Attachment 5. Wetland Delineation Report.

Wetland Delineation Report: LanzaTech



Prepared for:

LanzaTech

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Wenck Associates, Inc. (Wenck) staff conducted wetland delineations for LanzaTech on a site of approximately 282 acres west of Soperton, Georgia (Figure 1). Field work was conducted July 17-20 and September 3-7, 2018.

1.1 SITE DESCRIPTION

Most of the project area lies north of Commerce Drive and west of Knox Mill Road with a small southern portion also between Commerce Drive and the Seaboard Coastline railway. A portion of the northeast part of the project site connects with Georgia State Highway 78.

The lower elevations of the site are characterized by wooded wetlands associated with streams that generally run to the southwest and connect off-site to Rocky Creek (which is a tributary of Red Bluff Creek), although the stream that runs through Wetland B off-site to the east runs to the southeast because of a drainage divide east of the site. Higher elevations of the site include the LanzaTech facility itself, fallow old field areas and pine plantations. The LanzaTech plant is located approximately in the middle of the site and a road access is provided from Commerce Drive to the south.



Wetlands are defined in the Federal Register (1982) as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

An area must have 3 elements present in order to be delineated as a wetland:

- 1) Greater than 50% dominance of hydrophytic plant species.
- 2) A hydric soil substrate.
- 3) Wetland hydrology during the growing season.

This wetland investigation was conducted by using the on-site methodology set forth in the 1987 U.S. Army Corps of Engineers (COE) Wetlands Delineation Manual (1987 Manual) and the 2010 U.S. Army Corps of Engineers Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0) (Regional Supplement). Potential wetland areas were examined according to guidelines set forth in these documents and wetland boundaries were determined through analysis of the vegetation, soils, and hydrology.

Plant species at both wetland and upland transect points were identified and assigned a wetland indicator status according to the North American Digital Flora: National Wetland Plant List, version 2.4.0 U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH, and BONAP, Chapel Hill, NC. (2016). In the text of this report and on the enclosed data forms, the plant indicator status follows the plant's scientific or common name unless a status has not been assigned. According to the 1987 Manual and Regional Supplement, the hydrophytic plant criteria are met when more than 50% of the dominant species within the vegetative strata were assigned an obligate (OBL), facultative wet (FACW), or facultative (FAC) wetland status.

The presence of current wetland hydrology was determined through direct observation of the primary or secondary wetland hydrology indicators as defined in the 1987 Manual and Regional Supplement. The presence of a single primary indicator is sufficient to conclude that wetland hydrology is present. The observation of two or more secondary wetland hydrology indicators is required to conclude that wetland hydrology is present.

Hydric soils were determined through use of NRCS Field Indicators of Hydric Soils in the United States (Version 8.2). Soils were examined and classified by digging soil pits at sample point transects using a Dutch auger. If the soils exhibited indicators of hydric soils as defined by USDA Soil Conservation Service (1994) - a soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part - they were determined to be hydric.

Waterbodies (water features that lack all three wetland parameters) were delineated as non-wetland surface waters based on the presence of a bed/bank and a recognizable Ordinary High Water Mark (OHWM). The most common indicators of the OHWM were 1) the



point at which aquatic vegetation transitioned to upland vegetation, 2) erosion lines along the stream bank, and 3) the highest point at which vegetation had been removed due to scouring or prolonged ponding. Small unnamed streams were present within some of the wetland branches and a wet ditch that drains into Wetland E was identified and located on the south side of the site.

Data sheets were completed for each wetland investigation point and are included in Appendix A. Delineated wetland boundaries were located with sequentially-numbered surveyor pin flags and located with a handheld sub-meter GPS unit. The GPS data were then used to create the wetland boundary shapefiles in ArcMap as presented in the report figures.



3.1 OFFSITE INVESTIGATION

The National Wetlands Inventory (NWI) and National Hydrologic Dataset (NHD) (Figure 2) indicate the presence of several wetlands and waterbodies generally in alignment with the field delineation. The field delineation resulted in the delineation of more area than is shown on the NWI, mainly due to the variable width of the riparian floodplain forest wetland associated with streams on the site.

The NRCS Soil Survey (Figure 3) indicates the presence of hydric soils in and around all of the delineated wetlands. Hydric mapped units include Alluvial land and Plummer sand.

