

November 17, 2025

Hempstead County Economic Development Corporation (EDC) c/o ETTL Engineers & Consultants, Inc. 3527 Star Road
Tyler, Texas 75791

Re: Section 404 (Wetland) Delineation

Approximately 78 acres, Southeast of AR-32 at County Road 26, Hempstead Co., AR

Hempstead County EDC:

Rowden Consulting, LLC has prepared this evaluation and delineation of aquatic features on the property referenced above near Hope in Hempstead County, Arkansas. The entire study area (approximately 78 acres) was evaluated in accordance with the procedures outlined in the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual, and the USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). No wetlands or other waters of the U.S. were identified within the study area. As such, no Section 404 permits from the U.S. Army Corps of Engineers will be required to disturb or develop the property.

WETLAND DELINEATION

The USACE 1987 Wetland Delineation Manual defines wetlands as "those 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 have the following general diagnostic environmental characteristics: (1) Vegetation - the prevalent vegetation consists of macrophytes that are typically adapted to areas having hydrologic and soil conditions found in wetlands; (2) Soil - soils are present and have been classified as hydric, or they possess characteristics that are associated with reducing soil conditions; and (3) Hydrology - the area is inundated either permanently or periodically, or the soil is saturated to the surface at some time during the growing season of the prevalent vegetation.

In order to evaluate the property for wetlands, observation points were established along transects. Wetland parameters were characterized at each observation point. The dominant plant species, soil characteristics, and hydrology indicators occurring at each observation point were recorded on Data Forms, copies of which are attached. At each of the established observation points (sample plots) in the field, a soil pit was excavated to evaluate soil characteristics. The soil pits were excavated using a sharp shooter shovel, and the pits were excavated with a minimum one-foot diameter. The sharp shooter was extended to the blade depth in a full circle to circumscribe the pit perimeter, and the final mass of soil was lifted from each hole. This method produced pits with an approximate depth of fifteen inches where practical. Note that this method was employed at each observation point. In addition to observation points, undocumented check plots were also established when confirming upland conditions and mapping features.

The boundaries of the aquatic areas were identified during the delineation, and the features are represented on the attached Delineated Aquatic Features Map. Photographs are also included as an attachment. The boundaries of aquatic features were mapped in the field using a combination of digital LIDAR elevation data interpretation and field mapping with a mapping grade global positioning (GPS) system. The collected data

was used to create the attached exhibits. A Global Navigation Satellite System (GNSS) GPS receiver was used in the delineation. Real-time correction was utilized to attempt meter to submeter accuracy. Accuracy was closely monitored during fieldwork and critical data point collection was allowed to average over time until near or sub-meter results were achieved. The GNSS GPS is typically capable of producing sub-meter positional accuracy using GPS, Precise Point Positioning (PPP), and Satellite-based Augmentation System (SBAS). PPP technology is made possible by stabilizing measurements of the distance between GNSS satellites and the receiver (pseudo-ranges) using carrier phase tracking. Additional accuracy is achieved from ionospheric correctional data received from satellite-based augmentation systems. Benchmark points were utilized to ensure accuracy at the beginning and end of the field day, and control points were carefully monitored with sufficient time to ensure that accuracy levels were acceptable for critical field shots.

The property was found to comprised entirely of uplands with no wetlands. The property is generally characterized as an upland flat with convex surface relief. The property has been used as a hay meadow in recent years, and vegetation was recently cut. The great majority of the property was found to be in this condition, except for the extreme southern end of the property. A mature forest was identified on the south end of the property. The following sections provide a description of the characteristics of the property observed at the sample plots.

Vegetation

Plot 1 was established in an upland flat on the northeast side of the property. Vegetation at Plot 1 was represented by broomsedge (*Andropogon virginicus*), Vasey's grass (*Paspalum urvillei*), foxtail (*Setaria pumila*), and smutgrass (*Sporobolus indicus*). The area of Plot 1 exhibited a dominance of facultative hydrophytes, which satisfied wetlands criteria for vegetation. However, wetlands hydrology and hydric soils were absent.

Plot 2 was established in another upland flat on the northwest side of the property just below a large linear mound of fill placed in recent years. The fill appears to have originated from nearby railroad construction. Vegetation at Plot 2 was represented by broomsedge, Vasey's grass, goldenrod (*Solidago altissima*), and Johnsongrass (*Sorghum halepense*). The area of Plot 2 exhibited no dominance or prevalence of hydrophytes, which did not satisfy wetlands criteria for vegetation.

Plot 3 was established in a mature forest on the south end of the property. This plot was located at the lowest elevation found within the study area. Vegetation at Plot 3 was represented by shagbark hickory (*Carya ovata*), southern red oak (*Quercus falcata*), hackberry (*Celtis laevigata*), green ash (*Fraxinus pennsylvanica*), inland woodoats (*Chasmanthium latifolium*), and Cherokee sedge (*Carex cherokeensis*). The area of Plot 3 exhibited a dominance of hydrophytes, which satisfied wetlands criteria for vegetation. However, wetlands hydrology and hydric soils were absent.

Plot 4 was established in another upland flat on the southwest side of the property. Vegetation at Plot 4 was represented by broomsedge, Vasey's grass, Baldwin ironweed (*Vernonia baldwinii*), Johnsongrass, and smutgrass. The area of Plot 4 exhibited no dominance or prevalence of hydrophytes, which did not satisfy wetlands criteria for vegetation.

Plot 5 was established in another upland flat near the middle of the property. Vegetation at Plot 5 was represented by broomsedge, Vasey's grass, and foxtail. The area of Plot 5 exhibited a dominance of facultative hydrophytes, which satisfied wetlands criteria for vegetation. Wetlands hydrology and hydric soils were absent.

Plot 6 was established in another upland flat on the east side of the property. Vegetation at Plot 6 was represented by broomsedge, Vasey's grass, and thistle (*Cirsium discolor*). The area of Plot 6 exhibited a dominance of facultative hydrophytes, which satisfied wetlands criteria for vegetation. Wetlands hydrology and hydric soils were absent.

Soils

According to soil survey information, two soil series are mapped on the property. Sample plots were established in the Houston clay, 1 to 3 percent slopes and the Kipling silty clay loam, 3 to 8 percent slopes, eroded soil series. A map depicting the NRCS hydric ratings by map type (attached) shows the hydric soil rating for these map units to be an estimated 5% and 0%, respectively. Soil characteristics observed throughout the property appeared to be generally representative of these soil series.

Munsell soil colors observed throughout the diagnostic horizons of Plot 1 were 10YR 3/2 with no redoximorphic features. A soil horizon with a color of 10YR 4/2 with redoximorphic features was observed below a depth of thirteen inches. However, this type of horizon must be located within ten inches of the ground surface to satisfy hydric soil criteria. Munsell soil colors observed throughout the diagnostic horizons of Plots 2, 3, 4, 5, and 6 were 10YR 2/2, 10YR 3/2, 10YR 3/3, 10YR 4/2, and 10YR 4/3 without redoximorphic features, which did not satisfy wetlands criteria for hydric soils.

Hydrology

The property was studied during a seasonal period of normal conditions during the wet season. To ensure that observations were conducted during a typical year, the USACE Antecedent Precipitation Tool was used to make an empirical comparison between reference rainfall data and conditions at the time of observation. The output of this tool is included as an attachment, which supports normal conditions during the wet season.

No saturation or inundation were observed at any of the sample plots. Wetlands hydrology criteria were not satisfied at any of the sample plots (or check plots). One secondary hydrology indicator was observed at Plots 4 and 6 due to the presence of crawfish burrows; however, wetlands hydrology criteria were not satisfied by the observation of only one secondary indicator. Two are required to satisfy wetlands hydrology.

Other Waters - Dry Man-Made Ditch

Other waters (non-wetland aquatic areas) included one drainage ditch located on the south end of the property. The ditch provides drainage collected along the side of an existing railroad track just west of the subject property. This ditch enters the study boundary and crosses the southern end of the property. The ditch was delineated at its ordinary high water mark (OHWM). The OHWM defines the lateral extent of non-tidal aquatic features and the limits of regulatory jurisdiction under Section 404 of the Clean Water Act. The federal regulatory definition of the OHWM, 33 CFR 328.3(c)(7), states, "The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas." The ditch was delineated at its ordinary high water mark, which was represented by secondary shelving and a scour.

Jurisdictional Determination

Only the USACE has the authority to confirm the classification of nonjurisdictional waters. However, in the professional opinion of Rowden Consulting, LLC, the delineated ditch shown on the Delineated Aquatic Features Map is expected to be non-jurisdictional and unregulated.

The regulatory agencies issued a rule defining waters of the U.S. (WOTUS) in early 2023. On May 25, 2023, the U.S. Supreme Court issued an opinion in the Sackett v. Environmental Protection Agency (EPA) case stating "the Clean Water Act extends only to wetlands that have a continuous surface connection with 'waters" of the United States – i.e., with a relatively permanent body of water connected to traditional interstate navigable waters, 33 U.S.C. § 1362(7) – making it difficult to determine where the water ends and the wetland begins." In response to this ruling, the USACE and the EPA have issued a rule amendment and regulatory guidance to revise the definition of WOTUS.

Note that Arkansas is currently one of twenty-six states where the original 2023 WOTUS rule is enjoined due to ongoing litigation, which makes the recent agency rule amendment inapplicable in Arkansas. For enjoined states

such as Arkansas, guidance has been issued to USACE districts with no formal publication. It is our understanding they have been instructed to operate under the "pre-2015 regulatory regime" while incorporating the effective provisions of the Sackett case. The attached Delineated Aquatic Features Map reflects our understanding of current jurisdiction.

In response to the Sackett case, open waters, streams, and drainage ditches may now be characterized as relatively permanent waters (RPW) or non-relatively permanent waters (non-RPW) as this terminology reflects the difference between regulated non-wetland features (RPW) and non-regulated features (non-RPW). The jurisdictional status of wetlands and other waters has been updated, depending on their physical connectivity or lack of connectivity to RPW, which is now a requirement for regulation.

The dry ditch identified on the south end of the property was observed to be dry during a time of normal conditions during the wet season. Based on these conditions and the characteristics of the ditch observed, the ditch would only flow following a precipitation event. As such, its flow regime was classified as ephemeral, which is a non-RPW. Non-RPW ditches are not regulated as waters of the U.S. As such, no Section 404 permit should be required to fill or disturb the ditch identified on the property.

