	Vornala	70	C	M	Clautoan	
	Concentration, D PL=Pore Lining			ed Matri	x, CS=C	overed	or Coated Sand Grains	
Hydric So	il Indicators:						Indicators for Prob	lematic Hydric Solls:
	drogen Sulfide (/ ratified Layers (A pleted Below Da ick Dark Surface ndy Mucky Mine ndy Gleyed Matri ndy Redox (S5) ripped Matrix (S6 rrk Surface (S7) <b>9B</b> ) of hydrophytic v	5) rk Sufac (A12) ral (S1) ix (S4) ) (LRR R,	Loa ce (A11)(LF De Rec Rec Rec	Imy Mu IR K, L) Imy Gle bleted N dox Dar bleted D dox Dep	yed Mat Matrix (F: k Surfac Dark Surf pressions	eral (F1) rix (F2) 3) e (F6) face (F7) s (F8)	Thin Dark Surfa Iron-Manganese Piedmont Flood Mesic Spodic (T Red Parent Mat	v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (TF2) ark Surface (TF12) n Remarks)
Restrictive Type: Depth (incl	Layer (if observented)	ed):			-		Hydric soil preser	n7 <u>+</u>
Remarks:								





**Natural Resources Conservation Service** 

Web Soil Survey National Cooperative Soil Survey

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AtA	Ashkum silty clay loam, 0 to 2 percent slopes	12.6	23.9%
BIA	Blount silt loam, 1 to 3 percent slopes	1.9	3.7%
Ht	Houghton muck, 0 to 2 percent slopes	4.1	7.7%
OzaB	Ozaukee silt loam, 2 to 6 percent slopes	20.4	38.6%
OzaB2	Ozaukee silt loam, 2 to 6 percent slopes, eroded	6.6	12.5%
OzaC	Ozaukee silt loam, 6 to 12 percent slopes	0.1	0.2%
OzaC2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	5.6	10.6%
OzaD	Ozaukee silt loam, 12 to 20 percent slopes	1.5	2.8%
W	Water	0.0	0.0%
Totals for Area of Interest		52.7	100.0%

# Map Unit Legend



Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
AtA: Ashkum silty clay loam, 0 to 2 percent slopes	Ashkum-Drained	85-100	End moraines,ground moraines	Yes	2
	Peotone-Drained	0-9	Depressions on ground moraines	Yes	2
	Orthents, clayey	0-3	Ground moraines,lake plains	No	
	Urban land	0-3	Ground moraines	No	-
BIA: Blount silt loam, 1 to 3 percent slopes	Blount	95	Moraines	No	-
	Ashkum	5	Depressions	Yes	2,3
Ht: Houghton muck, 0 to 2 percent slopes	Houghton-Muck	84-95	Depressions	Yes	1,2,3
	Houghton-Ponded	2-5	Depressions	Yes	1,3
	Palms	1-3	Lakebeds (relict)	Yes	1,3
	Adrian	1-3	Lakebeds (relict)	Yes	1,3
	Edwards	1-2	Depressions	Yes	1,3
	Willette-Muck	0-3	Depressions	Yes	1,3
OzaB: Ozaukee silt loam, 2 to 6 percent slopes	Ozaukee	88-100	End moraines,ground moraines	No	
	Pewamo-Drained	0-7	Depressions on ground moraines,drainage ways on ground moraines	Yes	2
	Ashkum-Drained	0-7	End moraines,ground moraines	Yes	2
	Urban land	0-5	Ground moraines	No	-
OzaB2: Ozaukee silt loam, 2 to 6 percent slopes, eroded	Ozaukee-Eroded	88-100	End moraines,ground moraines	No	
	Ashkum-Drained	0-7	End moraines,ground moraines	Yes	2
	Pewamo-Drained	0-7	Depressions on ground moraines,drainage ways on ground moraines	Yes	2
	Urban land	0-5	Ground moraines	No	-
OzaC: Ozaukee silt loam, 6 to 12 percent slopes	Ozaukee	88-100	End moraines,ground moraines	No	-
	Blount-Lake mighican lobe	0-9	End moraines,ground moraines	No	-
	Urban land	0-5	Ground moraines	No	

