U.S. Army Corps of Engineers (USACE)

AUTHORIZATION TO ACT AS AN AGENT

For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act, the proponent agency is CECW-COR.

Form Approved - OMB No. 0710-0003 Expires 2027-10-31

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-003, is estimated to average 5 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

Purpose: This form is used by members of the public to authorize an agent (for example - a private consultant) to act on their behalf in all matters relating to all dealings with the USACE regarding the project. This includes taking all necessary actions for the application, processing, issuance, and/or acceptance of a Clean Water Act and/or Rivers and Harbors Act delineations, determinations, and/or permits.

This form is a component in the Corps Regulatory Request System (RRS), which is an online permitting application portal for the Regulatory Program.

	ITEMS 1 THRU 3 - FOR USACE USE ONLY								
APPLICATION NO.			2. FIELD OFFICE (CODE	ODE 3. DATE RECEIVED		EIVED		
		ITEMS	4 THRU 14 - COMPLET	D BY THE APPLICANT	or REQUEST	ror			
4. PROJECT NAME				5. PROJECT LOCATION	١				
East WilCo Highway S	Segment 6			Georgetown, TX 78626	Williamson C	County			
6. APPLICANT NAME (f	irst, middle, l	ast)		7. AGENT NAME					
County Judge Stever	Snell			Peter Van Zandt					
Company (if applicable):				Company:					
Williamson County				Halff					
E-mail Address:				E-mail Address:					
ctyjudge@wilco.org				pvanzandt@halff.com					
8. APPLICANT ADDRES	SS (if applica	ble)		9. AGENT ADDRESS (ii	f applicable)				
Address				Address					
710 South Main Stre	et, Suite 101			13620 Briarwick Drive					
City:		State:		City:		State:			
Georgetown Texas				AUSTIN		TX			
10. APPLICANT PHONE NUMBERS. w/AREA CODE			DDE	11. AGENT PHONE NUMBERS. WAREA CODE					
a.	b.		c. Fax	a. Mobile b. c. Fax			c. Fax		
+1 (512) 943-1550				+17372708711					
40. 4001.1041.1744.051.17		T. O. V.	•	•					

12. APPLICANT/AGENT CERTIFICATION

By signing below, I hereby authorize the agent listed above, to act on my behalf in all matters relating to all dealings with the USACE regarding the project and properties listed above, including taking all necessary actions for the application, processing, issuance, and/ or acceptance of a Clean Water Act and/or Rivers and Harbors Act delineations, determinations, and/or permits. Any and all acts carried out by my agent on my behalf as it relates to this project and property shall have the same effect as acts of my own.

agree to review all information submitted to the USACE on my behalf by my agent and certify that any information submitted on my behalf is rue and correct.						
13. SIGNATURE of APPLICANT or REQUESTOR	14. DATE					
18 U.S.C. Section 1001 provides that: Whoever, in any manner w	ithin the jurisdiction of any department or agency of the United States knowingly and willfully					
alsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or						

ENG FORM 6295, JAN 2025

10,000 or imprisoned not more than five years or both.

PREVIOUS EDITIONS ARE OBSOLETE.

makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than

U.S. Army Corps of Engineers (USACE)

REQUEST FOR JURISDICTIONAL DETERMINATION (JD)

For use of this form, see Sec 404 CWA, Sec 10 RHA, Sec 103 MPRSA; the proponent agency is CECW-COR.

Form Approved - OMB No. 0710-0024 Expires 2027-09-30

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and

Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332.

Principal Purpose The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the

review area that are or that may be subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public,

and may be made available as part of a public notice or FOIA request as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in any approved jurisdictional determination (AJD), which will be made available to

the public on the District's website and on the Headquarters USACE website.

Disclosure Submission of requested information is voluntary, however, if the information is not provided there may be some delay in

processing your request. Failure to provide this information will not result in an adverse action.

System of Record Notice (SORN): The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-

wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

The Agency Disclosure Notice (ADN)

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Subject to any penalty for familing to comply with	Ta concetion of information	in it does not display a curre	They valid OND control hamber.
1. To (District Name): Fort Worth District			
2. I am requesting a JD on property located at	(Street Address):		
City/Township/Parish: <u>Georgetown</u>	County:	Williamson County	State: TX
Acres of Parcel/Review Area for JD: 91.4545	<u>598</u>		
Section:	Township: _	Ran	ge:
Latitude (decimal degrees): 30.650617	Lo	ongitude (decimal degrees):	<u>-97.5268605</u> °
(For I	inear projects, please includ	de the center point of the pro	pposed alignment.)
3. Please attach a survey/plat map and vicinity	map identifying location ar	nd review area for the JD.	
4. I currently own this property.	plan to purchase this prope	erty.	
I am an agent/consultant acting on beha	If of the requester.		
Other (provide explanation):			
I am an agent/consultant acting on behalf o	f the applicant.		