SUMMARY

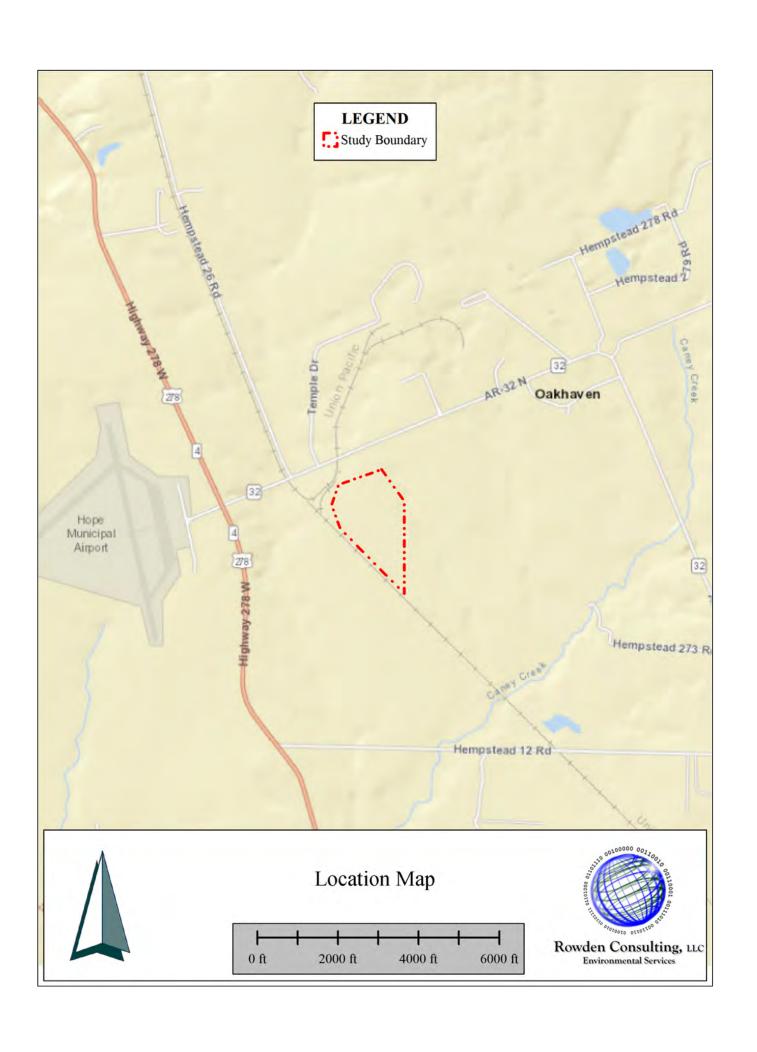
This delineation was prepared using currently applicable guidance and methodology, and it represents the best professional judgment of Rowden Consulting, LLC. As a professional opinion only, it does not represent final agency approval of the jurisdictional status of delineated features, and we recommend submitting this information to the USACE for review and verification if agency approval is needed for future planning. No wetlands or other waters of the U.S. were identified within the study area. As such, no Section 404 permits from the U.S. Army Corps of Engineers will be required to disturb or develop the property.