## **Report—Hydric Soil List - All Components**

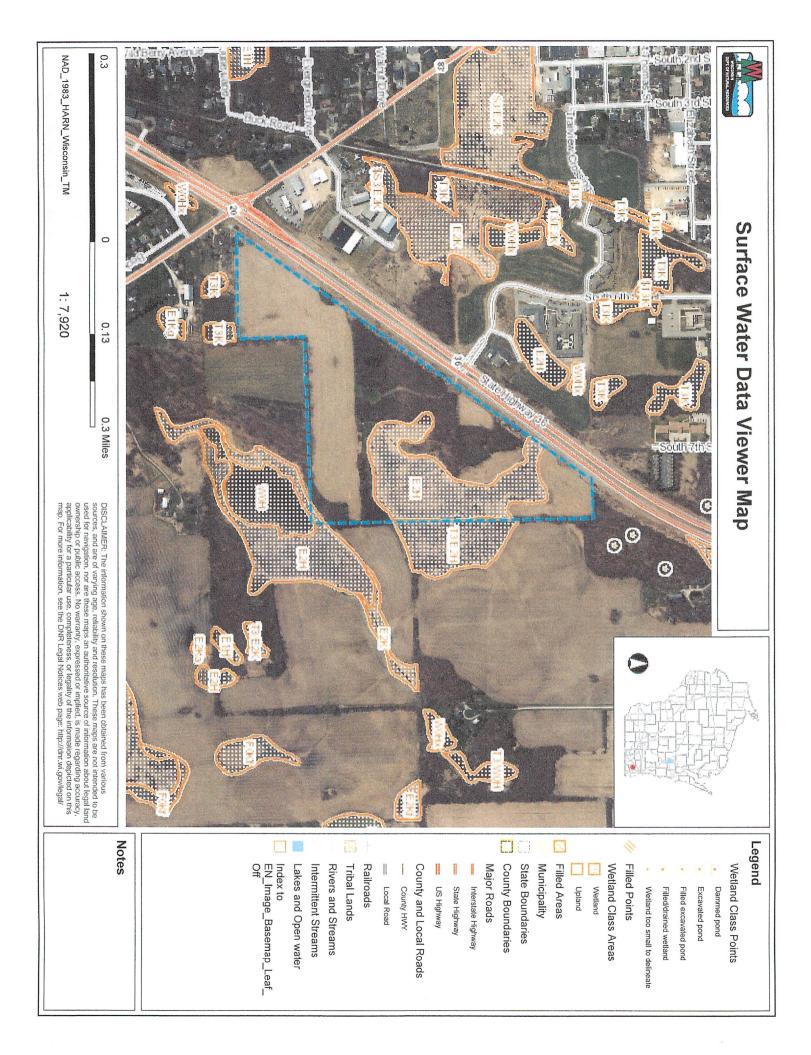


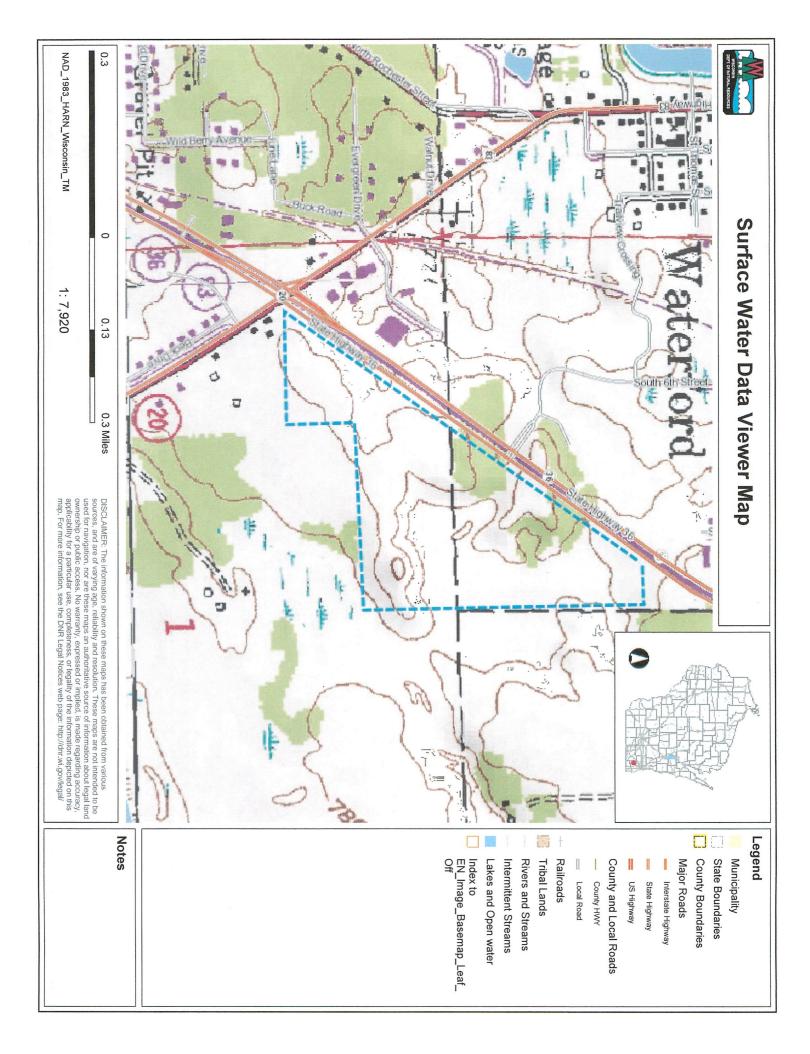
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)	
OzaC2: Ozaukee silt loam, 6 to 12 percent slopes, eroded	Ozaukee-Eroded	88-100	End moraines,ground moraines	No	-	
	Blount-Lake mighican lobe	0-7	End moraines,ground moraines	No	-	
	Urban land	0-5	Ground moraines	No		
	Ozaukee-Severely eroded	0-5	End moraines,ground moraines	No	-	
OzaD: Ozaukee silt loam, 12 to 20 percent slopes	Ozaukee	91-100	End moraines,ground moraines	No		
	Blount-Lake mighican lobe	0-9	End moraines,ground moraines	No	-	
W: Water	Water	100		Unranked	-	