5. Reason for requ	est: (check as many as applicable)
	I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.
	I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under USACE authority.
	I intend to construct/develop a project or perform activities on this parcel which may require authorization from the USACE, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
	I intend to construct/develop a project or perform activities on this parcel which may require authorization from the USACE; this request is accompanied by my permit application and the JD is to be used in the permitting process.
	I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.
	A USACE JD is required in order to obtain my local/state authorization.
	I intend to contest jurisdiction over a particular aquatic resource and request the USACE confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
	I believe that the site may be comprised entirely of dry land.
	Other
6. Type of determine	nation being requested:
I am request	ting an approved JD.
	ting a preliminary JD.
	ting a "no permit required" letter as I believe my proposed activity is not regulated. as to which JD I would like to request and require additional information to inform my decision.
_	
7. Typed or Printed	d Name: Peter Van Zandt Email:pvanzandt@halff.com
Business: (737	2) 270-8711
Company Name	: <u>Halff</u>
Address: 1362	0 Briarwick Dr, Austin, TX 78729
and do hereby gra	you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to nt Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that equisite property rights to request a JD on the subject property.
Signature:	In Jan Zand Date: 10/14/2025

U.S. Army Corps of Engineers (USACE) **DELINEATION REPORT AND JURISDICTIONAL DETERMINATION PROJECT INFORMATION SHEET** 1. APPLICATION NO. 2. FIELD OFFICE CODE 3. DATE RECEIVED 6391 APPLICANT AND AGENT INFROMATION 4. APPLICANT'S NAME 7. AGENT'S NAME County Judge Steven Snell Peter Van Zandt Company - Williamson County Company - Halff E-mail Address - ctyjudge@wilco.org E-mail Address - pvanzandt@halff.com 5. APPLICANT'S ADDRESS 8. AGENT'S ADDRESS Address – 710 South Main Street, Suite 101 Address - 13620 Briarwick Drive City - Georgetown State - TX Zip - 78626 Country - US City - AUSTIN State - TX Zip - 78729 Country - US 6. APPLICANT'S PHONE NOs. w/AREA CODE 9. AGENTS PHONE NOs. w/AREA CODE a. Business h c. Fax a. Mobile b. c. Fax (512) 943-1550 (737) 270-8711 NAME, LOCATION, AND DESCRIPTION OF PROJECT SITE 10. PROJECT NAME OR TITLE East WilCo Highway Segment 6 11. FILE NUMBER(S) OF PREVIOUS DETERMINATIONS ISSUED ON THE SITE S,W,F,-,2,0,2,4,-,0,0,5,2,1 12. PROJECT COORDINATES (in decimal degrees) 13. PROJECT STREET ADDRESS (if applicable) Address -Latitude: •N 30.650617 Longitude: •W -97.5268605 City - Georgetown State - TX Zip - 78626 14. OTHER LOCATION DESCRIPTIONS Acreage of Parcel/Review Area - 91.454598 Tax Parcel ID(s) -County - Williamson County

Section -

Township -

15. DIRECTIONS TO THE PROJECT SITE

16. REASON FOR REQUEST

17. TYPE OF REQUEST:

Range -

I am requesting an approved Jurisdictional Determination

I am requesting a preliminary Jurisdictional Determination

I am unclear as to which Jurisdictional Determination and I would like to request and require additional information to inform my decision

I am requesting a verification of an aquatic resources delineation but I am not requesting a JD



REDACTED

Appendix A1. Property Owners

	First Name	Middle Name	Last Name	Address1	Address2	City	State	Zip Code
-								
Ĺ								

Appendix B. Aquatic Resource Inventory:

Aquatic Resource Name	State	Cowardin System	Cowardin Class	HGM Class	Local Waterway Name	Measurement Type	Measurement Amount	Measurement Units	Waters Type	Latitude	Longitude
W-2	TEXAS	PALUST RINE	POW- PALUSTRIN E, OPEN WATER	DEPRESS	Open Water Pond	Area	0.45	ACRE	NON-JD - PREAMBLE - ART.LAKE.POND	30.669898	-97.535858
W-1	TEXAS	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	RIVERINE	Ephemeral Stream	Area	0.18	ACRE	NON-WOTUS- TRIB.NEGATIVE- A5	30.650657	-97.527088
W-5	TEXAS	PALUST RINE	POW- PALUSTRIN E, OPEN WATER	DEPRESS	Open Water Pond	Area	0.08	ACRE	NON-JD - PREAMBLE - ART.LAKE.POND	30.691967	-97.538575
W-4	TEXAS	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Vegetated Swale	Area	0.18	ACRE	NON-WOTUS- TRIB.NEGATIVE- A5	30.676071	-97.536569
W-3	TEXAS	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Intermittent Stream	Area	0.07	ACRE	A5.TRIB-404	30.670377	-97.535735