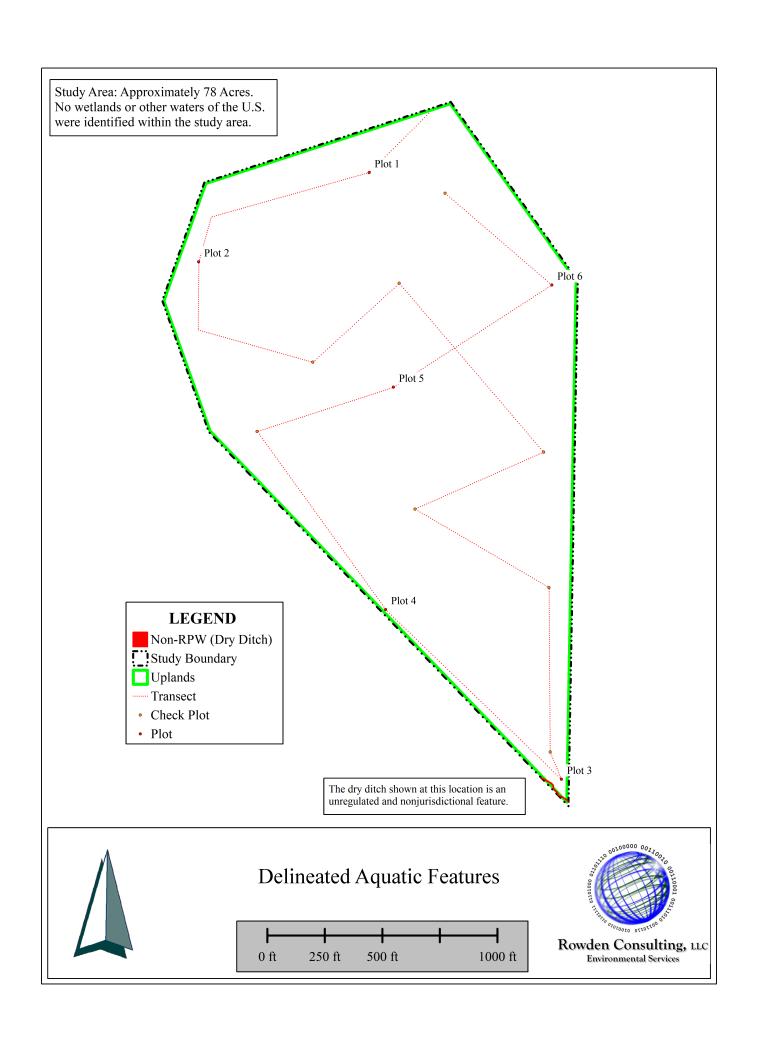
Sincerely,

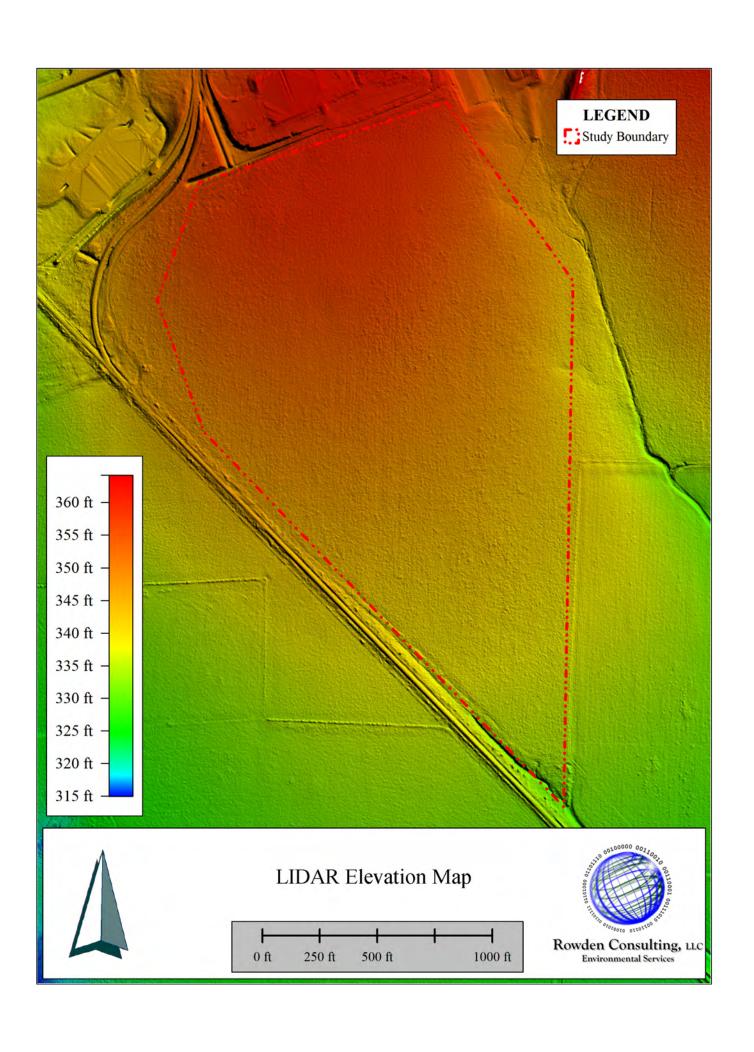
Jeremy Rowden, PG

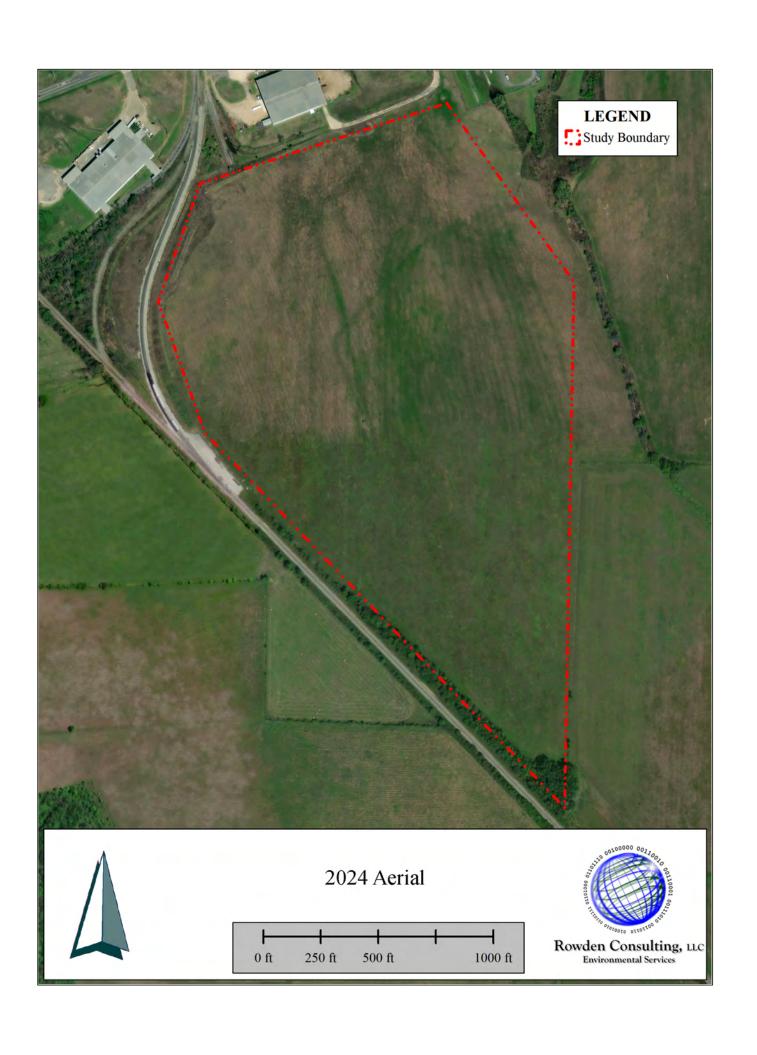
Enclosures





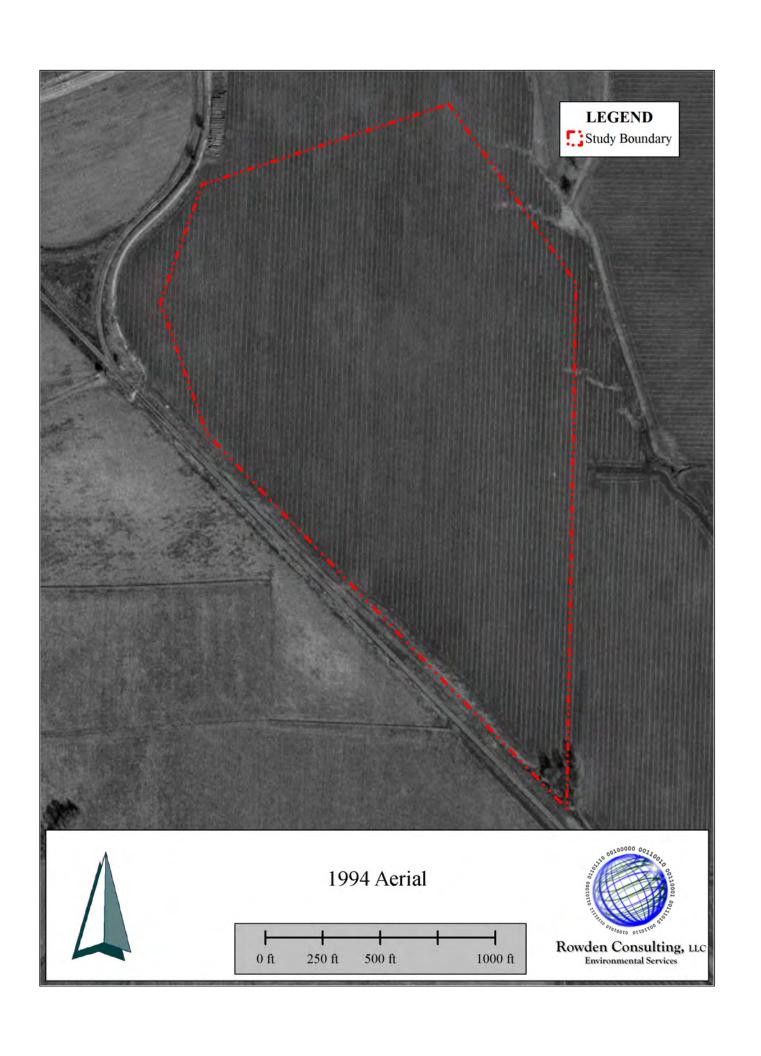


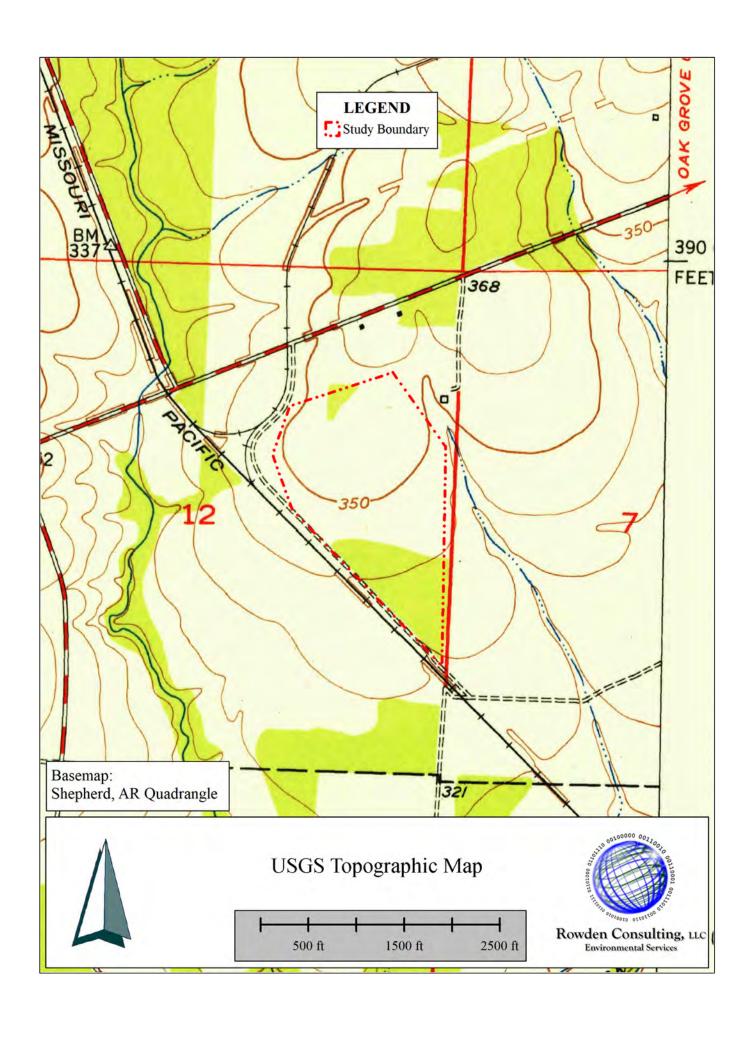


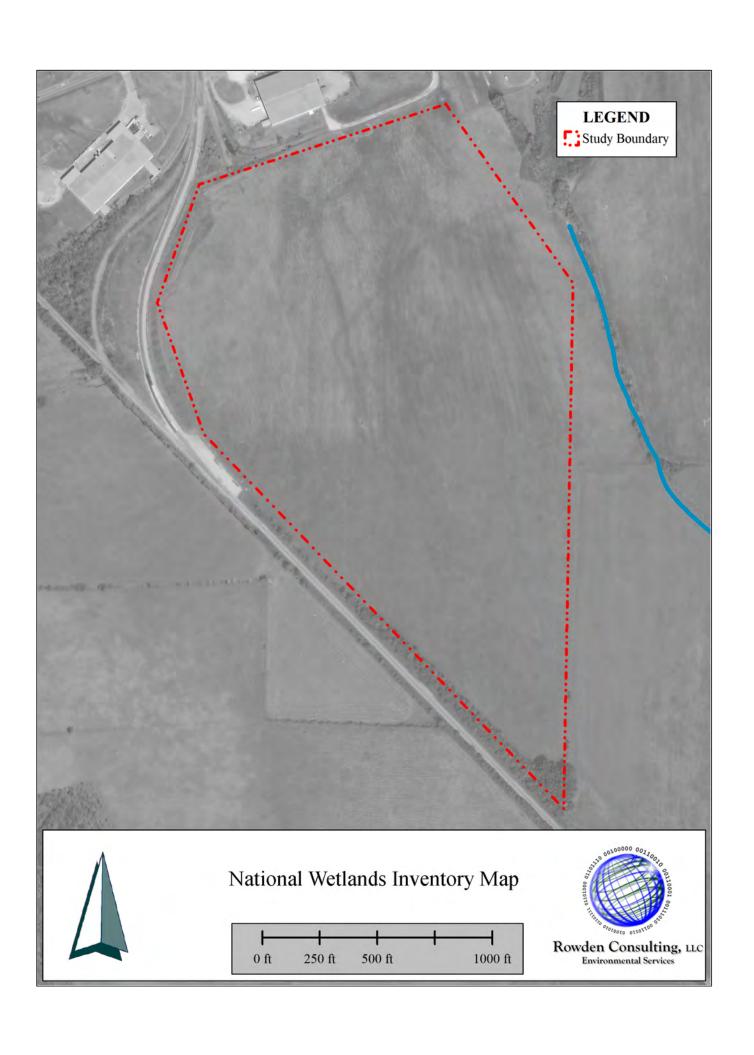




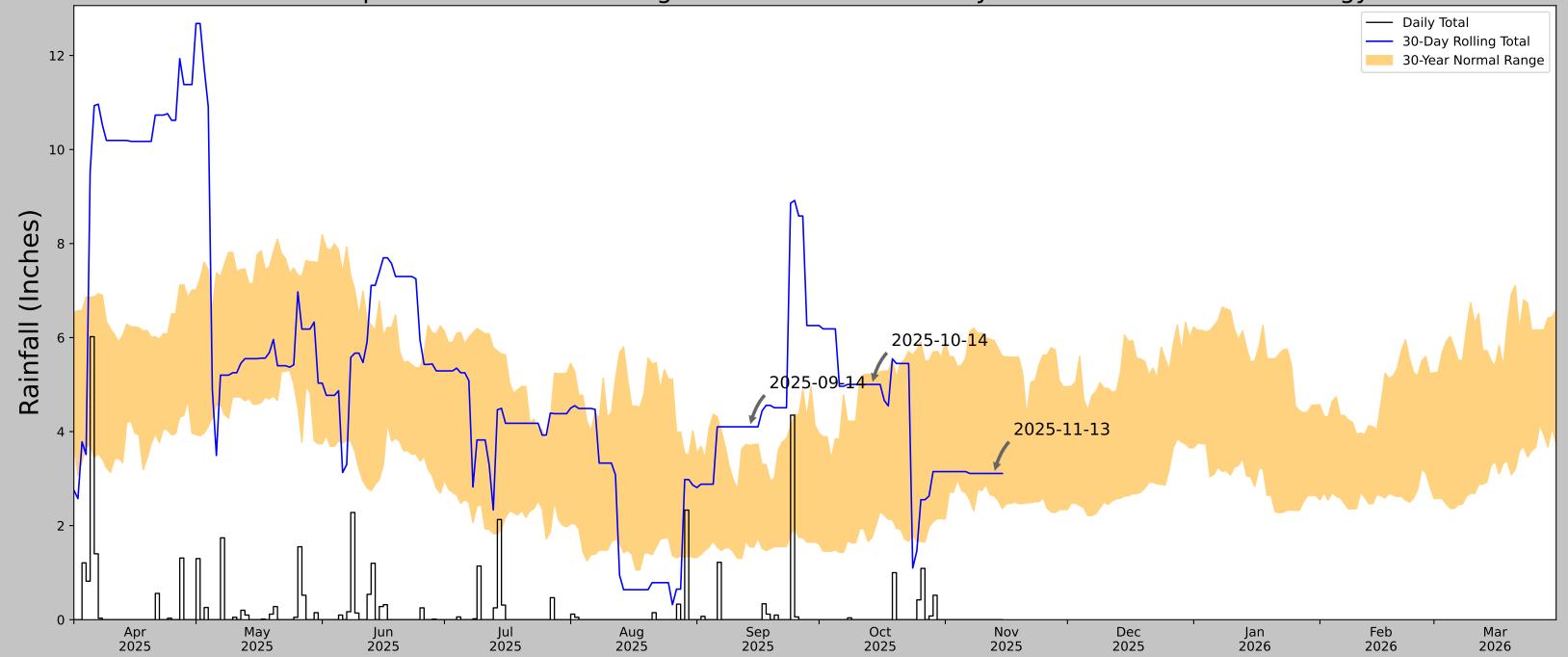








Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	33.72112, -93.6353
Observation Date	2025-11-13
Elevation (ft)	351.005
Drought Index (PDSI)	Not available (2025-10)
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-11-13	2.632677	5.937795	3.110236	Normal	2	3	6
2025-10-14	1.740551	5.21063	5.003937	Normal	2	2	4
2025-09-14	1.548032	3.705512	4.102362	Wet	3	1	3
Result							Normal Conditions - 13