Precipitation at the time of the original site visit in July was normal during the prior period, albeit on the high side of the normal range. Antecedent precipitation prior to the September site visit was at the lower end of the normal range. WETS tables for Treutlen County, GA are provided in Appendix B.

3.2 ONSITE INVESTIGATION

3.2.1 Wetlands and Streams

The boundaries or partial boundaries of five wetlands (Wetlands A – E per Figure 4) and the approximate centerlines of three unnamed streams and one wet ditch were delineated within the surveyed areas (Figure 4).

Wetland A

Wetland A is the largest wetland on the site and has branches that spread throughout much of the area south of the existing ethanol plant. The wetland is associated with an unnamed tributary of Rocky Creek. During Wenck's investigation in July and September, the creek channel had water throughout which varied in depth from a few inches to approximately one foot. The stream averages approximately four feet in width and the on-site portion measures 2,899 linear feet. Other branches of Wetland A contain irregular channels which are sometimes singular but braided in other locations. Because of their inconsistency, they were not mapped out separately. The wetland varies in width along either side of the main stream channel and the channel becomes braided in some of the broader, flatter areas of the wetland. Greenbriar (*Smilax rotundifolia*) is common throughout this forested wetland and in the forested adjacent uplands.

Data were collected in three transects along Wetland A's boundary as shown in Figure 4. Dominant wetland vegetation at Transect 1 includes black willow (*Salix nigra*, OBL), red maple (*Acer rubrum*, FAC) and sensitive fern (*Onoclea sensibilis*, FACW). Soils in the wetland exhibited a dark sandy loam surface over depleted sand and met Hydric Indicator A11. Hydrology indicators included Surface Water (A1), High Water Table (A2), Saturation (A3), Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes water oak (*Quercus nigra*, FAC), flatwoods plum (*Prunus umbellate*, NI), bahiagrass (*Paspalum notatum*, FACU), and swordfern (*Macrothelypteris torresiana*, FACW). Upland soils exhibited light sandy loam and loamy sands with no hydric



indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately five percent.



Wetland A Transect 1 Looking North Into Wetland

In the second transect along Wetland A's southeast lobe, dominant vegetation in the wetland includes sweetgum (*Liquidambar styraciflua*, FAC) and swamp titi (*Cyrilla racemiflora*, FACW). Soils in the wetland exhibited a dark sandy loam surface over depleted loamy sands with redoximorphic features and met Hydric Indicator A11. Hydrology indicators included Surface Water (A1), High Water Table (A2), Saturation (A3), Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes sweetgum, water oak and false maiden fern (*Macrothelypteris torresiana*, FACU). Upland soils exhibited brown sandy loam over lighter loamy sands with no hydric indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately five percent.

This riparian wetland is associated with a shallow stream channel which appears to receive water from a pond on the east side of Knox Mill Road.





Wetland A Transect 2 at Wetland Sample Point

In the third transect along Wetland A's north-central boundary, dominant vegetation in the wetland includes sweetgum, sweetbay (*Magnolia virginiana*, FACW), and a fern believed to be ebony spleenwort (*Asplenium platyneuron*, FACU). Soils in the wetland exhibited a dark sandy loam surface over depleted loamy sands with redoximorphic features and met Hydric Indicator A11. Hydrology indicators included Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes sweetgum, water oak and a fern believed to be blackstem spleenwort (*Asplenium resiliens*, NI). Upland soils exhibited brown sandy loam over lighter loamy sands with no hydric indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately five percent.





Wetland A Transect 3 Near Wetland Sample Point

Wetland B

Wetland B encroaches somewhat into the northeast boundary of the parcel. The forested wetland is associated with a shallow stream that is outside the property boundaries and drains to the southeast from the site.

Data were collected in a transect along the basin's west boundary as shown in Figure 4. Dominant wetland vegetation in the wetland includes sweetgum, wood nettle (*Laportea canadensis*, FACW), and sensitive fern. Soils in the wetland exhibited a dark sand surface over depleted sand and met Hydric Indicator A11. Hydrology indicators included High Water Table (A2), Saturation (A3), Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes water oak, sweetgum, long-leaf pine (*Pinus palustris*, FACU), red maple, and muscadine (*Vitis rotundifolia*, FAC). Upland soils exhibited light sandy horizons throughout the profile with no hydric indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately five percent.