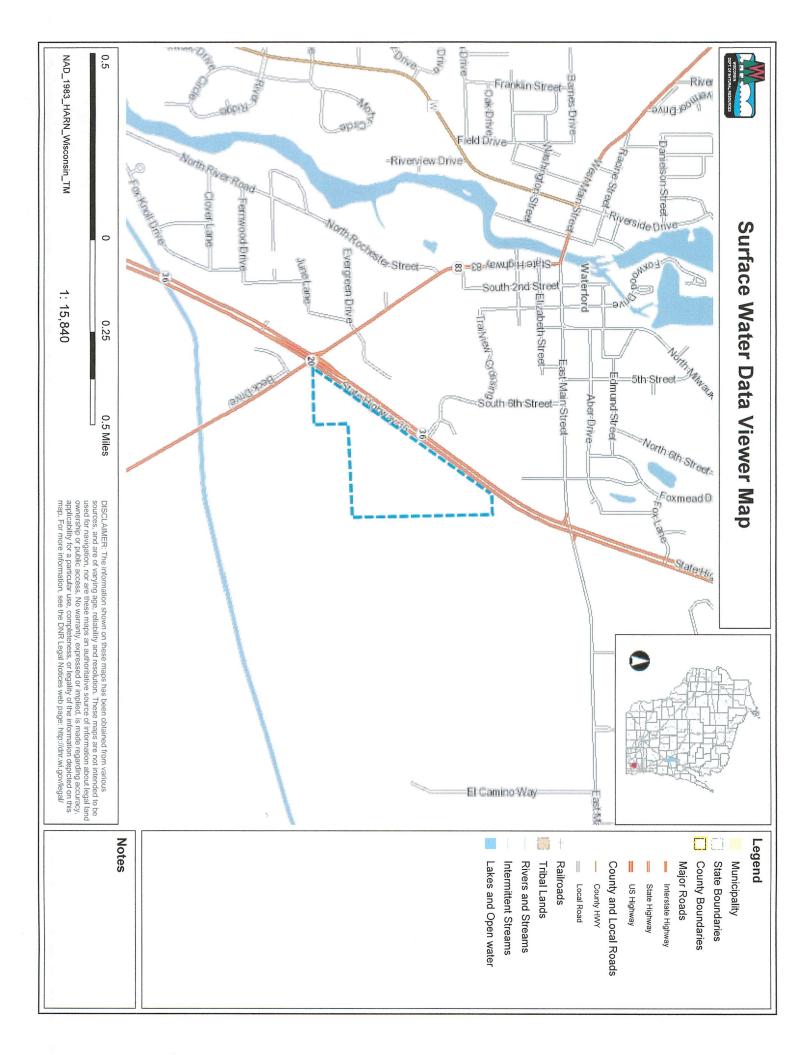
### Data Source Information

Soil Survey Area: Kenosha and Racine Counties, Wisconsin Survey Area Data: Version 14, Oct 6, 2017