Figures and tables made by the Antecedent Precipitation Tool Version 3.0

US Army Corps of Engineers and Developed by:

U.S. Army Corps of Engineers and

ERDC

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
NASHVILLE	33.9292, -93.8508	399.934	18.966	48.929	9.463	11321	88
NASHVILLE 0.4 NNW	33.9468, -93.8534	453.084	1.225	53.15	0.616	2	0
NASHVILLE 1.0 NE	33.9518, -93.8396	409.121	1.688	9.187	0.775	6	0
COLUMBUS 2.1 NNE	33.8077, -93.8122	348.097	8.682	51.837	4.357	2	0
MURFREESBORO 1W	34.0783, -93.7014	370.079	13.392	29.855	6.426	18	0
MURFREESBORO 4.5 E	34.0756, -93.6135	534.121	16.943	134.187	9.898	1	0
MILLWOOD DAM	33.6772, -93.9903	315.945	19.165	83.989	10.234	1	1
DELIGHT 2.2 WNW	34.0417, -93.5418	482.94	19.334	83.006	10.305	2	0
DELIGHT 0.3 NNW	34.0331, -93.5069	354.003	20.97	45.931	10.4	0	1



MAP LEGEND

Area of Interest (AOI) Transportation Area of Interest (AOI) Rails Soils Interstate Highways **Soil Rating Polygons** US Routes Hydric (100%) Major Roads Hydric (66 to 99%) Local Roads Hydric (33 to 65%) Background Hydric (1 to 32%) Aerial Photography Not Hydric (0%) Not rated or not available Soil Rating Lines Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Soil Rating Points** Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Water Features** Streams and Canals

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hempstead County, Arkansas Survey Area Data: Version 25, Sep 10, 2025

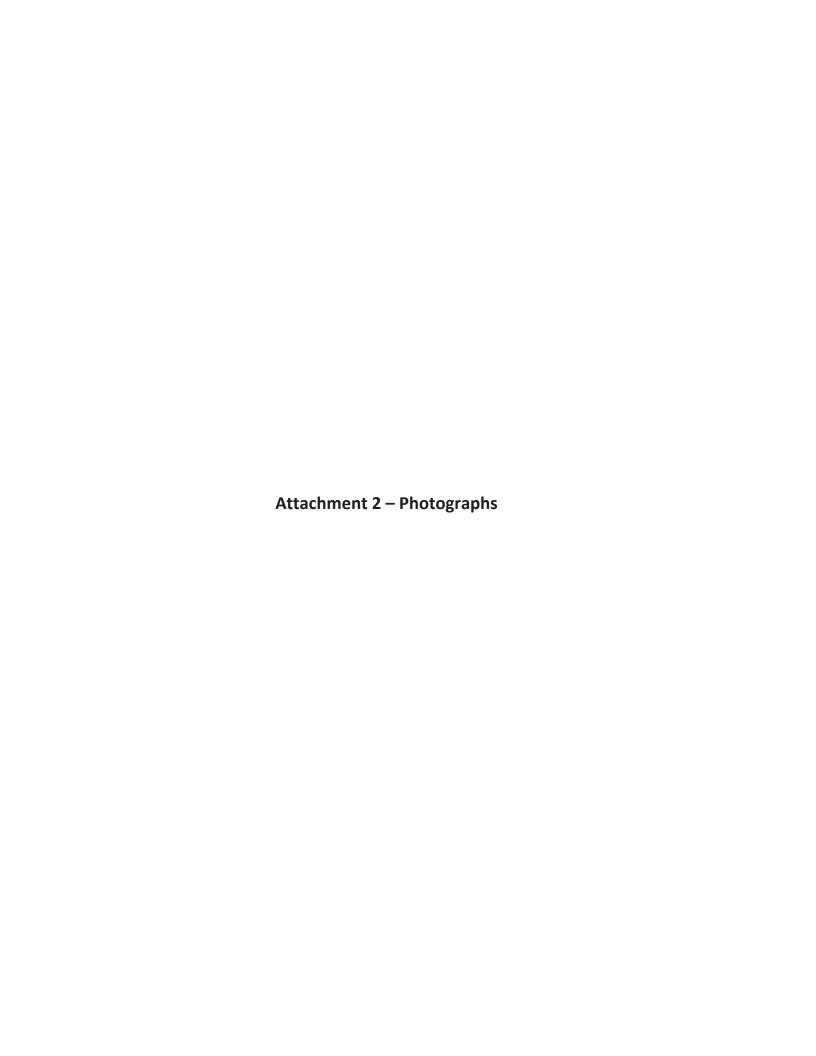
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

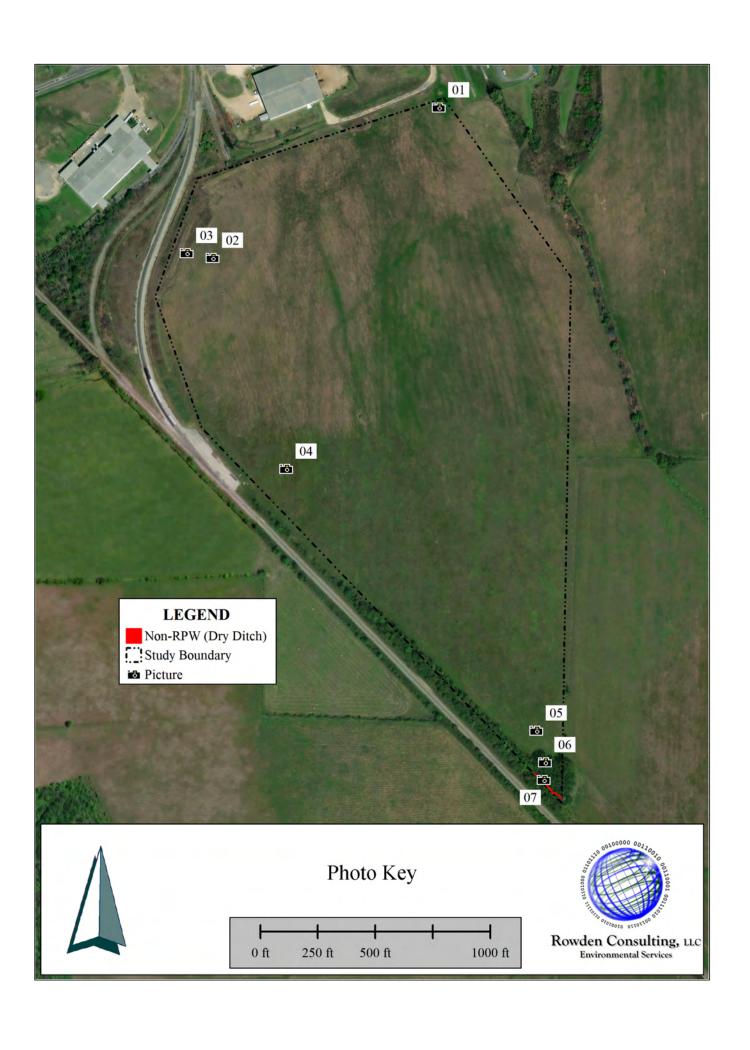
Date(s) aerial images were photographed: Jan 22, 2023—Feb 17, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
12	Houston clay, 1 to 3 percent slopes	5	54.1	71.1%
15	Kipling silty clay loam, 3 to 8 percent slopes, eroded	0	22.0	28.9%
Totals for Area of Intere	est		76.2	100.0%







1

View overlooking uplands facing south from the north side of the property.



2

View overlooking uplands facing southeast from the northwest side of the property.



3

View of upland conditions at Plot 2. The plot was established below a linear mound of soil that appears to have been placed in recent years in connection with nearby railroad construction.



4

View overlooking uplands facing east from the west side of the property.



5

View overlooking uplands facing north from the south side of the property.



6

View of forested conditions at Plot 3 located on the south side of the property.



7

View of an upland man-made ditch with a non-relatively permanent flow regime. The ditch is located on the south side of the property.



Plot 1

View of the non-hydric soil profile at Plot 1.



Plot 2
View of the non-hydric soil profile at Plot 2.



Plot 3
View of the non-hydric soil profile at Plot 3.



Plot 4
View of the non-hydric soil profile at Plot 4.



Plot 5
View of the non-hydric soil profile at Plot 5.



Plot 6

View of the non-hydric soil profile at Plot 6.