Appendix H. Supporting Information:

Document Type	Document Created Date (YYYY-MM-DD)	Document Label	Information Source/Citation	Uploaded file name
Other Information	2025-07-07	E WilCo Hwy Seg 6WOTUS Delineation Report	Halff_USACE	E WilCo Hwy Seg 6WOTUS Delineation Report.pdf



Aquatic Resources Delineation Report

East WilCo Highway Segment 6

Williamson County, Texas

Prepared for

Williamson County

100 Wilco Way, Suite P101 Georgetown, Texas 78626

Prepared by

Halff

13620 Briarwick Drive Building C Suite 100 Austin, Texas 78729

AVO 56571.001 July 2025

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- D Representative Photographs



Executive Summary

Williamson County retained Halff to perform a delineation of aquatic resources (e.g., wetlands, streams, ponds) and jurisdictional assessment pursuant to Section 404 of the Clean Water Act (Section 404) as part of the East WilCo Highway Segment 6 project in Williamson County, Texas. Halff conducted the delineation of aquatic features on October 15 and 18, 2024 and identified a total of five aquatic features within the project area: one ephemeral stream (W-1), one intermittent stream (W-3), two open water ponds (W-2 and W-5), and one vegetated swale (W-4).

Review of aerial imagery, topographic maps, NWI/NHD data, and conditions observed within the project area during the field investigation suggest that W-3 flows intermittently within the project area and at the stream reach scale. This feature exhibits a direct surface water connection to the San Gabriel River and ultimately to the Gulf of Mexico, a traditional navigable water (TNW) according to the United States Army Corps of Engineers (USACE).

W-1 is an ephemeral stream that was observed to be dry at the time of the field investigation and only to flow in direct response to rain events for conveyance of agricultural runoff and roadside drainage from County Road (CR) 127. In addition, a desktop streamflow duration assessment was performed at the reach scale to establish the ephemeral flow regime to the extent possible using available desktop tools and online resources. Based on the results of the streamflow duration assessment, it is Halff's professional opinion that ephemeral flow is present within this feature greater than 50% of the assessment reach. Under current USACE guidance and Section 404 regulations, this feature would not likely be considered to be a relatively permanent water (RPW) or jurisdictional WOTUS.

W-2 and W-5 are open water ponds located near the center of the project area on the south side of W-3 and approximately 0.26-mile north of Farm-to-Market 971, respectively. These features are considered to be artificial ponds constructed in upland pasture for agricultural use and are generally exempt from USACE jurisdiction under Section 404.

W-4 is a vegetated swale located in the northern-central portion of the project area. At the reach scale, the majority (>50%) of the stream reach of this feature appears to be completely vegetated without defined bed and bank material and appears to lack a continuous OHWM. Under general circumstances, this feature would not meet the definition of a stream that carries relatively permanent flow and the USACE would not likely assert jurisdiction under Section 404.

Under current USACE guidance and Section 404 regulations, it is Halff's professional opinion that W-3 meets the regulatory definition of an RPW to a TNW; therefore, this feature would likely be regulated under Section 404 by USACE.

Demonstrations of jurisdiction herein are based on a preliminary jurisdictional assessment conducted by Halff for consideration by the USACE and are provided as an information tool for the permittee. Changes to current effective rules and/or regulatory practices may result in changes to Halff's jurisdictional opinion. The actual designation will rest with the USACE Fort Worth District and the Environmental Protection Agency (EPA), the agencies with regulatory authority for jurisdictional determinations of aquatic features within the project area.



1.0 PROJECT DESCRIPTION

The proposed East WilCo Highway Segment 6 project includes constructing a new 2-lane road with 2-12' lanes and 10' shoulders that will serve as a future frontage road of the East Wilco Highway corridor. The project limits are from 1000 feet north of State Highway (SH) 29 to CR 327, an approximate length of 4.5 miles. **Figure 1** and **Figure 2** depict the general project area location in relation to the Georgetown area and local road network, respectively.

2.0 METHODS

This document meets wetland delineation guidelines published by the USACE and serves as supporting documentation for an analysis of potential permitting requirements under Section 404 of the Clean Water Act. Halff reviewed the following supporting documents prior to conducting field investigations:

- U.S. Department of Agriculture (USDA) Land Resource Region (LRR) and Major Land Resource Area (MLRA) data
- U.S. Geological Survey (USGS) quadrangle maps
- Aerial imagery
- U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) data
- USGS National Hydrography Dataset (NHD) information
- USDA Natural Resource Conservation Service (NRCS) soil survey data
- Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) data
- Light Detection and Ranging (LiDAR) digital elevation data.