Wetland B at Transect Looking Southeast Into Wetland

Wetland C

Wetland C is located in the northeastern part of the site. It is an isolated wetland and is not associated with a stream. The wetland did not have standing water on the day of observance. It is a natural depressional area that was perhaps at one time connected with Wetland B.

Data were collected in a transect along the basin's north boundary as shown in Figure 4. Dominant wetland vegetation in the wetland includes a heavy representation of red maple with only sparse amounts of a species of sedge (*Carex spp*.) in the herbaceous layer. Soils in the wetland exhibited a dark loamy surface over depleted loams with redoximorphic features which met Hydric Indicator A11. Hydrology indicators included Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes water oak, sweetgum, long-leaf pine, willow oak (*Quercus phellos*, FACW) and cherry-bark oak (*Quercus pagoda*, FACW) seedlings. Upland soils exhibited brown sands over lighter colored sands with no hydric indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately five percent.





Wetland C at Transect Looking South Into Wetland

Wetland D

Wetland D is a forested wetland associated with a shallow stream in the northwestern part of the site. The stream and wetland complex continue off the site to the south and eventually connect to Rocky Creek. The stream averages approximately one foot in depth and three feet in width and becomes indiscernable at the south end of the area delineated where it becomes a broad hardwood swamp (see photo below). The on-site portion of the stream measures 2,745 linear feet.





South End of Wetland D

Data were collected in a transect near the east end of the wetland as shown in Figure 4. Dominant wetland vegetation in the wetland includes sweetgum, red maple and a species of sedge (*Carex spp*.). Soils in the wetland exhibited a dark sandy loam surface over depleted sand with redoximorphic features and met Hydric Indicator A11. Hydrology indicators included Aquatic Fauna (B13-snail shells), Drainage Patterns (B10), Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes cherry-bark oak, sweetgum, long-leaf pine, red maple, as well as greenbriar and muscadine vines. Upland soils exhibited dark sand over lighter colored sand with no hydric indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately five percent.





Wetland D Looking East at Transect

Wetland E

Wetland E is located in the southwestern portion of the site south of Commerce Drive. Wetland E is connected to Wetland A via a culvert under Commerce Drive and is also associated with the unnamed stream tributary that connects with Rocky Creek off-site. The wetland includes a narrow forested finger on its southeastern portion that is associated with a small ephemeral tributary. The western portion of the wetland is an emergent marsh with surrounding forested wetland.

Data were collected in a transect along the basin's northwest boundary as shown in Figure 4. Dominant wetland vegetation in the wetland includes sweetbay, broad-leaved arrowhead (*Sagittaria latifolia*, OBL) and a species of smartweed (*Persicaria spp*.). Soils in the wetland exhibited a dark silt loam surface over depleted loam with redoximorphic features and met Hydric Indicator A11. Hydrology indicators included High Water Table (A2), Saturation (A3), Geomorphic Position (D2) and FAC-Neutral Test (D5). Dominant vegetation in the adjacent upland includes sweetgum, long-leaf pine, and false maiden fern. Upland soils exhibited light sandy horizons throughout the profile with no hydric indicators. No indicators of wetland hydrology were present in the upland which was on a slope of approximately eight percent.





Wetland E at Transect Looking Into Wetland

Detailed information on the vegetation, hydrology and soils characteristics of each wetland are included in Appendix A.

Stream 1

Stream 1 is associated with Wetland A. The east end of this stream has its origins from a pond on the east side of Knox Mill Road and flows west through the site, beneath Commerce Drive and into Wetland E. Stream 1 varies in width but is estimated to average approximately four feet in width. Water depth averaged approximately a few inches to one foot during our field work.

Stream 2

Stream 2 is associated with Wetland D on the northwest side of the property and runs to the southwest. There was standing water in the channel during our September 2019 field work but the stream had no active flow. The width of the standing water within the channel was estimated to average approximately eight feet and the depth was estimated to be between one and two feet.

Wet Ditch

A road ditch is present just south of Parkview Drive. The ditch drains to the west and is relatively wide at the west and east ends. The middle section is narrow where some long-



leaf pine is growing within the ditch but is otherwise relatively unvegetated. At the east end, there is some standing water with duckweed (*Lemna minor*) and nutsedge (*Cyperus esculentus*) present. At the west end, the ditch becomes shallowly braided and unchannelized. It terminates in a weedy sandy field near the East tip of Wetland E but there is no channel or wetland connection to Wetland E.