Project/Site: Hemstead 78 A	cres	City/C	ounty: Hempstead	l County	Sampling Date: 11/13/25
Applicant/Owner: Hempstead	County EDC	, <u> </u>	State: AR	Sampling Point: 1	
Investigator(s): Jeremy Rowo			S12 T12S R25W		
Landform (hillslope, terrace, etc.	:); upland flat	Local	relief (concave, conv	vex. none); convex	Slope (%): <2
Subregion (LRR or MLRA). LR	:R P	Lat: 33.7236747	78° N Lon	g. 93.63569641° W	Slope (%): <2 VNAD83
Soil Map Unit Name: Houston	clay, 1 to 3 percent s	lopes		NWI classific	cation: nonwet
Are climatic / hydrologic condition					
Are Vegetation, Soil					
Are Vegetation, Soil				ed, explain any answe	
					s, important features, etc.
		·		<u>`</u>	
Hydrophytic Vegetation Prese	nt? Yes /	No	Is the Sampled Ar		V
Hydric Soil Present? Wetland Hydrology Present?	Yes	No X	within a Wetland?	Yes	No X
Remarks:	163	110			
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o		all that apply)		Surface Soil	
Surface Water (A1)		atic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	Drainage Pa	
Saturation (A3)		ogen Sulfide Odor (C		Moss Trim L	
Water Marks (B1)	<u></u> Oxid	ized Rhizospheres a	long Living Roots (C	3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iron	, ,	Crayfish Bur	, ,
Drift Deposits (B3)		ent Iron Reduction in	Tilled Soils (C6)		risible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	$\overline{}$	Muck Surface (C7)		=	Position (D2)
☐ Iron Deposits (B5) ☐ Inundation Visible on Aeri		er (Explain in Remark	S)	Shallow Aqu	, ,
Water-Stained Leaves (B	• • • •			=	moss (D8) (LRR T, U)
Field Observations:	/				, , ,
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No _X	Depth (inches):			
Saturation Present?	Yes No X	Depth (inches):	Wetla	nd Hydrology Preser	nt? Yes No X
(includes capillary fringe) Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	 vious inspections), if	available:	
·					
Remarks:					

EGETATION (Four Strata) – Use scientific na			la dia atau	Daminanaa Taat wantahaat	oling Point: 1	
ree Stratum (Plot size: 30')		Dominant Species?		Dominance Test worksheet:		
none				Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A
				That Are OBL, FACW, or FAC.		_ (A
				Total Number of Dominant		
				Species Across All Strata:	2	_ (B
				Dereant of Deminent Chasins		
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	_ (A
				111017110 032, 171011, 011710.		_ (,
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	
				OBL speciesx	1 =	
		= Total Cov	er er	FACW species x		
50% of total cover:	20% of	f total cover	:			
apling/Shrub Stratum (Plot size: 30')				FAC species x		
none				FACU species x	4 =	
				UPL species x	5 =	
				Column Totals: (A	4)	
				(,	
				Prevalence Index = B/A =	. <u> </u>	
				Hydrophytic Vegetation Indica		
				1 - Rapid Test for Hydrophy		
				X 2 - Dominance Test is >509		
				3 - Prevalence Index is ≤3.0)1	
		= Total Cov	er er	Problematic Hydrophytic Ve	egetation ¹ (Expl	lain)
50% of total cover:	20% of	f total cover	:			
erb Stratum (Plot size: 30')				¹ Indicators of hydric soil and we	tland hydrology	/ mus
Andropogon virginicus	60	Yes	FAC	be present, unless disturbed or		illus
Paspalum urvillei	20	Yes	FAC	Definitions of Four Vegetation		
Setaria pumila	10	No	FAC	Definitions of Four Vegetation	i Strata.	
			$\overline{}$	Tree - Woody plants, excluding	vines, 3 in. (7.	6 cm
Sporobolus indicus	10	No	FACU	more in diameter at breast heigh	nt (DBH), regar	dless
				height.		
				Sapling/Shrub – Woody plants	excluding vine	es les
				than 3 in. DBH and greater than		
					` ,	
				Herb – All herbaceous (non-woo		jardle
				of size, and woody plants less the	nan 3.28 ft tall.	
)				Woody vine - All woody vines	greater than 3.2	28 ft i
1				height.	,	
2						
		= Total Cov	/er			
50% of total cover: 50						
	20% 01	i ioiai cover				
oody Vine Stratum (Plot size: 30')						
none						
				Hydrophytic		
		= Total Cov		Vegetation Present? Yes X	No	
50% of total cover:	20% of	f total cover	:	rieseiiti ies 🔨	No	
emarks: (If observed, list morphological adaptations be	low).			1		
(,	,					

SOIL Sampling Point: 1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) (inches) Color (moist) Type¹ Loc² Texture 100 0-13 10YR 3/2 clay 13-15 10YR 4/2 80 10YR 4/6 20 С M clay ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Polyvalue Below Surface (S8) (LRR S, T, U) Histosol (A1) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³Indicators of hydrophytic vegetation and Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: No X **Hydric Soil Present?** Depth (inches): Yes Remarks:

Project/Site: Hemstead 78 A	cres	City/Co	ounty: Hempstead C	ounty	Sampling Date: 11/13/25
Applicant/Owner: Hempstead	County EDC		State: AR	Sampling Point: 2	
Investigator(s): Jeremy Rowo		n, Township, Range:			
Landform (hillslope, terrace, etc					Slope (%): <2
Subregion (LRR or MLRA). LR	:R P	Lat. 33.7225761	4° N Long	93.63811493° W	/ Datum: NAD83
Soil Map Unit Name: Kipling s	silty clay loam, 3 to 8 p	percent slopes, ero	ded ===================================	NWI classific	cation: nonwet
Are climatic / hydrologic condition					
Are Vegetation, Soil					oresent? Yes X No
Are Vegetation, Soil				explain any answe	
					s, important features, etc.
				·	1
Hydrophytic Vegetation Prese Hydric Soil Present?		No X	Is the Sampled Area		V
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No X
Remarks:		110			
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o		all that apply)		Surface Soil	
Surface Water (A1)		atic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRR	t U)	Drainage Pa	
Saturation (A3)		rogen Sulfide Odor (C		Moss Trim L	
Water Marks (B1)	Oxid	lized Rhizospheres al	ong Living Roots (C3)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Pres	ence of Reduced Iron	n (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	☐ Rece	ent Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	$\overline{}$	Muck Surface (C7)		=	Position (D2)
Iron Deposits (B5)		er (Explain in Remark	s)	Shallow Aqu	` '
Inundation Visible on Aeri	0 , , ,			FAC-Neutral	noss (D8) (LRR T, U)
Water-Stained Leaves (B				<u> </u>	1055 (D6) (LKK 1, U)
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No X				
Saturation Present?	Yes No X			Hydrology Preser	nt? Yes No X
(includes capillary fringe)					
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, prev	vious inspections), if av	allable:	
December					
Remarks:					

VEGETATION	(Four Strata)	– Use s	scientific	names of	plants.

regeration (Four Strata) – Ose scientific ha	· .			Sampling Point: 2	
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:	
4 none				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	
				That Are OBL, FACW, or FAC: 2 (A)	
2				Total Number of Dominant	
3				Species Across All Strata: 4 (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 50 (A/E	3)
6				Describer on to describe heat	
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
		= Total Cov		OBL species x 1 =	
50% of total cover:	20% of	total cover	:	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30')				FAC species 50 $x 3 = 150$	
, none				FACU species <u>50</u> x 4 = <u>200</u>	
···				UPL species x 5 =	
2				Column Totals: 100 (A) 350 (B)
3					
4				Prevalence Index = $B/A = 3.5$	
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 Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover:	20% of	total cover	:	<u> </u>	
Herb Stratum (Plot size: 30')				¹ Indicators of hydric soil and wetland hydrology must	
1. Andropogon virginicus	30	Yes	FAC	be present, unless disturbed or problematic.	
2. Paspalum urvillei	20	Yes	FAC	Definitions of Four Vegetation Strata:	
3. Solidago altissima	20	Yes	FACU	John Mondo of Four Pogotation Gradua	
4. Sorghum halepense	30	Yes	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of	
				more in diameter at breast height (DBH), regardless of height.	П
5					
6				Sapling/Shrub – Woody plants, excluding vines, less	i
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardles	S
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft in	
11				height.	
12					
	100	= Total Cov	/er		
50% of total cover: 50	20% of				
Woody Vine Stratum (Plot size: 30')					
none					
2					
3					
4					
5				Hydrophytic	
		= Total Cov		Vegetation Present? Yes No X	
50% of total cover:	20% of	total cover	:	rieseiit: iesNo	
Remarks: (If observed, list morphological adaptations beld	ow).				

Color (moist)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) To Muck (A9) (LRR P, T, U) Redox Dark Surface (F1) Muck (A9) (LRR P, T) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR O, S, T, U) Delta Ochric (F11) (MLRA 150A) Reduced Vertic (F18) (cutside MLRA 150A) Anomalous Bright Loamy Soils (F20) Murk Presence (A8) (LRR P, T) Depleted Dark Surface (F7) Murk Presence (A8) (LRR P, T) Depleted Dark Surface (F12) (LRR O, P, T) Depleted Dark Surface (F12) (LRR O, P, T) Depleted Dark Surface (F13) (LRR P, T, U) Depleted Dark Surface (F13) (LRR D, T) Depleted Dark Surface (F13) (LRR O, P, T) Depleted Dark Surface (F13) (LRR D, T, U) Dep
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Hydrogen Sulfide (A4) Corganic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F1) Coast Prairie Redox (A12) Thin Dark Surface (F1) (MLRA 151) Thick Dark Surface (A12) Thin Dark Surface (F1) (MLRA 150A, P, T, U) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Detair in Redox Dark Surface (F1) Reduced Vertic (F18) (outside MLRA 150A, B) Reduced Vertic (F18) (outside MLRA 150A, B) Reduced Vertic (F18) (outside MLRA 150A, B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Jandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A)
Type:

Project/Site: Hemstead 78 A	cres	City/C	ounty: Hempstea	d County	Sampling Date: 11/13/25
Applicant/Owner: Hempstead	County EDC	,	State: AR	Sampling Date: 11/13/25 Sampling Point: 3	
Investigator(s): Jeremy Rowo			e: S12 T12S R25W		
Subregion (LRR or MLRA). LR	R P	Lat: 33.7164611	8° N Lor	93.63280487° W	Slope (%): <2 VNAD83
Soil Map Unit Name: Houston	clay, 1 to 3 percent s	lopes		NWI classific	
Are climatic / hydrologic condition					
Are Vegetation, Soil					
Are Vegetation, Soil				ded, explain any answe	
					s, important features, etc.
		·	1 31		, , ,
Hydrophytic Vegetation Prese	nt? Yes _^	No	Is the Sampled A		
Hydric Soil Present?	Yes	No X	within a Wetland	? Yes	No X
Wetland Hydrology Present? Remarks:	Yes	NO <u>^</u>			
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o		all that apply)		_	Cracks (B6)
Surface Water (A1)		atic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	Drainage Pa	
Saturation (A3)	Hydr	ogen Sulfide Odor (C	C1)	Moss Trim L	ines (B16)
Water Marks (B1)	☐ Oxid	ized Rhizospheres a	long Living Roots (0	C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iron	` '	☐ Crayfish Bur	, ,
Drift Deposits (B3)		ent Iron Reduction in	Tilled Soils (C6)		risible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	$\overline{}$	Muck Surface (C7) er (Explain in Remark	2)	Geomorphic Shallow Aqu	Position (D2)
Inundation Visible on Aeri		i (Explain in Kemark	.5)	FAC-Neutral	, ,
Water-Stained Leaves (B	0 , , ,			=	moss (D8) (LRR T, U)
Field Observations:					, , ,
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No X	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes No X	Depth (inches):	Wetla	and Hydrology Preser	nt? Yes No X
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), i	if available:	
December					
Remarks:					

VEGETATION	(Four Strata	– Use	scientific	names	of plants.