Halff conducted a field investigation within the project area on October 15 and 18, 2024, to determine the extent of aquatic features with the potential to be regulated as jurisdictional WOTUS. Aquatic feature limits were assessed using the presence of an OHWM for open water features or the presence of USACE-defined wetland indicators, where applicable. Limits of aquatic features were measured during the field investigations using a Bad Elf GNSS Flex Global Positioning System (GPS) receiver capable of sub-meter accuracy, based on the World Geodetic System (WGS) 1984 Web Mercator Projection. Survey data were then converted and analyzed using ArcGIS Geographic Information System (GIS) software. Survey data and figures were projected to State Plane Central Texas Zone 4204 North American Datum (NAD 1983), with latitude and longitude coordinates reported in Global Coordinate System NAD 1983.

Trained Halff wetland scientists collected data points for unique vegetation communities encountered within the project area. Data collection was consistent with the USACE guidelines for wetland delineations prescribed in the "1987 Corps of Engineers Wetlands Delineation Manual" and the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0)." **Figure 3.0** depicts the location of wetland data points and all mapped aquatic resources found within the project area.



3.0 RESULTS

Supporting information for this report includes a USDA MLRA/LRR map, historical and recent USGS topographic maps, historical and recent aerial imagery, an NWI and NHD map, a USDA soil survey map, a floodplain map, and a LiDAR map, all of which are located in **Appendix A**. A discussion of these maps is provided in **Section 3.1**. Results of the field investigations are provided in **Section 3.2**.

3.1 Supporting Information

3.1.1 Ecological Setting Information

USDA MLRA/LRR data were reviewed to determine which location-dependent soil and hydrology indicators are applicable. MLRAs are geographically associated land resource units that aid in agricultural planning by utilizing physiography, geology, climate, water, soils, biological resources, and land use data unique to each region. LRRs are geographically associated MLRAs which approximate broad agricultural market regions.

As depicted in **Appendix A**, **Figure A-1**, The project area is located within the Southwestern Prairies Cotton and Forage Land Resource Region (LRR J) of the Great Plains and is more specifically located in MLRA 86A (Texas Blackland Prairie, Northern Part). This area is characterized by nearly level to gently sloping, dissected plain. Entrenched river and creek valleys contain dissected areas with steeper slopes. The average annual temperature in this MLRA ranges from 63 to 69 degrees Fahrenheit and the freeze-free period ranges from 250 to 310 days. This MLRA typically receives 30 to 46 inches in annual precipitation. Entisols, Mollisols, and Vertisols are the dominant soil orders in this area.

The Texas Blackland Prairie contains mixed tall and mid prairie grasses, with little false bluestem (*Schizachyrium scoparium*) being the dominant species. Other major herbaceous species include yellow Indian grass (*Sorghastrum nutans*), big bluestem (*Andropogon gerardii*), wand panic grass (*Panicum virgatum*), composite dropseed (*Sporobolus compositus*), silver bluestem (*Bothriochloa laguroides*), sideoats grama (*Bouteloua curtipendula*), eastern gramagrass (*Tripsacum dactyloides*), and vine mesquite (*Panicum obtusum*). Common forbs found in this area include prairie clover (*Dalea* sp.), perennial ragweed (*Ambrosia psilostachya*), Maximilian sunflower (*Helianthus maximiliani*), gayfeather (*Liatris* spp.), button eryngo (*Eryngium yuccifolium*), and groovestem Indian-plantain (*Arnoglossum plantagineum*). Savanna vegetation is common along the major rivers and streams. The canopy is generally dominated by oak (*Quercus* spp.), elm (*Ulmus* spp.), cottonwood (*Populus deltoides*), hackberry (*Celtis* spp.), and pecan (*Carya illinoinensis*) trees.

Currently, the project area consists of rolling plains with areas of native and non-native pastures, upland forests, and rural roadways and residential properties. Maintained herbaceous vegetation and agricultural cropland is present within the areas of existing ROW. The project area is currently used for agricultural crop production, livestock grazing, and hay production within the proposed and existing ROW.

3.1.2 Topographic Map Information

Halff assessed historical and recent USGS topographic quadrangle maps for "Taylor, Texas" and "Weir, Texas" prior to field reconnaissance to identify development, elevation contours, drainage patterns, and hydrography associated with project area and assist in determining the presence and characteristics of associated aquatic resources. See **Table 1** for a description of reviewed topographic maps (**Appendix A**, **Figures A-2** and **A-3**).



Table 1: Topographic Map Descriptions

Year	Figure	Map Description
1982	A-2	 Three intermittent streams (unnamed tributary to Pecan Branch, Pecan Branch, and Big House Branch) as indicated by dashed blue lines intersect the project area. Two ponds are depicted within the project area. The project area intersects three improved roadways and is bound by a roadway at the northern project limits. Landcover within and adjacent to the project area is primarily comprised of undeveloped herbaceous land, with two small pockets of undeveloped wooded land dispersed within the project area. The project area consists of rolling topography with elevations decreasing from 781 feet to 591 feet moving north to south.
2022	A-3	 Aquatic features within the project area appear to be mostly consistent with those depicted in the 1982 topographic map. Aquatic features and landcover appear to be unchanged compared to the 1982 topographic map.