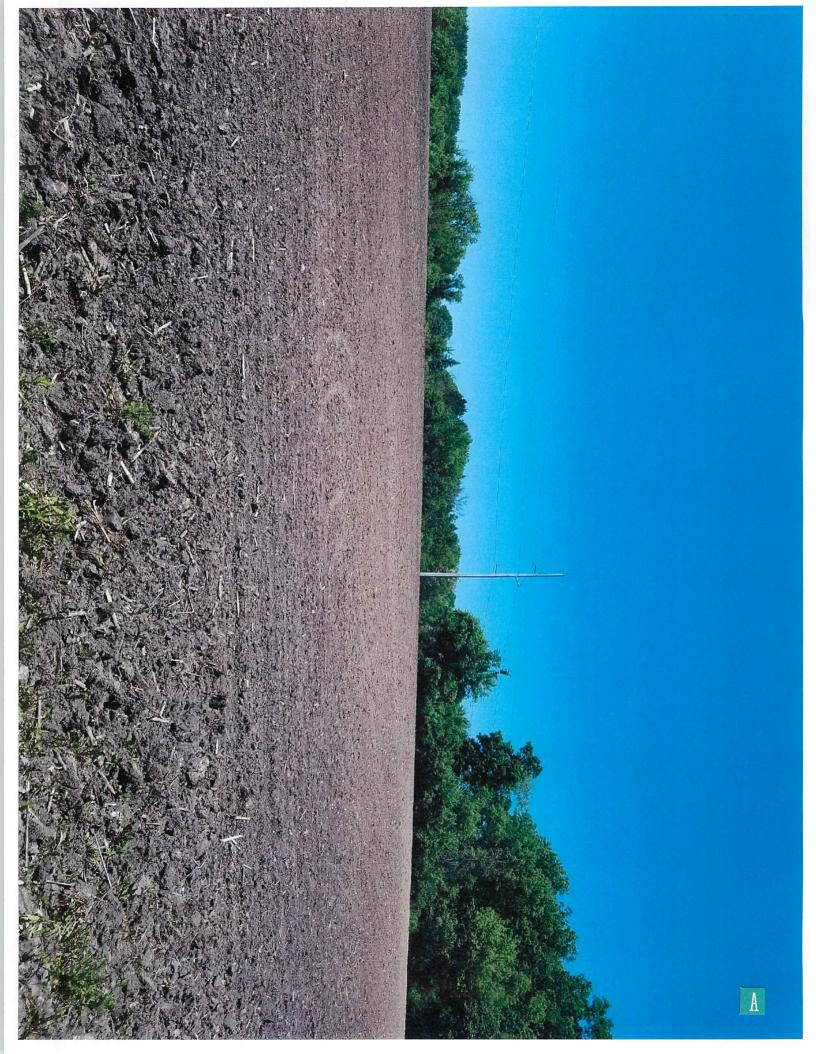


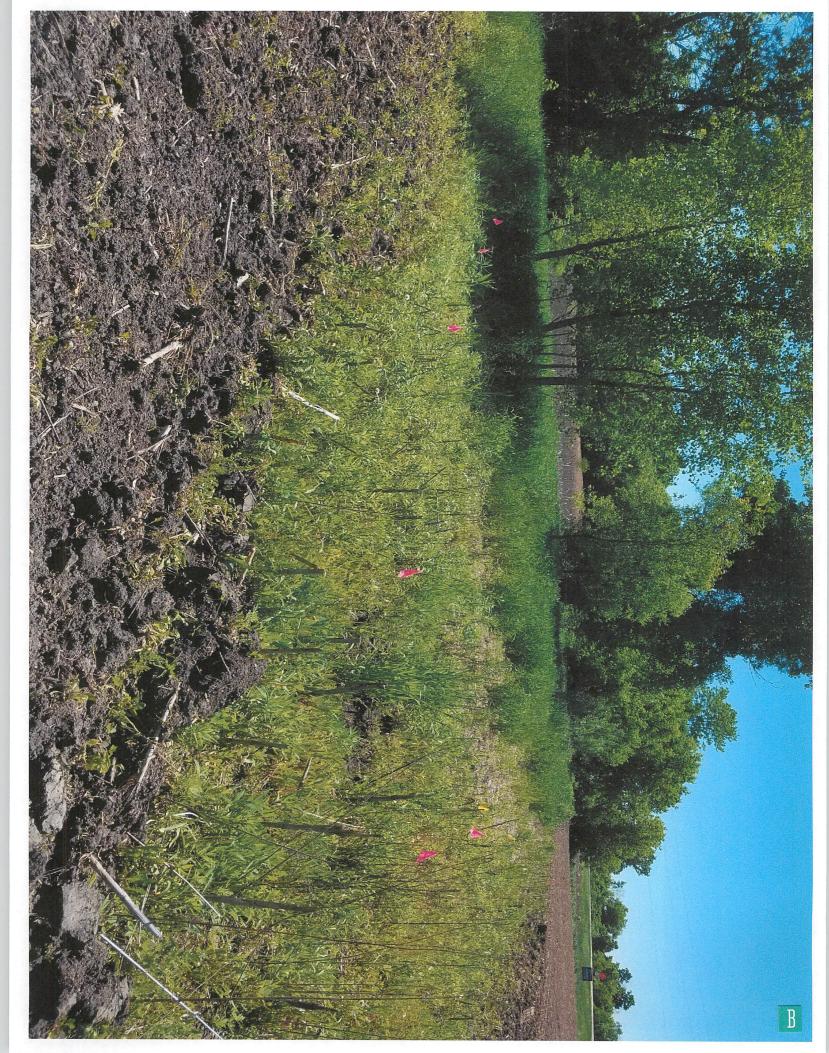


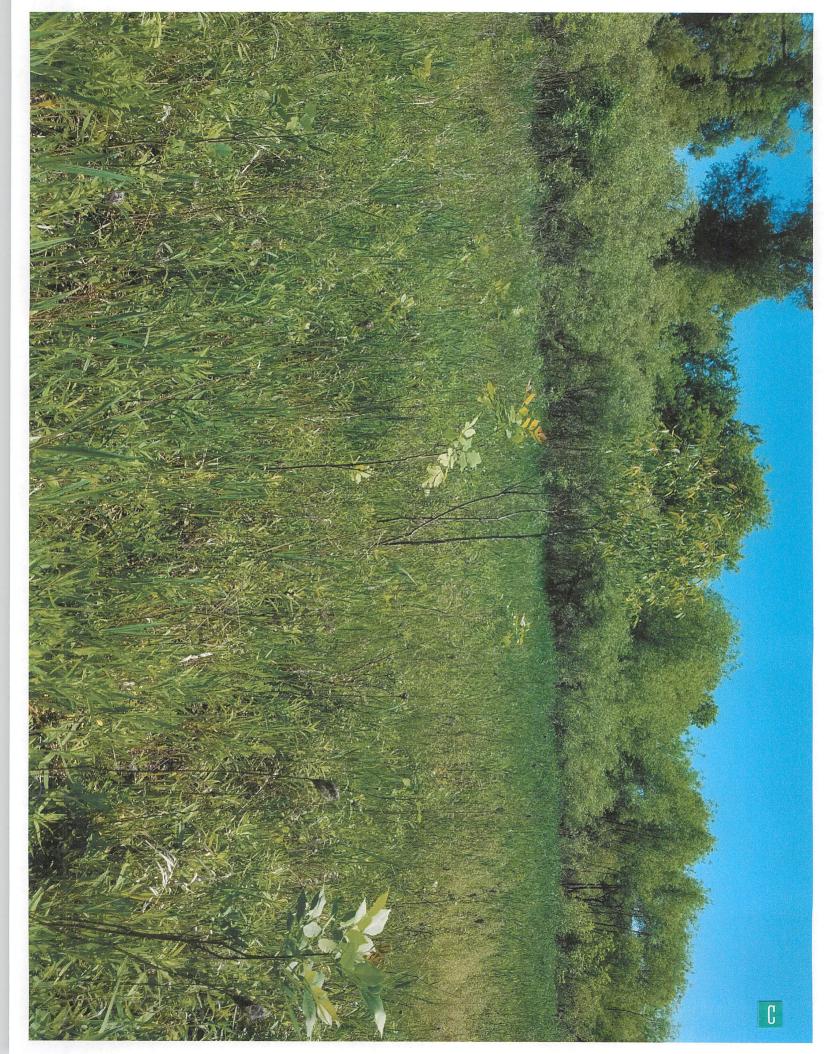


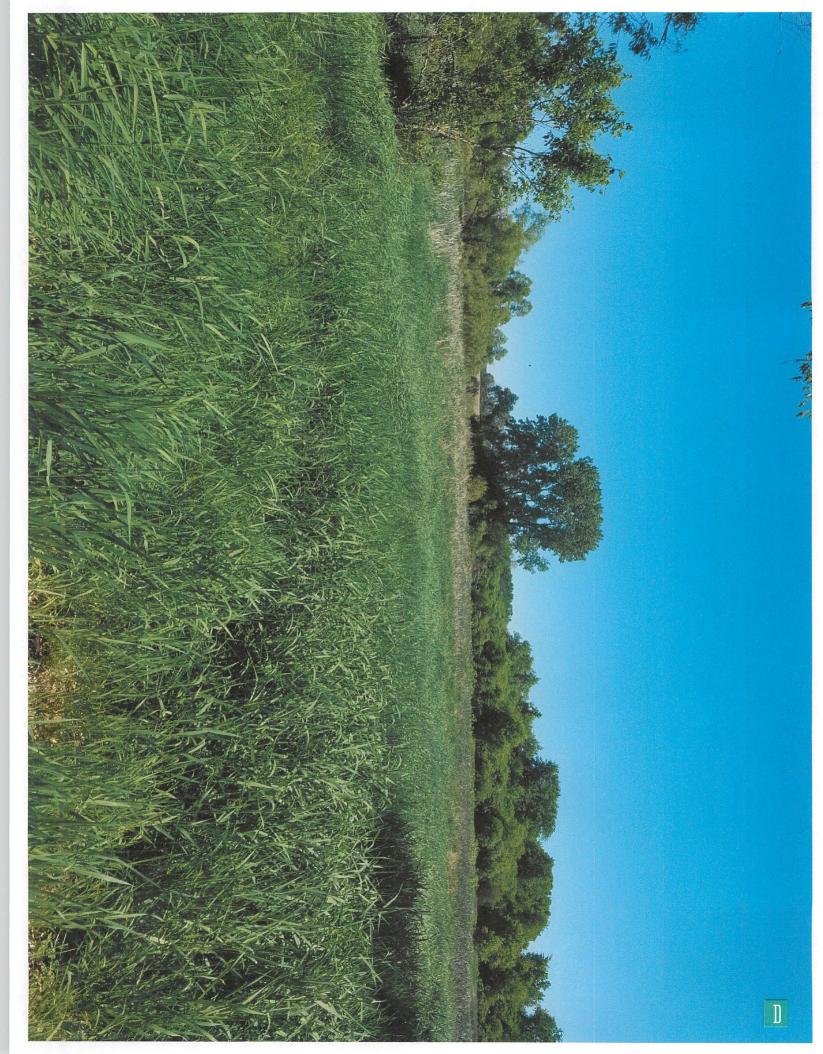
## PHOTOGRAPHS

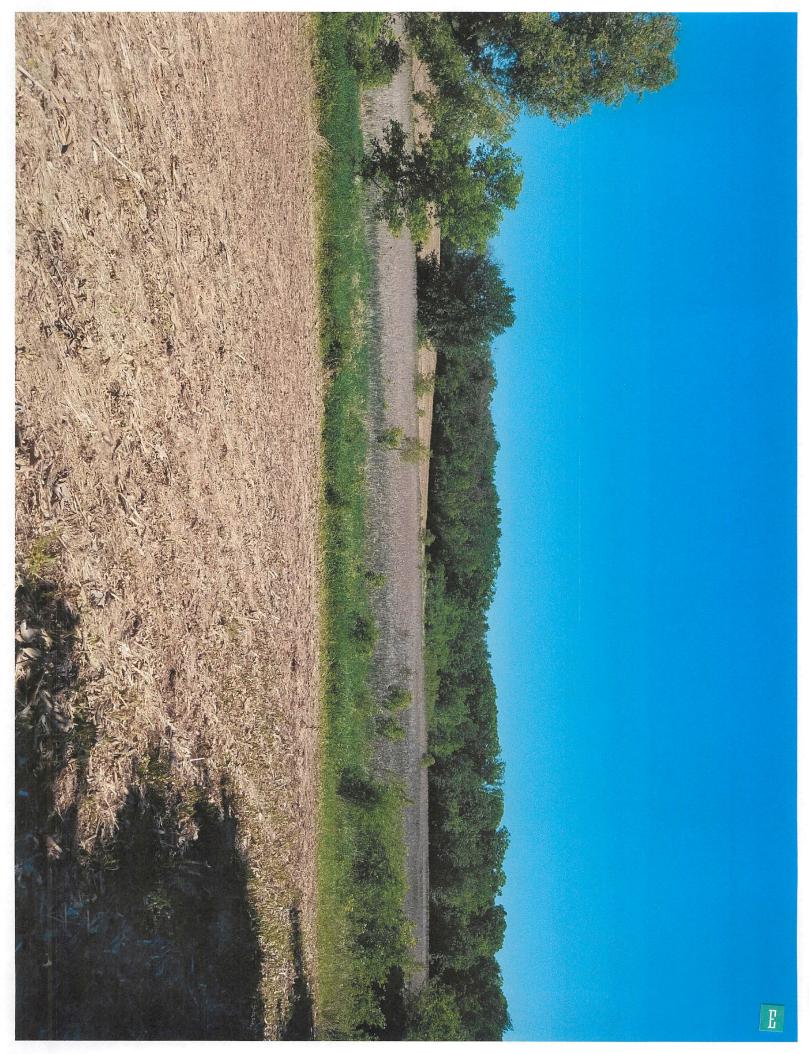
Photo ATypical view of upland cropped fields in mapped PC areas throughout the site.
Photo BView of site conditions at DP #3, Wetland A.
Photo CView of site conditions at DP #5, Wetland A. This area is mapped as PC but has not been cropped regularly and has reverted to wetland.
Photo DViewing north across DP #7, Wetland A.
Photo EViewing southeast across DP #8, Wetland A.
Photo FViewing southwest across Wetland B in vicinity of DP #11.
Photo GTypical view of drowned-out conditions at DP #'s 15, 17, and 19, Wetlands D, E, and F.
Photo HTypical view of Wetland C.