Number of Dominant Species Status Number of Dominant Species That Are OBL, FACW, or FAC; 3		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Carya ovala	ree Stratum (Plot size: 30')						
Total Number of Dominant Species Across All Stratus 5	Carya ovata	60	Yes	FACU		3	(A)
Species Across All Strata: 5	Quercus falcata	20	Yes	FACU	Total Number of Deminent		
Percent of Dominant Species That Are OBL, FACW, or FAC: 80						5	(B)
That Are OBL, FACW, or FAC: B0					·		
Prevalence Index worksheet: Total % Cover of: Multiply by: 50% of total cover: 40 20% of total cover: 16 Appling/Shrub Stratum (Plot size: 30') Cellis laevigata 5 Yes FACW Fraxinus pennsylvanica 5 Yes FACW Fraxinus pennsylvanica 5 Yes FACW Fraxinus pennsylvanica 5 Yes FACW Total Cover Yes FACW Fraxinus pennsylvanica 5 Yes FACW Fraxinus pennsylvanica 7 Yes FACW FACW Species 7 X 3 = FACW UPL species 7 X 5 = Column Totals: (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 7 X 2 = FACW Species 7 X 3 = FACW UPL species 7 X 5 = Column Totals: (A) Fraxinus pennsylvanica 7 Yes FACW FACW Species 7 X 3 = FACW UPL species 7 X 5 = Column Totals: (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 7 X 2 = FACW Species 7 X 3 = FACW Species 7 X 3 = FACW UPL species 7 X 5 = Column Totals: (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 7 X 2 = FACW Species 7 X 3 = FACW UPL species 7 X 5 = Column Totals: (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 7 X 2 = FACW Species 7 X 3 = FACW UPL species 7 X 5 = Column Totals: (A) Prevalence Index vorksheet: Total % Cover of: Multiply by: OBL species 7 X 2 = FACW UPL species 7 X 5 = Column Totals: (A) Prevalence Index vorksheet: Total % Cover of: Multiply by: OBL species 7 X 5 = Column Totals: (A) Prevalence Index Species 7 X 5 = Column Totals: (A) Provlate Nation Totals: (A) Provlate Nation Totals: (A) Total Cover 1 - Repid Total Species 7 X 5 = Column Totals: (A) Total Species 7 X 5 = Column Totals: (A) Tota						60	(A/E
Prevalence Index worksheets Prevalence Index of the prev					That Are OBL, FACW, or FAC.		(A/E
B0					Prevalence Index worksheet	:	
Solidadis Soli					Total % Cover of:	Multiply by	<u>: </u>
Solve of total cover 40 20% of total cover 16 FACW species x 2 = FACW species x 3 = FACW species x 3 = FACW species x 4 = FACW species		00	- Total Ca	· · ·	OBL species	x 1 =	
paling/Shrub Stratum (Plot size: 30') Celits laevigata 5 Yes FACW Fraxinus pennsylvanica 5 Yes FACW Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 10	FOO/ of total o				FACW species	x 2 =	
Facu		·	total cover				
Fraxinus pennsylvanica 5 Yes FACW Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 10 = Total Cover 20% of total cover: 2 left Stratum (Plot size: 30') Chasmanthium latifolium 60 Yes FAC Carex cherokeensis 10 No FACW Carex cherokeensis free Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regaleight. Sapling/Shrub — Woody plants, excluding vines 3 in. DBH and greater than 3.28 ft (1 m) in than 3 in			Voc	EAC\M			
Column Totals:							
Prevalence Index = B/A =	-			FACW			
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Exp. 10 = Total Cover 20% of total cover: 2 Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regaheight. Sapling/Shrub - Woody plants, excluding vines and woody plants less than 3.28 ft tall woody vine Stratum (Plot size: 30′) none					Column Totals.	(^)	(D)
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0° 3 - Prevalence Index is ≤3.0° 4 - Problematic Hydrophytic Vegetation (Exp. 1 - Rapid Test for Hydrophytic Vegetation (Exp. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0° 4 - Problematic Hydrophytic Vegetation (Exp. 2 - Dominance Test is >50% 4 - Problematic Hydrophytic Vegetation (Exp. 2 - Dominance Test is >50% 4 - Problematic Hydrophytic Vegetation (Exp. 2 - Problematic Hydrophytic Vegetation (Exp. 2 - Problematic Hydrophytic Vegetation (Exp. 2 - Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic. Definitions of Four Vegetation Strature. Definitions of Four Vegetation Strature or problematic. Definitions of Four Vegetation Strature or in diameter at breast height (DBH), regal height. Sapling/Shrub – Woody plants, excluding vines 3 in. (7 more in diameter at breast height (DBH), regal height. Sapling/Shrub – Woody plants, excluding vines and woody plants less than 3.28 ft (1 mt) where the problematic Hydrophytic Negetation Strature (PBH), regalation (DBH),					Prevalence Index = B/A	=	
The woody plants, excluding vines as in. (Part) and greater than 3.28 ft tall. 2. Total Cover 50% of total cover: 50							
Total Cover 10 = Total Cover 2 2 2 2 2 2 2 2 2							
10							'
10							
50% of total cover: 50		10	= Total Cov	er er			nlain)
Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic. Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regal height. Sapling/Shrub – Woody plants, excluding vine han 3 in. DBH and greater than 3.28 ft (1 m) in than 3 in. DBH and greater than 3.28 ft tall. Woody vine – All woody vines greater than 3. height. Woody vine – All woody vines greater than 3. height. Woody Vine Stratum (Plot size: 30')	50% of total c	over: ⁵⁰ 20% of	total cover	2		ogotation (Ex	piairi
Chasmanthium latifolium Carex cherokeensis 10 No FACW Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), rega height. Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m) is size; and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30') none Total Cover = Total Cover = Total Cover Hydrophytic Vegetation Strata: Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), rega height. Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m) is size; and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3. height. Hydrophytic Vegetation Hydrophytic Vegetation Vegeta	lerb Stratum (Plot size: 30'				1 Indicators of budris soil and w	atland budgalar	
Carex cherokeensis 10 No FACW Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regate height. Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m) ft than 3 in. DBH and greater than 3.28 ft tall. Herb – All herbaceous (non-woody) plants, reof size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3. height. Voody Vine Stratum (Plot size: 30') none Solvent description of Four Vegetation Strata: Tree – Woody plants, excluding vines and in the plant of the		60	Yes	FAC			gy musi
Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regate height. Sapling/Shrub – Woody plants, excluding vines and in DBH and greater than 3.28 ft (1 m) of than 3 in. DBH and greater than 3.28 ft (1 m) of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3. height. Tree – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3. height. Todal Cover Todal Cover Follow of total cover: 14 Hydrophytic Vegetation	Carex cherokeensis	10	No	FACW	*		
more in diameter at breast height (DBH), regan height. Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m) than 3 in. DBH and greater than 3.28 ft (1 m) than 3 in. DBH and greater than 3.28 ft tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3. height. To a Total Cover 14 Voody Vine Stratum (Plot size: 30') none							
height. Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m) than 3 in. DBH and greater than 3.28 ft (1 m) therbaceous (non-woody) plants, referse, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3 height. To a Total Cover 50% of total cover: 35 20% of total cover: 14 Woody Vine Stratum (Plot size: 30') none Total Cover Formal Cover Hydrophytic Hydrophytic Vegetation Hydrophytic Hydrop							
Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m) than 3 in. DBH and great						gni (DBH), Tega	aluless o
than 3 in. DBH and greater than 3.28 ft (1 m) than 3 in. DBH and gre							
Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3. height.							
					than 5 m. DBH and greater tha	11 3.20 11 (1 111)	tan.
0	•						
1	·				or size, and woody plants less	than 3.28 ft tai	l.
2					Woody vine – All woody vines	greater than 3	3.28 ft in
70	1				height.		
50% of total cover: 35 20% of total cover: 14 Voody Vine Stratum (Plot size: 30') none	2						
Voody Vine Stratum (Plot size: 30') none		70	= Total Cov	er er			
none Hydrophytic Vegetation	50% of total c	over: 35 20% of	total cover	: 14			
Hydrophytic Vegetation	Voody Vine Stratum (Plot size: 30')					
Hydrophytic Total Cover Vegetation	none						
Hydrophytic Total Cover Vegetation							
Hydrophytic Total Cover Vegetation							
= Total Cover Vegetation					Livelyanhydia		
50% of total cover: 20% of total cover: Present? Yes X No	50% of total c				Present? Yes X	No	_
Remarks: (If observed, list morphological adaptations below).			Juli OUVEI	·			

SOIL Sampling Point: 3

Profile Desc	ription: (Describ	e to the depth	needed to docum	ent the indicate	or or confirn	n the absence of indic	ators.)	
Depth	Matrix			K Features				
(inches)	Color (moist)	%	Color (moist)	% Type	Loc ²	<u>Texture</u>	Remarks	
0-2	10YR 2/2	100				clay		
2-8	10YR 3/2	100				clay		
8-15	10YR 4/2	100				clay		
	-							-
l ———								—
		<u> </u>						
¹Type: C=C	oncentration D-De	anletion RM-R	educed Matrix, MS	S-Masked Sand	Grains	² Location: PL=Por	a Lining M-Matrix	_
			RRs, unless other		Jianis.		plematic Hydric Soils ³ :	
☐ Histosol				low Surface (S8)	(I RR S. T. I		•	
	oipedon (A2)			rface (S9) (LRR		2 cm Muck (A1		
	stic (A3)			/ Mineral (F1) (L			(F18) (outside MLRA 150A	A,B)
1 =	en Sulfide (A4)		Loamy Gleye				Iplain Soils (F19) (LRR P, S	
Stratified	d Layers (A5)		Depleted Mat	rix (F3)		Anomalous Bri	ght Loamy Soils (F20)	
	Bodies (A6) (LRR		Redox Dark S			(MLRA 153B	•	
	ıcky Mineral (A7) (=	k Surface (F7)		Red Parent Ma		
	esence (A8) (LRR		Redox Depre	. ,			ark Surface (TF12)	
	ick (A9) (LRR P, T		Marl (F10) (L	•	454)	U Other (Explain	n Remarks)	
	d Below Dark Surfa ark Surface (A12)	ace (A11)	_	rric (F11) (MLRA ese Masses (F12		T) 3Indicators of	hydrophytic vegetation and	
1 =	rairie Redox (A16)	(MI DA 150A)	=	ce (F13) (LRR P			rology must be present,	
	lucky Mineral (S1)			(F17) (MLRA 15			rbed or problematic.	
	Gleyed Matrix (S4)	(Little 0, 0)		tic (F18) (MLRA			ibod of problematic.	
	Redox (S5)			odplain Soils (F1				
	Matrix (S6)					RA 149A, 153C, 153D)		
Dark Su	rface (S7) (LRR P,	S, T, U)						
Restrictive I	Layer (if observed	I):						
Type:								
Depth (in	ches):		<u> </u>			Hydric Soil Present	? Yes No_X	
Remarks:						l		