Wet Ditch East End Looking West



4.1 GOPHER TORTOISE

The gopher tortoise (*Gopherus polyphemus*) is listed by the State of Georgia as Threatened and has no status federally. The Wenck wetland scientist made observations for gopher tortoise burrows while conducting wetland delineations. In all, 10 such burrows were found scattered throughout the site, mainly within or near wetland boundaries and usually on sandy slopes. None of the burrows appeared to be in active use by tortoises or other wildlife and no actual tortoises were observed. The burrows that were found were along wetland boundaries mainly because the focus of our work was to delineate wetlands. It is assumed that other burrows are present on the site although, based on observation of existing burrows, it is unlikely that any would be active. The only non-wetland area in which Wenck purposefully searched for burrows was along the west property boundary since burrows had been reported there in the past. Wenck found no burrows in this part of the site.

The locations of gopher tortoise burrows are identified in Figure 4 and a typical burrow is shown in the photo below:



Gopher tortoise burrow in North Central Portion of Wetland A

4.2 EASTERN INDIGO SNAKE

The Eastern Indigo Snake (*Drymarchon corais couperi*) is a federally Threatened species which has not been reported in the State of Georgia in recent years. The Indigo snake uses gopher tortoise burrows during colder winter months and also feeds on gopher tortoises,



among other things. Loss of long-leaf pine habitat in its historic range has reduced the number of gopher tortoises and thus the number of Eastern Indigo Snakes. The snakes are normally active around wetland edges, creek bottoms and upland areas during summer months. The LanzaTech site is at the northern edge of the snake's potential range and may contain some potentially-suitable habitat. Wenck did not observe this or any other snakes during wetland delineation activities at the site. Based on its dependence on gopher tortoise burrows, it is unlikely that Eastern Indigo Snake is present on the site.



Five wetlands, some with associated streams, and one wet ditch were identified in the project area. Activities which impact or potentially impact wetlands or other jurisdictional waters may be regulated by the USACE (under Section 404 of the Clean Water Act). No grading or filling in wetland basins or other jurisdictional waters should commence until all necessary permits have been obtained or a finding of no jurisdiction has been obtained from applicable regulatory agencies. This wetland delineation meets the standards and criteria described in the 1987 Manual and Regional Supplement and the results represent the conditions present at the time of the field investigation.

Sincerely,

Wenck Associates, Inc.

July 2020

July 17, 2020 Date

Mike Graham Professional Wetland Scientist #365

> WENCK Responsive partner. Exceptional outcomes.

Figures

- Site Location Map
 NWI/NHD Map
 SSURGO Soils Map







Field Data Sheets

Project/Site:	(City/County:		Sampling Date:			
Applicant/Owner:			State:	Sampling Point:			
Investigator(s):	:	Section, Township, Range: _					
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):			
Subregion (LRR or MLRA):	Lat:	Long:		Datum:			
Soil Map Unit Name:			NWI classifica	ation:			
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No			
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area					
Hydric Soil Present? Ye	within a Wetland?	Yes	No				
Wetland Hydrology Present? Ye	s No						

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is rea		Surface Soil Cracks (B6)		
Surface Water (A1)		A	quatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
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Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	τ ιι		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:			
Applicant/Owner:			State:	Sampling Point:			
Investigator(s):	:	Section, Township, Range: _					
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):			
Subregion (LRR or MLRA):	Lat:	Long:		Datum:			
Soil Map Unit Name:			NWI classifica	ation:			
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No			
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area					
Hydric Soil Present? Ye	within a Wetland?	Yes	No				
Wetland Hydrology Present? Ye	s No						

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is rea		Surface Soil Cracks (B6)		
Surface Water (A1)		A	quatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	T IN		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:			
Applicant/Owner:			State:	Sampling Point:			
Investigator(s):	:	Section, Township, Range: _					
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):			
Subregion (LRR or MLRA):	Lat:	Long:		Datum:			
Soil Map Unit Name:			NWI classifica	ation:			
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No			
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area					
Hydric Soil Present? Ye	within a Wetland?	Yes	No				
Wetland Hydrology Present? Ye	s No						