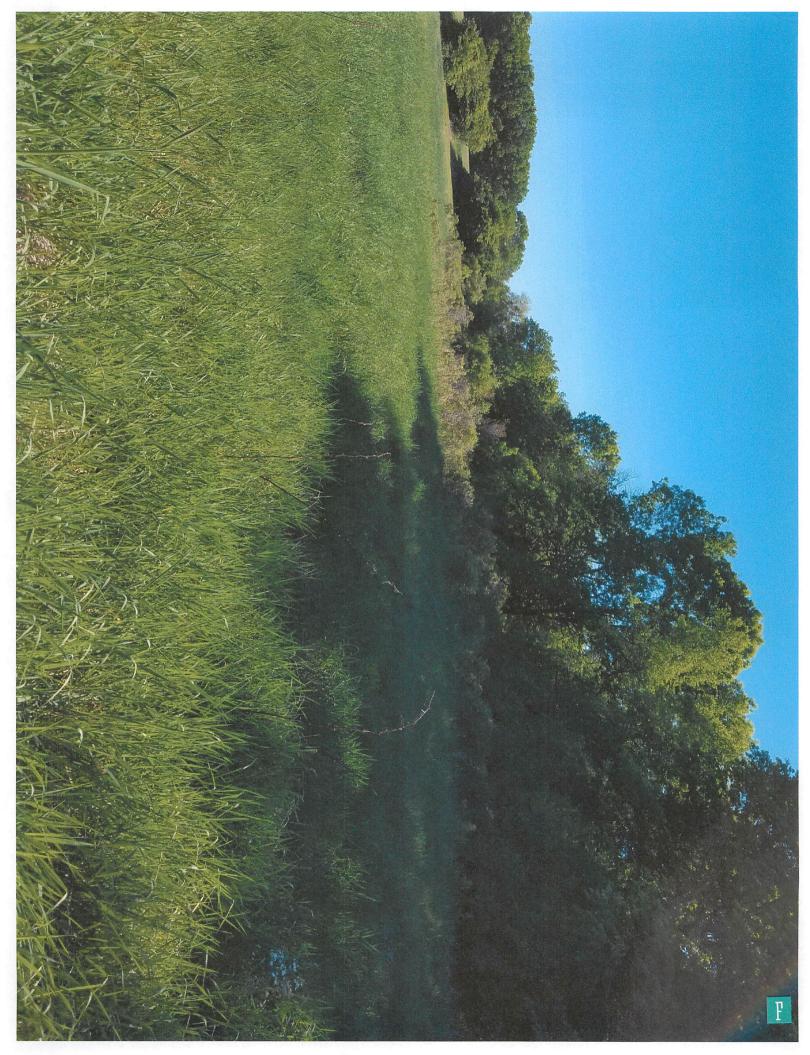


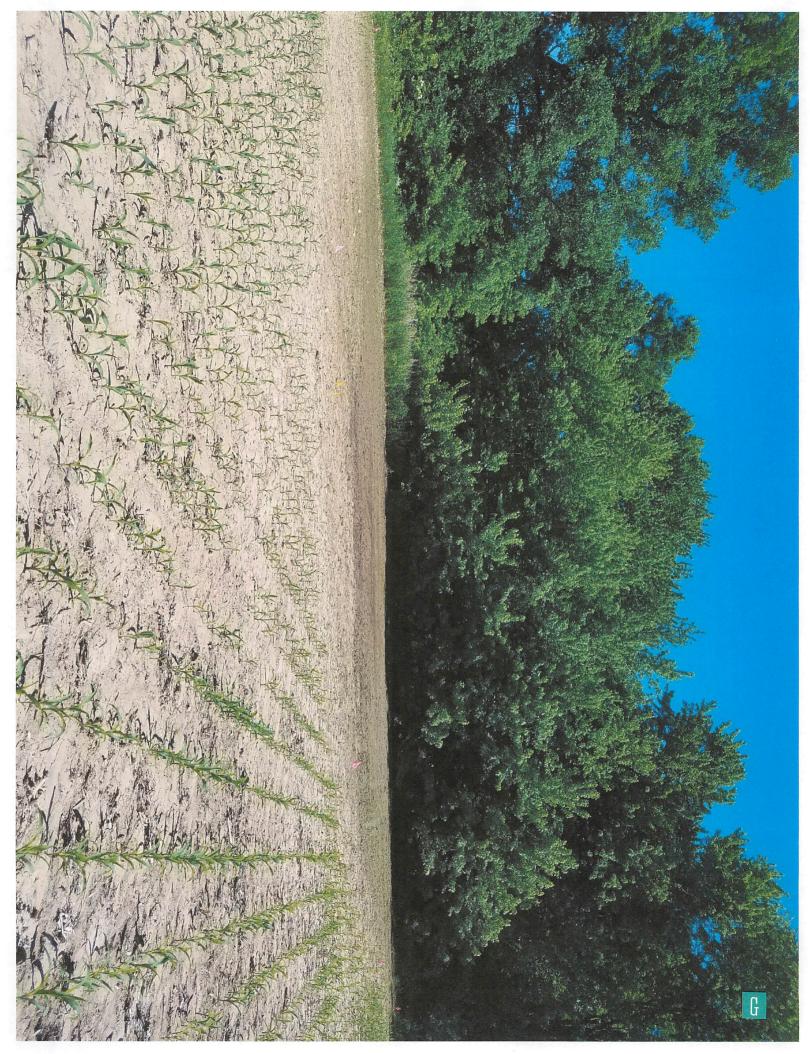














NRCS-CPA-32W (6-9-06)

		UMENTATION RECORD	
	Remotely Se	ensed Data Summary	
Owner/Operator: -	Water-Ford	County: R&C	state Wi
Slide Reviewer: -	Meyer		Date: 4-15-18
Site Identification	No. Radington	WI 1205	(Tract No. + Site No.)

## Farm Service Agency (or Other) Aerial Slide Data

Date (Mo./Yr)	Rainfall (in) +D/N/W (Apr-June ave. = 9,98)	1	Interp 2	pretation- (c	odes listed	in box belo	w) 6	7
4/2017	14.63W	NCR	TCR Gd	YAC 61	ycr6J	YCR.6J	YCR 6d	NCR
6/2015	11.19 N	MCR	JUR 6d	Y NIC 60	YCIZ 6J	YCRGE	YCR6d	NCR
4/2014	16.06W	NCR	YUR 60	YNIC 61	NCR	74265	AICR	NCR
1106/5	10,61 N	LICR	YURGO	YAIC 66	Har	YCR 66	NOR	MCR
5/2010	12.69 N	NCR	NCR	YNC 66	NCR	YCR 6J	NCR	HCR
9/2008	12.97 N	NCR	YCR 6a	YNC Ga	NCR	NCR	NCR	NCR
10/2007	10.09 N	MAR	NCR	ANCCO	NCR	YCR66	JCRG	NCR
9/2006	12.59 N	YCR65	NOR	YAIC 65	VCR60	YCR 6b	YCR62	YCR6J
9/2005	5,42D	NCR	YNC 60	TAC 60	NCR	ALCR	NICR	YGR Ga
412000	18.16 W	YCR 62	YCR 60	YNC 6G	MCR	JCR6d	LICR	YCRG
				1				