3.1.3 Aerial Imagery Information

Halff analyzed aerial images to assist in identifying habitat characteristics, signs of inundation and saturation, and color signatures indicative of saturated soils or changes in vegetative communities that may suggest an area supports and/or functions as wetland or stream systems. A description of each aerial imagery map (Appendix A, Figures A-4 through A-6) is detailed in Table 2.

Table 2: Aerial Imagery Descriptions

Year	Figure	Map Description
1995	A-4	 The project area is depicted as undeveloped agricultural cropland, pastureland, and herbaceous landcover. One stream is depicted bisecting the central portion of the project area and shows evidence of frequent inundation. The project area is bound by a roadway to the north with three other rural roadways transecting the project area to the south. Any development in the surrounding area appears to be primarily rural residential.
2008	A-5	The project area and surrounding properties appear to be consistent with conditions observed in 1995 aerial imagery.
2024	A-6	The project area and surrounding properties appear to be consistent with conditions observed in 2008 aerial imagery.

3.1.4 NWI and NHD Information

Features mapped on the USFWS' NWI were identified from stereoscopic analysis of historical aerial imagery and are infrequently updated. Furthermore, USFWS expressly states that there is no attempt to define the limits of jurisdiction of any Federal, State, or local government, or to establish the geographic scope of the regulatory programs of any government agency. However, the NWI can be useful as background information to identify potential wetland areas prior to conducting field investigations. The USGS' NHD represents the most up-to-date and comprehensive hydrography dataset of the U.S. water drainage network. The NWI and NHD databases were reviewed to identify potential wetland areas and other aquatic resources within the project area.

Two riverine/stream features and one emergent wetland feature are depicted within the project area in the NWI and NHD databases (**Appendix A, Figure A-7**).



3.1.5 Soil Survey Information

Halff obtained soil data for the project area from the USDA NRCS Web Soil Survey Geographic Database (SSURGO), which is derived from the USDA Soil Survey for Williamson County. Soil data provide insight on soil profiles, settings, properties, and hydric characteristics.

As detailed in **Table 4**, the project area is composed of 13 soil units, all with no known/mapped hydric components. The soil units derived from the USDA GIS data are shown atop recent aerial imagery in **Appendix A**, **Figure A-8**.

Table 3: Soil Map Unit Descriptions

Soil Unit Symbol	Map Unit Name	Drainage Class	Frequency of Ponding	Hydric Components (yes/no)	Acreage of Project area	Percent of Project area
AsB	Austin silty clay, 1 to 3 percent slopes	Well drained	None	No	65.1	26.4%
AwD3	Austin-Whitewright complex, 2 to 6 percent slopes, eroded	Well drained	None	No	14.1	5.7%
BrA	Branyon clay, 0 to 1 percent slopes	Moderately well drained	None	No	23.6	9.6%
BrkB	Branyon-Krum complex, 1 to 3 percent slopes	Moderately well drained	None	No	9.4	3.8%
СаВ	Castephen silty clay, 1 to 3 percent slopes	Well drained	None	No	31.2	12.7%
CaC	Castephen silty clay, 3 to 5 percent slopes	Well drained	None	No	3.5	1.4%
ЕуВ	Eddy very gravelly clay loam, 0 to 3 percent slopes	Well drained	None	No	3.3	1.4%
EyD	Eddy very gravelly clay loam, 3 to 8 percent slopes	Well drained	None	No	5.9	2.4
НоВ	Houston Black clay, 1 to 3 percent slopes	Moderately well drained	None	No	71.5	29.0%
HoC2	Houston Black clay, 3 to 5 percent slopes, moderately eroded	Moderately well drained	None	No	7.5	3.0%
KrA	Krum silty clay, 0 to 1 percent slopes	Well drained	None	No	1.8	0.7%
QuF	Queeny-Sunev complex, 5 to 15 percent slopes	Well drained	None	No	0.4	0.1%
WhC	Whitewright silty clay loam, 1 to 5 percent slopes	Well drained	None	No	9.1	3.7%

3.1.6 Floodplain Information

According to the FEMA NFHL dataset, the majority of the project area is located within the area of minimal flood hazard while small areas associated with Pecan Branch and a tributary to Pecan Branch in the central portion of the project area are located in the 1.0% percent annual chance flood hazard (100-year floodplain). The National Flood Hazard Map (**Appendix A**, **Figure A-9**) depicts the floodplain limits within and around the project area.