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is rea		Surface Soil Cracks (B6)		
Surface Water (A1)		A	quatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
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Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
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Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	T IN		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	τ ιι		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	τ ιι		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
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Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
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Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
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Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	τ ιι		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	τ ιι		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51)	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	T IN		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	T IN		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	T IN		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Profile Desc	rintion: (Describe t	o the denth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato		
Donth	Motrix		Dede				the absence	or maicate	// 3.)	
(inches)	Color (moist)	%	Color (moist)	<u>x Features</u> %	s Type ¹	loc^2	Texture		Remark	(S
							·			
				_						
						·				
						·				
1							2			
Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore L	ining, M=M	atrix.
Hydric Soil I	indicators: (Applica	ble to all Li	RRS, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydr	ic Soils":
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (L	_RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S,	T, U)	2 cm N	luck (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	18) (outsid	ie MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodpla	ain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	alous Bright	Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pa	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depr	essions (F	8)		Very S	hallow Dark	< Surface (1	F12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other	Explain in F	Remarks)	
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51) (, , , , , , , , , , , , , , , , , , ,	- 3			
	ark Surface (A12)		Iron-Mangar	iese Mass	es (F12) (LRR 0, P,	I) °Indic	ators of hyd	arophytic ve	getation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (, U)	wet	land hydrol	ogy must be	e present,
Sandy IV	lucky Mineral (S1) (L	RR 0, 5)	Deita Ochric	(F17) (IVIL	.RA 151)		unie	ess disturbe	ed or proble	matic.
Sandy G	bleyed Matrix (54)		Reduced Ve	rtic (F18) (OUA, 150B)				
Sandy R	edox (SS)			Douplain S	olis (F19)		9A) A 440A 452C	4520)		
Surpped	TVIALTIX (30)	τ ιι		Singht Loar	iny Solis (F20) (IVILR)	A 149A, 153C	, 155D)		
Dark Su	aver (if observed):	1, 0)								
Turner	ayer (il observeu).									
Type:								_		
Depth (ind	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site:	(City/County:		Sampling Date:
Applicant/Owner:			State:	Sampling Point:
Investigator(s):	:	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):	I	Local relief (concave, convex	:, none):	Slope (%):
Subregion (LRR or MLRA):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site	typical for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrol	logy significantly	disturbed? Are "Norma	al Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrol	logy naturally pro	blematic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Ye	s No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes	No
Wetland Hydrology Present? Ye	s No			

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)
Surface Water (A1)	Surface Water (A1) Aquatic Fauna (B13)				Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		M	larl Deposits (B15) (LRR U)		Drainage Patterns (B10)
Saturation (A3)		H	lydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		0	xidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		P	resence of Reduced Iron (C4)		Crayfish Burrows (C8)
Drift Deposits (B3)		R	ecent Iron Reduction in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		TI	hin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)		0	ther (Explain in Remarks)		Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)			FAC-Neutral Test (D5)
Water-Stained Leaves (I	B9)				Sphagnum moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present?	Yes	_ No	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches): g well, aerial photos, previous inspe	Wetland ctions), if ava	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes ream gauge,	_ No monitoring	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	_ No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland ctions), if ava	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No monitoring	Depth (inches):	Wetland	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes <u>No</u> ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland ctions), if av	Hydrology Present? Yes No ailable:
Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes	No	Depth (inches):	Wetland I	Hydrology Present? Yes No ailable:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Brofile Dose	rintion: (Describe t	a tha danth	noodod to docu	mont tha i	ndicator	or confirm	the absonce	of indicators)	
FIOILIE Desc	inpuon. (Describe t	o me depin			nuicator	or commit	the absence	of indicators.)	
Depth (inchos)	Color (moist)	0/_	Color (moist)	ox Features	S Typo ¹	1 oc^2	Toxturo	Doma	arke
(incries)				70	<u> </u>	LUC	Texture	Kenia	
		ation DM-D	aduced Matrix M	S=Maakad	- Cond Cr	aina	² Location:	DI - Doro Lining M-	Motrix
Type. C=CC	ndicators: (Applica			s-ividskeu		dill5.		for Problematic Hy	-Maurix.
Hydric Soli I	nuicators. (Applica		kks, unless othe	I WISE HOL	eu.)		mulcators		une sons .
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)) (LRR S ,	T, U)	2 cm N	luck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F18) (outs	side MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Piedmo	ont Floodplain Soils	(F19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	lous Bright Loamy S	Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLF	RA 153B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	(F7)		Red Pa	arent Material (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depre	essions (F	8)		Very S	hallow Dark Surface	(TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			Other (Explain in Remarks))
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	es (F12) (LRR O, P,	T) ³ Indic	ators of hydrophytic	vegetation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (LRR P, T	, U)	wet	land hydrology must	be present,
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (ML	RA 151)		unle	ess disturbed or prob	plematic.
Sandy G	leved Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	60A, 150B)			
 Sandv R	edox (S5)		Piedmont Fl	odolain S	oils (F19)	(MLRA 149	9A)		
Stripped	Matrix (S6)		Anomalous I	Bright Loar	nv Soils (F20) (MLR/	A 149A. 153C	. 153D)	
Dark Su	face (S7) (LRR P. S.	T. U)					,	, ····,	
Restrictive I	aver (if observed):	-, -,							
Type:									
Type.			_						
Depth (ind	ches):						Hydric Soil	Present? Yes	No
Remarks:									