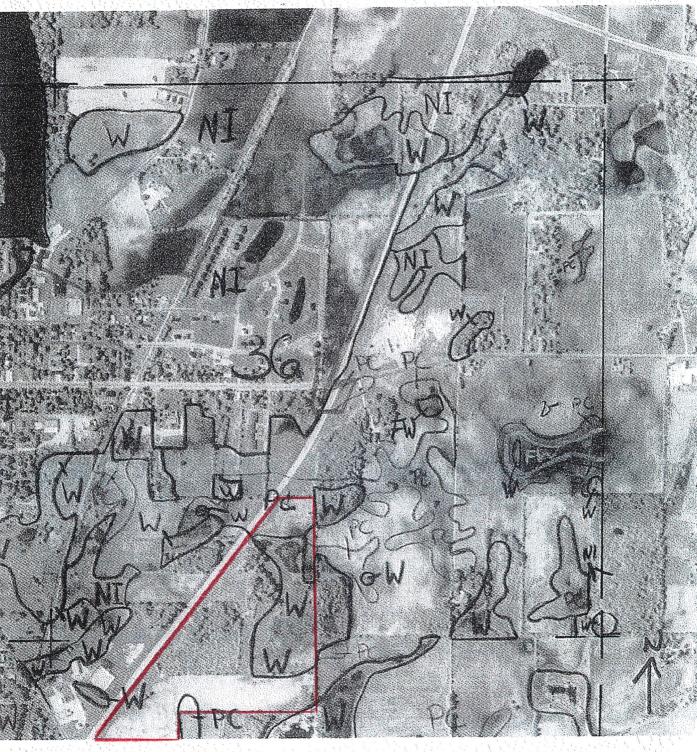
Air Photo

Y = Yes, signal indicates wetness (+ = strong, - = weak)		N = No wetness signature		
CR = cropped (row crop or tilled)		NC = not cropped (hay, pasture, idle, etc.)		
Feature 1 = water 2 = mud flat 3 = bare spot 4 = drowned crop 5 = planted late	Color 6a = dark green 6b = light green 6c = yellow 6d = brown 6e = black	<u>Manipulation (y</u> ear of installation) 7a = ditched 7b = tiled 7c = filled 7d = tree/brush removal 8 = plowed/tilled	Other write explanation	

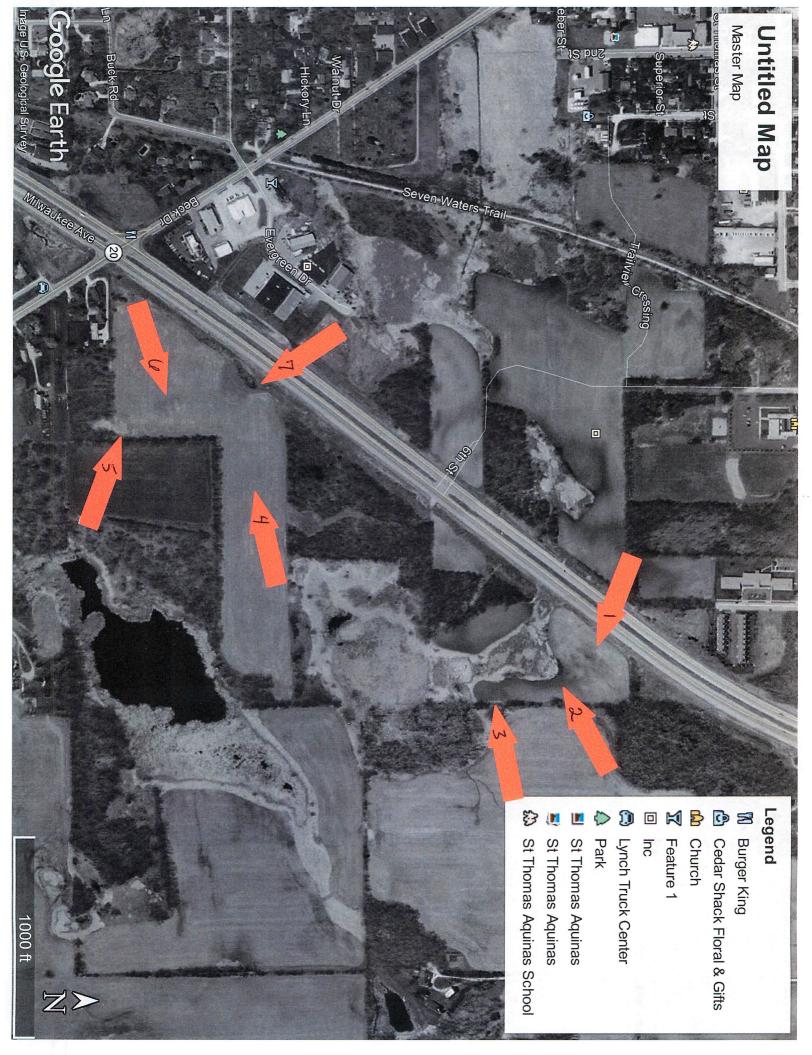
Does slide/air photo data indicate the site is a wetland? 0Yes 0N o

# 2	years out of #/O	_years observed have wet (Y) signatures. For Area 1 11 For Area 2 5 Area 3	-
7	11 10	11 Fur Arca	2
10	10	For Aren 3	
3	10	Fur Arca 4	~
8	10	For Arec S	
	10	tur Area 6	<u> </u>
3	/0	For Area 7	)

Waterford S. 36 DRAFT - Subject To Change WETLAND DELINEATIONS ARE FOR FOOD SECURITY ACT PURPOSES ONLY