Project/Site: Hemstead 78 A	cres	City/C	ounty: Hempstead (County	Sampling Date: 11/13/25
Applicant/Owner: Hempstead	County EDC			State: AR	Sampling Date: 11/13/25 Sampling Point: 4
Investigator(s): Jeremy Rowo			on, Township, Range:		
Landform (hillslope, terrace, etc Subregion (LRR or MLRA): <u>LR</u>	R P	Lat: 33.7184562	27° N Long:	93.63536072° W	/ Datum: NAD83
Soil Map Unit Name: Houston	clay, 1 to 3 percent s	lopes		NWI classific	
Are climatic / hydrologic condition					
Are Vegetation, Soil					
Are Vegetation, Soil				ا, explain any answe	
-					s, important features, etc.
Hadronka tie Venetetien Duses		No X		·	
Hydrophytic Vegetation Present Hydric Soil Present?		No X	Is the Sampled Area		V
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No X
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o		all that apply)		Surface Soil	
Surface Water (A1)		atic Fauna (B13)		_	getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	Drainage Pa	
Saturation (A3)		ogen Sulfide Odor (C		Moss Trim L	
Water Marks (B1)		•	long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iron		Crayfish Bur	
Drift Deposits (B3)	☐ Rece	ent Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)	U Othe	er (Explain in Remark	s)	Shallow Aqu	itard (D3)
Inundation Visible on Aeri	al Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9	9)			Sphagnum r	moss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No X				
Water Table Present?	Yes No X				V
Saturation Present? (includes capillary fringe)	Yes No X	Depth (inches):	Wetland	l Hydrology Preser	nt? Yes No X
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), if a	vailable:	
Remarks:					

VEGETATION ((Four Strata)	- Use scientific names	of plants.
	i oui oiluiu,	Occ colonium married	or prarred

____ 20% of total cover: 20

50% of total cover: _____ 20% of total cover: ____

50% of total cover: _____ 20% of total cover: ____

____)

Tree Stratum (Plot size: 30'

Sapling/Shrub Stratum (Plot size: _30'

Herb Stratum (Plot size: 30' 1. Andropogon virginicus

2. Vernonia baldwinii

3. Sorghum halepense

4. Sporobolus indicus

1. none

1. none

	lants.			S	Samplir	ng Point: 4	
	Dominant		Dominance Te	st workshee	et:		
% Cover	Species?	Status	Number of Dom That Are OBL, I			1	_ (A)
			Total Number o Species Across		<u>:</u>	3	_ (B)
			Percent of Dom That Are OBL, I			33	_ (A/B)
			Prevalence Ind	lex workshe	eet:		
			Total % Co	ver of:		Multiply by:	
	= Total Cov	/er	OBL species		_ x 1	=	
	f total cover		FACW species		_	=	
_ 20700	i total oovel	•	FAC species	40		= 120	
			FACU species	60	_ x 4	= 240	
			UPL species	-	_ x 5	=	
	-	-	Column Totals:	100	_ (A)	360	(B)
			Prevalenc	e Index = B	·/Δ = 3	3.6	
			Hydrophytic V		_		
				_			
			1 - Rapid T 2 - Domina			vegetation	
			3 - Prevale				
	= Total Cov	ver .	Problematic			etation¹ (Exp	lain)
000/	f total cover						
_ 20% 0	i lulai cuvei	·				, (=,tp	,
_	Yes	FAC	¹ Indicators of hy	/dric soil and	d wetla	nd hydrology	
30			be present, unle	ess disturbed	d wetla	nd hydrology oblematic.	
30	Yes	FAC	be present, unle	ess disturbed Four Vegeta	d wetla d or pro ation S	nd hydrology oblematic. Strata:	y must
30 10 30	Yes No	FAC FAC	be present, unle	ess disturbed Four Vegeta plants, exclu	d wetla d or pro ation S ding vi	nd hydrology oblematic. Strata: nes, 3 in. (7.	y must
30 10 30	Yes No Yes	FAC FAC	Definitions of I Tree – Woody p more in diameter	ess disturbed Four Vegeta plants, excluer at breast h - Woody pla	d wetlad or produced or produc	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regai	y must 6 cm) or rdless of es, less
30 10 30	Yes No Yes	FAC FAC	Definitions of I Tree – Woody p more in diamete height. Sapling/Shrub	Four Vegeta plants, excluer at breast h - Woody plants greater acceous (non	d wetlad or production Siding vineight (ants, ethan 3.1-wood)	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to	y must 6 cm) or rdless of es, less all.
30 10 30	Yes No Yes	FAC FAC	be present, unle Definitions of I Tree – Woody probability more in diameter height. Sapling/Shrub than 3 in. DBH in the best of the present of the pres	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all. gardless
30 10 30 30 30	Yes No Yes Yes	FAC FACU FACU	Definitions of I Tree – Woody part of in diameter height. Sapling/Shrub than 3 in. DBH and the height of size, and woody wine – Moody	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all.
30 10 30 30 30 30 30 30 30 30 30 30 30 30 30	Yes No Yes Yes ——————————————————————————————	FAC FACU FACU FACU	Definitions of I Tree – Woody part of in diameter height. Sapling/Shrub than 3 in. DBH and the height of size, and woody wine – Moody	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all.
30 10 30 30 30 30 30 30 30 30 30 30 30 30 30	Yes No Yes Yes	FAC FACU FACU FACU	Definitions of I Tree – Woody part of in diameter height. Sapling/Shrub than 3 in. DBH and the height of size, and woody wine – Moody	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all.
30 10 30 30 30 30 30 30 30 30 30 30 30 30 30	Yes No Yes Yes ——————————————————————————————	FAC FACU FACU FACU	Definitions of I Tree – Woody particle in diameter height. Sapling/Shrub than 3 in. DBH and the height. Herb – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs –	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all. gardless
30 10 30 30 30 30 30 30 30 30 30 30 30 30 30	Yes No Yes Yes ——————————————————————————————	FAC FACU FACU FACU	Definitions of I Tree – Woody particle in diameter height. Sapling/Shrub than 3 in. DBH and the height. Herb – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs –	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all. gardless
30 10 30 30 30 10 100	Yes No Yes Yes ——————————————————————————————	FAC FACU FACU FACU	Definitions of I Tree – Woody particle in diameter height. Sapling/Shrub than 3 in. DBH and the height. Herb – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs –	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all. gardless
30 10 30 30 30 10 100	Yes No Yes Yes ——————————————————————————————	FAC FACU FACU FACU FACU FACU	Definitions of I Tree – Woody particle in diameter height. Sapling/Shrub than 3 in. DBH and the height. Herb – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs –	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all. gardless
30 10 30 30 30 100 20% o	Yes No Yes Yes ——————————————————————————————	FAC FACU FACU	Definitions of I Tree – Woody particle in diameter height. Sapling/Shrub than 3 in. DBH and the height. Herb – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs of size, and woody vine – All herbs – All herbs – All herbs of size, and woody vine – All herbs –	ess disturbed Four Vegeta blants, excluer at breast h - Woody pla and greater accous (non ody plants le	d wetlad or protection Station	nd hydrology oblematic. Strata: nes, 3 in. (7. (DBH), regain xcluding vine .28 ft (1 m) to y) plants, reg n 3.28 ft tall.	y must 6 cm) or rdless of es, less all. gardless

Remarks: (If observed, list morphological adaptations below).

Woody Vine Stratum (Plot size: 30')

50% of total cover: 50

50% of total cover: ____

SOIL Sampling Point: 4

Color (moist) % Tayle LoC Texture Remarks	Depth	Matrix			x Features	4 2			
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Addicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1)	inches)	-		Color (moist)	<u>%</u> Tyr	pe ¹ Loc ²		Remar	ks
Histosol (A1)	-15	10YR 3/2	100		<u> </u>		clay		
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	<u>.</u>								
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)					·				
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)	(no: C-C	ncontration D-Do	nlotion PM-	-Poducod Matrix MS	S-Maskad San	d Grains	² Location: D	L-Poro Lining M-N	Antrix
Histosol (A1)						u Grains.			
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Huck Presence (A8) (LRR P, T) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Soils (F19) (LRR P, T, U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A16) (MLRA 150A) Umbric Surface (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	_		ouble to un			8) /I PP S T I		-	
Black Histic (A3)	_								
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sc m Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F1) Marl (F10) (LRR U) Depleted Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Deta Ochric (F18) (MLRA 150A, 150B) Sandy Redox (S5) Deride Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	=								de MLRA 150A.E
Stratified Layers (A5)	=			=					
5 cm Mucky Mineral (A7) (LRR P, T, U)							Anomalo	us Bright Loamy So	oils (F20)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Setrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Organic	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F6)				
1 cm Muck (A9) (LRR P, T)] 5 cm Mu	cky Mineral (A7) (L	.RR P, T, U)						
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Setrictive Layer (if observed): Type: Depth (inches): Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Jensel Matrix (F13) (LRR O, P, T) Jensel Matrix (S1) Jensel Matrix (S2) Jensel M	=			= '	` '			· ·	TF12)
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Setrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	=						U Other (Ex	xplain in Remarks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Setrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			ce (A11)	= '	, , ,	,	31	ana af baadaa aha Caa	and the Control
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No		, ,	MI DA 150A	=	,	, .	•		-
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	≝	, , ,	•						•
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX			(LIXIX O, O)					s disturbed or proble	amado.
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X									
Dark Surface (S7) (LRR P, S, T, U) estrictive Layer (if observed): Type: Depth (inches): No X	_							53D)	
Type: Depth (inches):			S, T, U)	_	o ,	, , ,	, ,	,	
Depth (inches):	estrictive l	ayer (if observed)):						
Depth (inches):	Type:								
		ches):					Hydric Soil Pr	resent? Yes	No X
		, -						<u> </u>	