Project/Site:	_ City/County: _		Sam	Sampling Date:	
Applicant/Owner:			State	: Samp	oling Point:
Investigator(s):		Section, Town	ship, Range:		
Landform (hillslope, terrace, etc.):	_ Local relief (co	ncave, convex, none	e):	Slope (%):	
Subregion (LRR or MLRA):	Lat:		Long:		Datum:
Soil Map Unit Name:				NWI classification:	
Are climatic / hydrologic conditions on the	site typical for this time of	year? Yes	No (If no	, explain in Remark	:s.)
Are Vegetation, Soil, or Hy	ydrology significan	tly disturbed?	Are "Normal Circ	umstances" presen	t? Yes No
Are Vegetation, Soil, or Hy	ydrology naturally	problematic?	(If needed, explai	in any answers in R	Remarks.)
SUMMARY OF FINDINGS - Att	ach site map showii	ng sampling	point locations,	transects, imp	oortant features, etc.
Hydrophytic Vegetation Present?	Yes No	- Is the S	ampled Area		
Hydric Soil Present?	Yes No	within	a Wetland?	Yes	No
Wetland Hydrology Present?	Yes No	_			

HYDROLOGY

Wetland Hydrology Indicate	ors:	Secondary Indicators (minimum of two required)	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum	of one is required	Surface Soil Cracks (B6)	Surface Soil Cracks (B6)		
Surface Water (A1)	-	Sparsely Vegetated Concave Surface (B8)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	-	Drainage Patterns (B10)			
Saturation (A3)	_	Moss Trim Lines (B16)			
Water Marks (B1)	_	Oxidized Rhizospheres along Living	g Roots (C3) Dry-Season Water Table (C2)		
Sediment Deposits (B2)	_	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Drift Deposits (B3)	_	Recent Iron Reduction in Tilled Soils	ls (C6) Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Thin Muck Surface (C7)	Geomorphic Position (D2)		
Iron Deposits (B5)	_	Other (Explain in Remarks)	Shallow Aquitard (D3)		
Inundation Visible on Ae	rial Imagery (B7)		FAC-Neutral Test (D5)		
Water-Stained Leaves (E	39)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:	-				
Surface Water Present?	Yes No	Depth (inches):	_		
Water Table Present?	Yes No	Depth (inches):	_		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No eam gauge, moni	 Depth (inches): toring well, aerial photos, previous inspectively 	Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro	Yes No	 Depth (inches): toring well, aerial photos, previous inspectively 	Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stru Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes <u>No</u> pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No vections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Brofile Dose	rintion: (Describe t	a tha danth	noodod to docu	mont tha i	ndicator	or confirm	the absonce	of indicators)	
FIOILIE Desc	inpuon. (Describe t	o me depm			nuicator	or commit	the absence	or indicators.)	
Depth (inchos)	Color (moist)	0/_	Color (moist)	ox Features	S Typo ¹	1 oc^2	Toxturo	Pome	arke
(incries)				70	<u> </u>	LUC	Texture	Kenia	
		ation DM-D	aduced Matrix M	S=Maakad	- Cond Cr	aina	² Location:	DI - Doro Lining M-	Motrix
Type. C=CC	ndicators: (Applica			s-ividskeu		dill5.		for Problematic Hy	-Maurix.
Hydric Soli I	nuicators. (Applica		kks, unless othe	I WISE HOL	eu.)		mulcators		une sons .
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark St	urface (S9)) (LRR S ,	T, U)	2 cm N	luck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F18) (outs	side MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Piedmo	ont Floodplain Soils	(F19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	ıtrix (F3)			Anoma	lous Bright Loamy S	Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLF	RA 153B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	(F7)		Red Pa	arent Material (TF2)	
Muck Pr	esence (A8) (LRR U)		Redox Depre	essions (F	8)		Very S	hallow Dark Surface	(TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			Other (Explain in Remarks))
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	es (F12) (LRR O, P,	T) ³ Indic	ators of hydrophytic	vegetation and
Coast Pi	airie Redox (A16) (M	LRA 150A)	Umbric Surfa	ace (F13) (LRR P, T	, U)	wet	land hydrology must	be present,
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (ML	RA 151)		unle	ess disturbed or prob	plematic.
Sandy G	leved Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	60A, 150B)			
 Sandv R	edox (S5)		Piedmont Fl	odolain S	, oils (F19)	(MLRA 149	9A)		
Stripped	Matrix (S6)		Anomalous I	Bright Loar	nv Soils (F20) (MLR/	A 149A. 153C	. 153D)	
Dark Su	face (S7) (LRR P. S.	T. U)					,,	, ····,	
Restrictive I	aver (if observed):	-, -,							
Type:									
Type.			_						
Depth (ind	ches):						Hydric Soil	Present? Yes	No
Remarks:									