1000 ft



7/2011

C

gle Earth

1000 ft

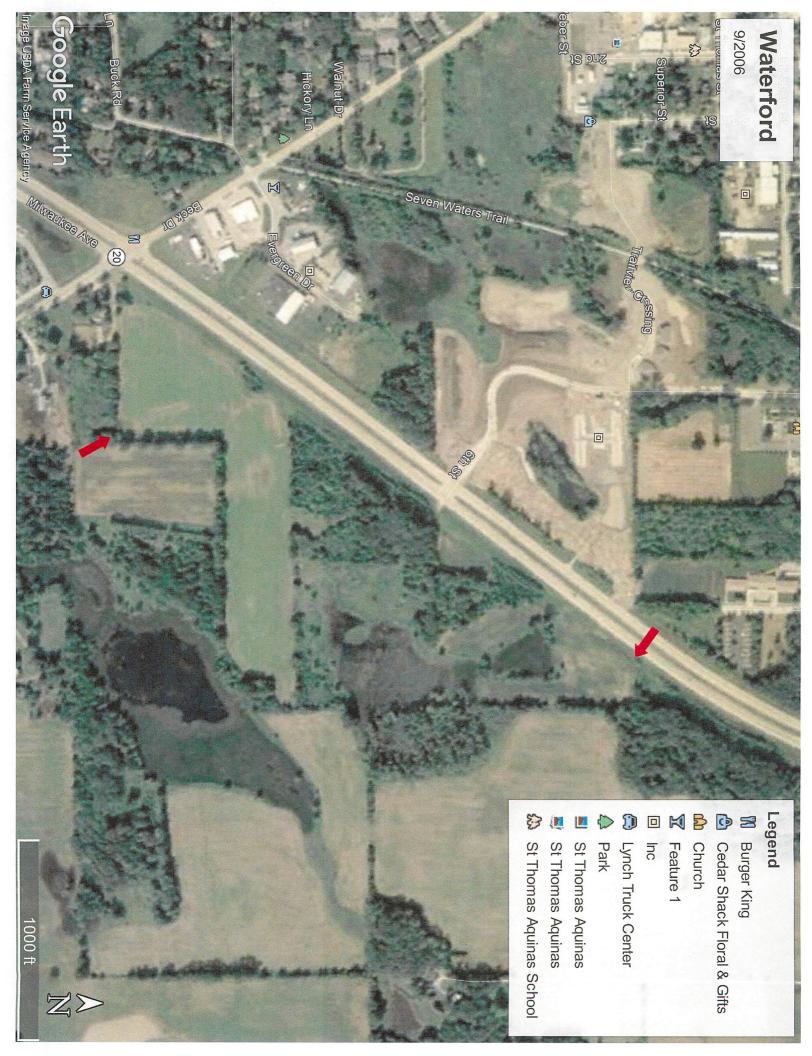
Z>

Waterford

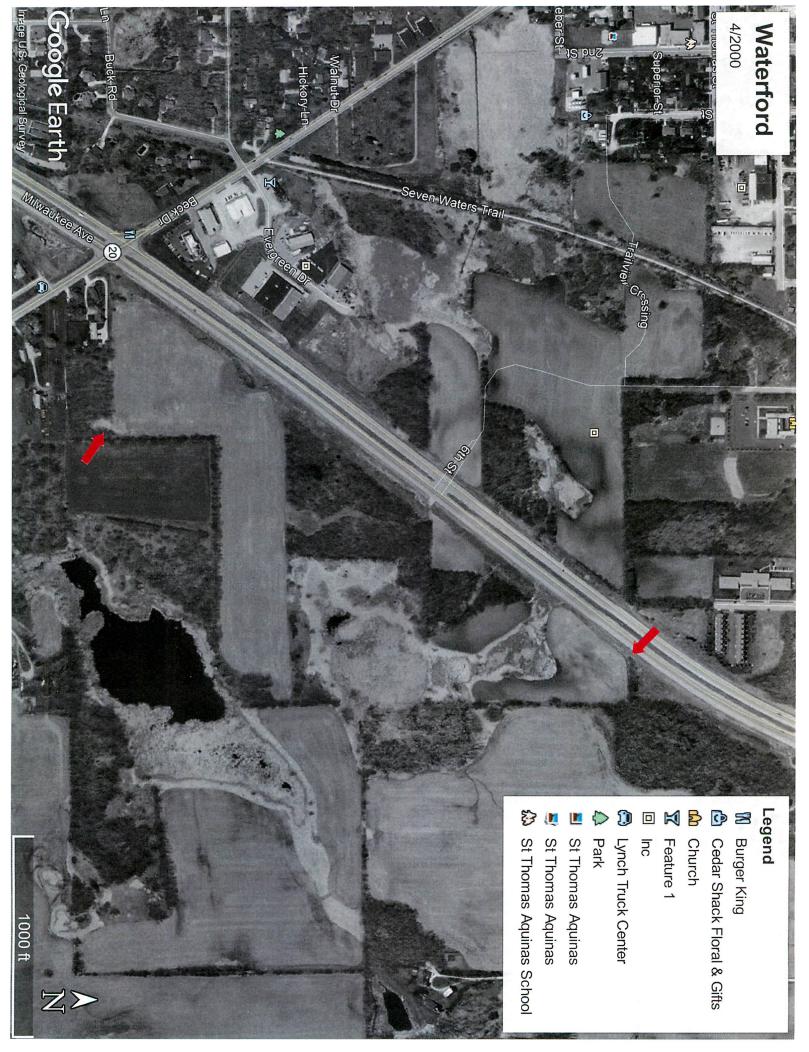












## LITERATURE CITED

- Curtis, John. 1971. The Vegetation of Wisconsin. University of Wisconsin Press, Madison, Wisconsin. 173 pp.
- Eggers, Steve and Donald Reed. 2011. Wetland Plants and Plant Communities of Minnesota and Wisconsin 3rd Edition. St. Paul District, U.S. Army Corps of Engineers, St. Paul, MN 478 pp.
- Peterson, Roger and Margaret McKenny. 1968. A Field Guide to Wildflowers of Northeastern and Northcentral North America. Houghton Mifflin Company, Boston, Mass. 420 pp.

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Swink, Floyd and Gerould Wilhelm. 1994. Plants of the Chicago Region. The Morton Arboretum, Lisle, Illinois. 921 pp.

## WETLAND DELINEATION CONFIRMATION REQUEST CHECKLIST

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Introductory Section

- Why the delineation was undertaken
- Date the field work was completed
- Who conducted the fieldwork
- Qualifications

Methods used during the wetland delineation

- Description of methods
- Sources Reviewed (WWI mapping, Soil Survey, etc.)
- Description of any site specific agency guidance (site meetings, etc.)



Results and Discussion

- Antecedent hydrologic condition analysis
- Previous wetland delineation mapping
- Existing environmental mapping (WWI mapping, Soil Survey, etc.)
- Amount and types of wetland located within the project area
- Discussion explaining how the wetland/upland boundary was differentiated
- Disturbed and problematic areas encountered during the delineation
- Other water resources located in the project area (navigable streams, etc.)

Topographic mapping

WWI mapping

Soil survey mapping

Wetland Delineation map

Data Forms

Site Photos

Previous delineation information

FSA Slide Review

Literature Cited