3.1.7 LiDAR Information

The digital elevation model (**Appendix A**, **Figure A-10**) from the Texas Natural Resources Information System (TNRIS) 2024 5-foot LiDAR depicts the project area located at an elevation between 591 to 781 feet. Discernable depressional areas noted in the project area include Pecan Branch and Big House Branch. Analysis of LiDAR elevation data was consistent with observations made on topographic maps, aerial imagery, NWI, and NHD maps.

3.1.8 Wetland Hydrologic Index

Determining the jurisdictional status of certain waterbodies is informed by an understanding of the hydrologic flows and surface water connections that occur under normal climatic conditions (i.e., precipitation and climatic variables within the normal periodic range of an area based on a rolling 30-year period). The USACE Antecedent Precipitation Tool (APT) is utilized to compare antecedent or recent rainfall conditions for a location to the range of normal rainfall conditions that occurred during the preceding 30 years. Utilization of the APT assists in completing wetland delineations by streamlining the evaluation of precipitation normalcy and other climatic variables and assisting with determining whether observations are representative of normal climatic conditions when evaluating the jurisdictional status of aquatic resources. Furthermore, the APT can be utilized to assess presence of drought conditions, as well as the approximate dates of the wet and dry season for a given location.

According to the APT, the project area was experiencing drier than normal hydrologic conditions during the field investigation. **Table 5** summarizes the APT data derived from the date of the field investigation. The APT model, representative of conditions during the field investigation and for the rolling 30-year period, is included in **Appendix B**.

Table 4: APT Data from Field Investigations

Date	Latitude	Longitude	PDSI ¹ Value	PDSI Class	Season	ARC Score ²	Antecedent Precipitation Condition
10/15/2024	30.643145	-97.522220	-1.61	Mild Drought	Wet Season	7	Drier than Normal
10/18/2024	30.643145	-97.522220	-1.51	Mild Drought	Wet Season	6	Drier than Normal

Notes:

- 1. Palmer Drought Severity Index attempts to measure duration and intensity of long-term drought-inducing circulation patterns. Intensity of drought during the current month is dependent on current weather conditions plus the cumulative patterns of previous months.
- 2. The final precipitation normalcy index score is the summed weighted condition value across the three 30-day periods.



3.2 Field Conditions

3.2.1 Description of Aquatic Features

W-1 (Big House Branch)

Big House Branch (W-1A, W-1B, and W-1C) is an ephemeral stream that intersects the southern portion of the project area in three locations. This feature was dry at the time of the field investigation and only flows in direct response to rain events for conveyance of agricultural runoff and roadside drainage from CR 127. It is depicted as an intermittent stream on topographic maps dating back to 1893, and as a palustrine emergent wetland (PEM1C) on NWI maps. The portions of W-1 within the project area total approximately 1,276 feet in length (0.18 acre) with an average OHWM of approximately 7 feet in width. The reach of W-1 observed during the field investigation has a narrow and shallow channel with a discontinuous OHWM that transitions to portions of stream without discernable bed and bank material, resembling a wash in select locations. Sediments are poorly sorted in general within the channel and substrate material consists of silty clay, gravel, and cobble. Downstream segments of the W-1 stream channel were observed to be dry at the time of the field investigation and appears to have been modified in the past to convey stormwater between agricultural fields toward the San Gabriel River. W-1 flows to its confluence with the San Gabriel River approximately 1.6 miles to the south of the project area, which leads to the Little River and ultimately to the Brazos River. Soils underlying the channel are mapped as Houston Black clay, 1 to 3 percent slopes, which is not listed as a hydric soil in Williamson County. See Appendix A, Figures 3-2 and 3-3 and Appendix D, Photographs 3-7 and 9-10.

W-2 (Open Water Pond)

W-2 is an open water pond (0.45 acre) located in the central portion of the project area on the south side of Pecan Branch (W-3). The pond is visible on topographic maps dating back to 1982 and is not depicted on current NWI maps. W-2 is not located within the 100-year or 500-year floodplain of Pecan Branch (W-3). Underlying soils are mapped as Houston Black clay, 1 to 3 percent slopes, which is not listed as a hydric soil in Williamson County. The pond is unvegetated and the surrounding plant community is dominated by bermudagrass (**Appendix A**, **Figure 3-4** and **Appendix D**, **Photograph 11**).

W-3 (Pecan Branch)

Pecan Branch (W-3) is an intermittent stream that intersects the central portion of the project area. It is depicted as an intermittent stream on topographic maps dating back to 1893 and a riverine intermittent streambed (R4SBC) on current NWI maps. The portion of W-3 within the project area is approximately 428 feet in length (0.07 acre) with an average OHWM of approximately 8 feet in width. During the site investigation, approximately 3 feet of standing water was observed at multiple locations of W-3 within the project area. W-3 flows to its confluence with the San Gabriel River approximately 6.5 miles to the southeast of the project area, which leads to the Little River and ultimately to the Brazos River. Soils underlying the channel are mapped as Branyon clay, 1 to 3 percent slopes and Houston Black clay, 1 to 3 percent slopes which are not listed as hydric soils in Williamson County. The stream channel is unvegetated and the surrounding plant community is dominated by bermudagrass, yellow bluestem, cottonwood, and sugarberry (Appendix A, Figure 3-4 and Appendix D, Photograph 12).