Project/Site:	_ City/County: _		Sam	Sampling Date:	
Applicant/Owner:			State	: Samp	oling Point:
Investigator(s):		Section, Town	ship, Range:		
Landform (hillslope, terrace, etc.):	_ Local relief (co	ncave, convex, none	e):	Slope (%):	
Subregion (LRR or MLRA):	Lat:		Long:		Datum:
Soil Map Unit Name:				NWI classification:	
Are climatic / hydrologic conditions on the	site typical for this time of	year? Yes	No (If no	, explain in Remark	:s.)
Are Vegetation, Soil, or Hy	ydrology significan	tly disturbed?	Are "Normal Circ	umstances" presen	t? Yes No
Are Vegetation, Soil, or Hy	ydrology naturally	problematic?	(If needed, explai	in any answers in R	Remarks.)
SUMMARY OF FINDINGS - Att	ach site map showii	ng sampling	point locations,	transects, imp	oortant features, etc.
Hydrophytic Vegetation Present?	Yes No	- Is the S	ampled Area		
Hydric Soil Present?	Yes No	within	a Wetland?	Yes	No
Wetland Hydrology Present?	Yes No	_			

HYDROLOGY

Wetland Hydrology Indicate	ors:	Secondary Indicators (minimum of two required)	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum	of one is required	Surface Soil Cracks (B6)	Surface Soil Cracks (B6)		
Surface Water (A1)	-	Sparsely Vegetated Concave Surface (B8)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	-	Drainage Patterns (B10)			
Saturation (A3)	_	Moss Trim Lines (B16)			
Water Marks (B1)	_	Oxidized Rhizospheres along Living	g Roots (C3) Dry-Season Water Table (C2)		
Sediment Deposits (B2)	_	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Drift Deposits (B3)	_	Recent Iron Reduction in Tilled Soils	ls (C6) Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Thin Muck Surface (C7)	Geomorphic Position (D2)		
Iron Deposits (B5)	_	Other (Explain in Remarks)	Shallow Aquitard (D3)		
Inundation Visible on Ae	rial Imagery (B7)		FAC-Neutral Test (D5)		
Water-Stained Leaves (E	39)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:	-				
Surface Water Present?	Yes No	Depth (inches):	_		
Water Table Present?	Yes No	Depth (inches):	_		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No eam gauge, moni	 Depth (inches): toring well, aerial photos, previous inspectively 	Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro	Yes No	 Depth (inches): toring well, aerial photos, previous inspectively 	Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stru Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes <u>No</u> pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No vections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stro Remarks:	Yes No	o Depth (inches): toring well, aerial photos, previous inspe	_ Wetland Hydrology Present? Yes No pections), if available:		

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1	· · ·	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	·	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
2	·	Column Totals: (A) (B)
S		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5		height.
6		One line (Ohmula 1) Manda alarata ana kudia ani ana kasa
0		Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7		
o		Herb – All herbaceous (non-woody) plants, regardless
9		or size, and woody plants less than 5.26 it tall.
10	·	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12	· · ·	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
2		
3		
4.		
5.		Hydrophytic
··	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Demarka: (If abaan and list mannhalaginal adaptations hald		
	Jvv j.	