Project/Site: Hemstead 78 A	cres	City/C	ounty: Hempstea	d County	Sampling Date: 11/13/25
Applicant/Owner: Hempstead	County EDC		,	State: AR	Sampling Point: 5
Investigator(s): Jeremy Rowo		Section		e: S12 T12S R25W	
Landform (hillslope, terrace, etc.	 ;.); upland flat	Local	relief (concave, cor	nvex. none); convex	Slope (%): <2
Subregion (LRR or MLRA). LR	R P	Lat: 33.7211151	1° N Lo	ng. 93.63529968° V	Slope (%): <2 VNAD83
Soil Map Unit Name: Houston	clay, 1 to 3 percent s	lopes		NWI classific	cation: nonwet
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y			
Are Vegetation, Soil					
Are Vegetation, Soil				ded, explain any answe	
					s, important features, etc.
		·			
Hydrophytic Vegetation Prese	nt? Yes /	No	Is the Sampled A		V
Hydric Soil Present? Wetland Hydrology Present?	Yes	No X	within a Wetland	? Yes	No X
Remarks:	165	NO <u>**</u>			
HYDROLOGY					
Wetland Hydrology Indicato	ers:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o		all that apply)			Cracks (B6)
Surface Water (A1)		atic Fauna (B13)		_	getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	☐ Drainage Pa	
Saturation (A3)	Hydr	ogen Sulfide Odor (C	C1)	Moss Trim L	ines (B16)
Water Marks (B1)	☐ Oxid	ized Rhizospheres a	long Living Roots (0	C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iron	, ,	Crayfish Bur	, ,
Drift Deposits (B3)		ent Iron Reduction in	Tilled Soils (C6)		risible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	$\overline{}$	Muck Surface (C7) er (Explain in Remark	2)	Geomorphic Shallow Aqu	Position (D2)
Inundation Visible on Aeri		i (Explain in Kemark	.5)	FAC-Neutra	, ,
Water-Stained Leaves (B	0 , , ,			=	moss (D8) (LRR T, U)
Field Observations:	<u>'</u>				, , ,
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No X				
Saturation Present?	Yes No X	Depth (inches):	Wetla	and Hydrology Prese	nt? Yes No X
(includes capillary fringe) Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), i	if available:	
Remarks:					

VEGETATION ((Four Strata)	– Use	scientific	names of	f plants.

	Absolute	Domina	nt Indicator	Dominance Test worksh	eet:	
Free Stratum (Plot size: 30')			s? Status	Number of Dominant Spec		
none				That Are OBL, FACW, or		(A)
				Total Number of Dominan	t	
				Species Across All Strata:		(B)
				Percent of Dominant Spec	oio o	
i				That Are OBL, FACW, or	100	(A/B
i				December of the december of the		
·				Prevalence Index works		
i				Total % Cover of:		-
		= Total C	Cover	OBL species		
50% of total cover:	20% o	f total cov	er:	FACW species		
sapling/Shrub Stratum (Plot size: 30')				FAC species		
. none				FACU species		
				UPL species		
3				Column Totals:	(A)	- (R)
				Prevalence Index =	B/A =	_
i				Hydrophytic Vegetation		
S				— 1 - Rapid Test for Hyd		
, <u> </u>				X 2 - Dominance Test is		
3				3 - Prevalence Index		
		= Total C	Cover	Problematic Hydrophy		1)
50% of total cover:	20% o	f total cov	er:			
Herb Stratum (Plot size: 30')				¹ Indicators of hydric soil a	nd wetland hydrology mi	ust
Andropogon virginicus	50	Yes	FAC	be present, unless disturb	ed or problematic.	
2. Paspalum urvillei	30	Yes	FAC	Definitions of Four Vege	tation Strata:	
3. Setaria pumila	20	Yes	FAC	Tree – Woody plants, exc	ludina vines. 3 in. (7.6 cr	m) oı
1				more in diameter at breas		
5				height.		
S				Sapling/Shrub – Woody		less
7				than 3 in. DBH and greate	r than 3.28 ft (1 m) tall.	
3				Herb - All herbaceous (no	on-woody) plants, regard	dless
9				of size, and woody plants	less than 3.28 ft tall.	
0				Woody vine – All woody v	vines greater than 3.28 f	ft in
l1				height.		
2						
		= Total C				
50% of total cover: 50) 20% o	f total cov	rer: 20			
Woody Vine Stratum (Plot size: 30')						
none						
2						
3						
1						
5				Hydrophytic		
				Vegetation Present? Yes	X No	
50% of total cover:	20% o	f total cov	er:	. 10001111 163		
Remarks: (If observed, list morphological adaptations	below).					

SOIL Sampling Point: 5

Profile Desc	cription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirm	n the absence of	f indicators.)	
Depth	Matrix			x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
0-12	10YR 3/3	100			_		clay		
12-15	10YR 4/2	95	10YR 5/8	5	С	M	clay		
	_								
				-	_				
	oncentration, D=De					rains.		L=Pore Lining, M=I	
<u> </u>	Indicators: (Appli	cable to all I			•			or Problematic Hyd	dric Soils":
Histosol	. ,		Polyvalue Be					ck (A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
	istic (A3)		Loamy Muck			R O)			ide MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)				F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR I	D T II\	Depleted Ma Redox Dark		E6)			ous Bright Loamy So A 153B)	Olis (F2U)
	ucky Mineral (A7) (L		Depleted Dai				,	ent Material (TF2)	
	resence (A8) (LRR		Redox Depre					allow Dark Surface	(TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L	•	0)			xplain in Remarks)	(11 12)
	d Below Dark Surfa		Depleted Oct		(MLRA 1	151)	00. (2	Aprairi III i terriario)	
	ark Surface (A12)	,	Iron-Mangan				, T) ³ Indicat	ors of hydrophytic	vegetation and
Coast P	rairie Redox (A16) (MLRA 150A						nd hydrology must	-
Sandy N	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (M	LRA 151)		unles	s disturbed or probl	lematic.
_	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo						
	l Matrix (S6)		Anomalous E	Bright Loa	my Soils	(F20) (MLF	RA 149A, 153C, 1	153D)	
	rface (S7) (LRR P,								
	Layer (if observed)):							
Type:									V
Depth (in	ches):						Hydric Soil P	resent? Yes	No X
Remarks:							•		

Project/Site: Hemstead 78 Acres	City/C	ounty: Hempstead Cou	ınty	Sampling Date: 11/13/25
Applicant/Owner: Hempstead County EDC		S S	tate: AR	Sampling Point: 6
	Section Section			· -
Landform (hillslope, terrace, etc.): upland flat	Local	relief (concave, convex, n	one): convex	Slope (%): <2
Subregion (LRR or MLRA): LRR P	Lat: 33.7223663	33° N Long: 93	3.63305664° W	Datum: NAD83
Landform (hillslope, terrace, etc.): upland flat Subregion (LRR or MLRA): LRR P Soil Map Unit Name: Kipling silty clay loam,	3 to 8 percent slopes, erc	oded 3 —	NWI classific	ation: nonwet
Are climatic / hydrologic conditions on the site t				
Are Vegetation, Soil, or Hydrolo				oresent? Yes X No
Are Vegetation, Soil, or Hydrolo			plain any answe	
SUMMARY OF FINDINGS – Attach				
Lindrophytic Vocatation Present?	X No			
Hydric Soil Present? Yes Hydric Soil Present? Yes	No X	Is the Sampled Area		V
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X	within a Wetland?	Yes	No X
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		<u> </u>	Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	<u> </u>		getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRF	· · ·	Drainage Pat	
Saturation (A3) Water Marks (B1)			Moss Trim Li	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burr	
Drift Deposits (B3)	Recent Iron Reduction in	` '	= 1	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	[Geomorphic	Position (D2)
Iron Deposits (B5)	U Other (Explain in Remark	s)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)		ļ	FAC-Neutral	
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No	Depth (inches):	Wetland Hy	/drology Presen	nt? Yes No_X
(includes capillary fringe) Describe Recorded Data (stream gauge, mon				
Describe Recorded Data (stream gauge, mon	toring well, aerial priotos, pre-	vious irispections), ir availa	able.	
Remarks:				

VEGETATION ((Four Strata)) – Use	scientific	names o	f plants.
	. oa. ou.au	,	0010111110	110111000	piaritoi

/EGETATION (Four Strata) – Use scientific na	Sampling Point: 6			
201		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Decorded as Index weather at
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species x 1 =
50% of total cover:	20% of	total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30')				FAC species x 3 =
1. none				FACU species x 4 =
2				UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5.				
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8.				X 2 - Dominance Test is >50%
0		= Total Cov	/Or	3 - Prevalence Index is ≤3.0¹
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30')	20 /6 01	lotal cover	•	
1. Andropogon virginicus	80	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Paspalum urvillei	15	No	FAC	
3 Cirsium discolor	5	No	UPL	Definitions of Four Vegetation Strata:
·				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 50	20% of	total cover	: 20	
Woody Vine Stratum (Plot size: 30') 1. none				
				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes X No
50% of total cover:		total cover	:	
Remarks: (If observed, list morphological adaptations bel	low).			

SOIL Sampling Point: 6

Color (moist) % Color (moist) % Toyle Loc Texture Remarks	Depth (i.e.al.a.a.)	Matrix	0/		k Features	T 1	12	T t	D	1
Section Commentation Depletion RM=Reduced Matrix, MS=Masked Sand Grains. Coation: PL=Pore Lining, M=Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indica	inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remai	KS
rype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Histosol (A1)	-15	10YR 4/3	_ 100					<u>clay</u> _		
Histosol (A1)										
Histosol (A1)										
Histosol (A1)										
Histosol (A1)										
Histosol (A1)							ns.			
Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Cogamic Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Depleted Dark Surface (F6) Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T, U) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F18) (MLRA 150A) Stripped Matrix (S6) Delta Ochric (F18) (MLRA 150A) Delta Ochric (F19) (MLRA 150A) Stripped Matrix (S6) Derth (inches): Thin Dark Surface (S9) (LRR S, T, U) Reduxed Vertic (F18) (MLRA 150A, 153C, 153D) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No	_		cable to all L				DOTI		-	lric Soils':
Black Histic (A3)										
Hydrogen Sulfide (A4)										de MLRA 150A.E
Stratified Layers (A5)	-						-,			
5 cm Mucky Mineral (A7) (LRR P, T, U)						,				
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) And indicators of hydrophytic vegetation and Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6	5)		(MLR/	A 153B)	
1 cm Muck (A9) (LRR P, T)				Depleted Dar	k Surface (F7)			, ,	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese M					, ,)				TF12)
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Delta Ochric (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No	1 cm Mu	ck (A9) (LRR P, T)		= ' '	,			U Other (E	Explain in Remarks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			ce (A11)	= '	· , ·		•			
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes NoX	2	, ,		_						-
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No	≝	. , ,		· =			U)			•
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	-		LRR O, S)						ss disturbed or probl	ematic.
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX	_									
Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Depth (inches):	-									
Strictive Layer (if observed): Type:				Anomalous B	right Loam	y Soils (F	20) (MLR	RA 149A, 153C, [,]	153D)	
Type: Depth (inches):										
Depth (inches):										
										X
marks:	Depth (inc	hes):						Hydric Soil P	resent? Yes	No <u>^</u>
	emarks:									