W-4 (Unnamed Tributary to Pecan Branch)

Due to a lack of right-of-entry at the time of the field investigation, W-4 was delineated via desktop methods only. Based on observations made from public right-of-way and aerial imagery, this feature was observed to be a vegetated swale that flows in direct response to rain events. W-4 is approximately 635 feet in length (0.18 acre) that intersects the central-northern portion of the project area and receives drainage from adjacent agricultural fields and CR 124. A discontinuous OHWM was observed on aerial imagery within the assessment stream reach. Approximately one-half of the vegetated swale is within the 100-year floodplain.



The other approximate half of the vegetated swale is within the area of minimal chance flood hazard zone. It is depicted as an intermittent stream on topographic maps dating back to 1982 and as a seasonally flooded intermittent riverine streambed (R4SBC) on NWI maps. Soils underlying this feature are mapped as Houston Black clay, 1 to 3 percent slopes, which is not listed as a hydric soil in Williamson County. Field observations were made from CR 124 located approximately 525 feet to the northeast of the project area and the swale was observed to be entirely vegetated with a species of cordgrass which is generally not considered to be hydrophytic. The surrounding plant community is dominated by bermudagrass and yellow bluestem. See **Appendix A**, **Figure 3-5** and **Appendix D**, **Photograph 13** taken from public right-of-way.

W-5 (Open Water Pond)

Due to a lack of right-of-entry at the time of the field investigation, W-5 was delineated via desktop methods only. Based on observations made from aerial imagery, this feature measures approximately 0.08 acre and appears to be a dry stock pond with no direct downstream surface connection to waterbodies or wetlands in the vicinity of the project area. The pond is visible on topographic maps dating back to 1982 and is not depicted on current NWI maps. Underlying soils are mapped as Austin silty clay, 1 to 3 percent slopes and Castephen silty clay, 1 to 3 percent slopes which are not listed as hydric soils in Williamson County. The pond is unvegetated and the surrounding plant community is dominated by bermudagrass (**Appendix A**, **Figure 3-4** and **Appendix D**, **Photograph 11**).

3.2.2 Vegetation

During the field investigation, Halff collected a total of eight wetland data points to characterize the land cover and identify aquatic features within the project area. Three dominant vegetation communities were observed within the project area: upland scrub-shrub, upland woodland, and upland herbaceous. No wetland features were observed within the project area during the investigation. Data point locations and aquatic features located within the project area can be seen overlaid on recent aerial imagery in **Appendix A**, **Figures 3-1** through **3-8**. Refer to **Appendix C - Wetland Data Forms** for the completed wetland determination data forms for the project. Refer to **Appendix D - Representative Photographs** for photographs of vegetation communities and aquatic features observed within the project area.

Table 5: Wetland Determination Data Form Summary

Vegetation Community	Data Points	Dominant Vegetation ¹	Hydric Soil Indicators	Wetland Hydrology Indicators	
Upland Scrub- Shrub	DP01, DP02,	Arundo donax (FAC) Celtis laevigata (FAC) Ambrosia trifida (FAC) Toxicodendron radicans (FACU) Vitis mustangensis (UPL)			
Upland Woodland	DP04,	Celtis laevigata (FAC) Sorghum halepense (FAC) Ambrosia trifida (FAC) Baccharis halimifolia (FAC) Rubus trivialis (FACU)			
Upland Herbaceous	DP03, DP05, DP06, DP07, DP08	Sorghum halepense (FAC) Ambrosia trifida (FAC) Zea mays (UPL) Celtis laevigata (FAC) Cynodon dactylon (FACU) Xanthium orientale (UPL) Arundo donax (FAC) Bothriochloa ischaemum (UPL)		Surface Soil Cracks (B6), Drainage Patterns (B10), Geomorphic Position (D2)	



[.] FAC: Facultative Plant; FACU: Facultative Upland Plant; OBL: Obligate Wetland Plant; UPL: Upland Plant



3.2.4 Summary of Aquatic Features

A summary of the mapped aquatic features within the project area can be found in Table 7.