Brofile Dose	rintion: (Describe t	o tho donth	noodod to docu	mont tha i	ndicator	or confirm	the absonce	of indicators)	
FIOILIE Desc	inpuon. (Describe t	o me depm			nuicator	or commit	the absence	of indicators.)	
Depth (inchos)	Color (moist)	0/_	Color (moist)	ox Features	S Typo ¹	1 oc^2	Toxturo	Doma	arke
(incries)				70	<u> </u>	LUC	Texture	Kenia	
		ation DM-D	aduced Matrix M	S=Maakad	- Cond Cr	aina	² Location:	DI - Doro Lining M-	Motrix
Type. C=CC	ndicators: (Applica			s-ividskeu		dill5.		for Problematic Hy	-Maurix.
Hydric Soli I	nuicators. (Applica		kks, unless othe	I WISE HOL	eu.)		mulcators		une sons .
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, U) 1 cm N	luck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark St	urface (S9)) (LRR S ,	T, U)	2 cm N	luck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F18) (outs	side MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Piedmo	ont Floodplain Soils	(F19) (LRR P, S, T)
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Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLF	RA 153B)	
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Muck Pr	esence (A8) (LRR U)		Redox Depre	essions (F	8)		Very S	hallow Dark Surface	(TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			Other (Explain in Remarks))
Depleted	Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
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Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (ML	RA 151)		unle	ess disturbed or prob	plematic.
Sandy G	leved Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	60A, 150B)			
 Sandv R	edox (S5)		Piedmont Fl	odplain S	oils (F19)	(MLRA 149	9A)		
Stripped	Matrix (S6)		Anomalous I	Bright Loar	nv Soils (F20) (MLR/	A 149A. 153C	. 153D)	
Dark Su	face (S7) (LRR P. S.	T. U)					,	, ····,	
Restrictive I	aver (if observed):	-, -,							
Type:									
Type.			_						
Depth (ind	ches):						Hydric Soil	Present? Yes	No
Remarks:									

Precipitation Data

NRCS Engineering Field Handbook Chapter 19										
Date	11/6/2018	Landowner/Project	LanzaTech							
Weather Station	Mount Vernon	State	Georgia							
County	Treutlen	Growing Season	Yes							
Photo/obs Date	7/18/2018	Soil Name								

NRCS method - Rainfall Documentation Worksheet Hydrology Tools for Wetland Determination
NRCS Engineering Field Handbook Chapter 19

shaded cells are locked or calculated	Long-term r (from WETS Climatology	ainfall sta table or S Office)	tistics tate					
	Month	30% chance <	30% chance >	Precip	Condition Dry, Wet, Normal	Condition Value	Month Weight Value	Product of Previous 2 Columns
1st Prior Month* 2nd Prior Month*	June May	2.62 1.22	5.01 2.99	4.50 6.05	N W	2	3	6 6
3rd Prior Month*	April *compared to	1.87 photo/obs	3.69 servation c	3.30 late	Ν	2	1 Sum	2 14
	Note: If sum 6 - 9 10 - 14	 it: If sum is 9 prior period has been than normal 14 prior period has been 				Condition va Dry =1 Normal =2 Wet =3	alue:	
Conclusions:	15 - 18 pri	than norm	od has bee nal has been	n wetter			l	

NRCS Engineering Field Handbook Chapter 19										
Date	11/6/2018	Landowner/Project	LanzaTech							
Weather Station	Dublin 2	State	Georgia							
County	Treutlen	Growing Season	Yes							
Photo/obs Date	9/3/2018	Soil Name								

NRCS method - Rainfall Documentation Worksheet Hydrology Tools for Wetland Determination
NRCS Engineering Field Handbook Chapter 19

shaded cells are locked or calculated	Long-term rainfall statistics (from WETS table or State Climatology Office)							
	Month	30% chance <	30% chance >	Precip	Condition Dry, Wet, Normal	Condition Value	Month Weight Value	Product of Previous 2 Columns
1st Prior Month* 2nd Prior Month*	August Julv	1.88 1.98	5.10 4.04	10.30	D W	1	3	3
3rd Prior Month*	June	2.62	5.01	4.50	N	2	1	2
	*compared to Note: If sum 6 - 9 10 - 14 15 - 18	If sum is prior period has been drier than normal I4 prior period has been normal I8 prior period has been wetter than normal			Condition value:Dry =1Normal =2Wet =3			11
Conclusions:	pri	or period	has been	normal				



Responsive partner. Exceptional outcomes.