Table 6: Summary of Aquatic Features

Name	Туре	Data Point	Latitude, Longitude	Area within Project Area (acres)	Length (linear feet)	Average OHWM Width (feet)	Jurisdictional WOTUS (yes/no)
W-1A	Ephemeral Stream	N/A	30.650657, -97.527088	0.05	504	5	No
W-1B	Ephemeral Stream	N/A	30.651703, -97.526655	0.04	172	10	No
W-1C	Ephemeral Stream	N/A	30.660485, -97.531469	0.09	600	7	No
W-2	Open Water Pond	N/A	30.669898, -97.535858	0.45	N/A	N/A	No
W-3	Intermittent Stream	N/A	30.670377, -97.535735	0.07	428	8	Yes
W-4	Vegetated Swale	N/A	30.676071, -97.536569	0.18	635	14	No
W-5	Open Water Pond	N/A	30.691967, -97.538575	0.08	N/A	N/A	No

4.0 CONCLUSION

Federal regulations (33 Code of Federal Regulations Section 328.3(a)) note that WOTUS may include intrastate rivers and streams, including impoundments and other waters. In response to a Supreme Court decision (*Rapanos v. U.S.*, 547 S. Ct. 715 [2006]) addressing the limits of federal jurisdiction, the USACE and EPA have issued further guidance and require additional documentation to support jurisdiction. Per joint USACE/EPA guidance documents issued after the *Rapanos* decision, the regulatory agencies continue to assert jurisdiction over the following waters:

- TNWs
- Wetlands adjacent to TNWs
- Non-navigable tributaries of traditionally navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months)
- Wetlands that directly abut such tributaries

Halff conducted the delineation of aquatic features on October 15 and 18, 2024 and identified a total of five aquatic features within the project area: one ephemeral stream (W-1), one intermittent stream (W-3), two open water ponds (W-2 and W-5), and one vegetated swale (W-4).

Review of aerial imagery, topographic maps, NWI/NHD data, and conditions observed within the project area during the field investigation suggest that W-3 flows intermittently within the project area and at the stream reach scale. This feature exhibits a direct surface water connection to the San Gabriel River and ultimately to the Gulf of Mexico, a TNW according to the USACE.



On August 29, 2023, the EPA, and Department of the Army (the agencies) issued a final rule amending the 2023 definition of "waters of the U.S." to conform with the recent Supreme Court decision in *Sackett v. EPA*. As of this report, the agencies are interpreting WOTUS consistently with *Rapanos v. United States* and *Carabell v. United States* (EPA 2008) (i.e., pre-2015 regulatory regime), in addition to key revisions to the definition of WOTUS under the *Sackett* ruling.

W-1 is an ephemeral stream that was observed to be dry at the time of the field investigation and to only flow in direct response to rain events for conveyance of agricultural runoff and roadside drainage from CR 127. In addition, a desktop streamflow duration assessment was performed at the reach scale to establish ephemeral flow regimes to the extent possible using available desktop tools and online resources. Based on the results of the streamflow duration assessment, it is Halff's professional opinion that ephemeral flow is present within this feature greater than 50% of the assessment reach. Under current USACE guidance and Section 404 regulation, this feature would not likely be considered to be an RPW or jurisdictional WOTUS.

W-2 and W-5 are open water ponds located near the center of the project area on the south side of W-3 and approximately 0.26-mile north of Farm-to-Market 971, respectively. These features are considered to be artificial ponds constructed in upland pasture for agricultural use. The ponds are not within 100-year floodplains and have no observable direct downgradient surface water connections to a WOTUS. Therefore, W-2 and W-5 would not likely be subject to regulation under Section 404.

Due to a lack of right-of-entry at the time of the field investigation, W-4 was delineated via desktop methods only. Based on observations made from public right-of-way and aerial imagery, this feature was observed to be a vegetated swale with only small segments that exhibit a discernable OHWM and appeared to flow in direct response to rain events. At the reach scale, the majority (>50%) of the stream reach of this feature appears to be completely vegetated without defined bed and bank material and appears to lack a continuous OHWM. Under general circumstances, this feature would not meet the definition of stream that carries relatively permanent flow and the USACE would not likely assert jurisdiction under Section 404; however, further investigation may be warranted for any proposed impacts to W-4 in the future to evaluate whether wetland (hydrophytic) vegetation or hydric soils are present within the vegetated swale. If hydrophytic vegetation or hydric soils are identified within this feature, USACE may consider it to be a regulated wetland swale.

Under a review of jurisdiction based on the pre-2015 regulatory regime and the *Sackett* decision, it is Halff's professional opinion that only W-3 would meet the regulatory definition of a RPW to a TNW; therefore, this feature would likely be regulated under Section 404 by USACE.

Demonstrations of jurisdiction herein are based on a preliminary jurisdictional assessment conducted by Halff for consideration by the USACE and are provided as an information tool for the permittee. Changes to current effective rules and/or regulatory practices may result in changes to Halff's jurisdictional opinion. The actual designation will rest with the USACE Fort Worth District and the EPA, the agencies with regulatory authority for jurisdictional determinations of aquatic features within the project area.



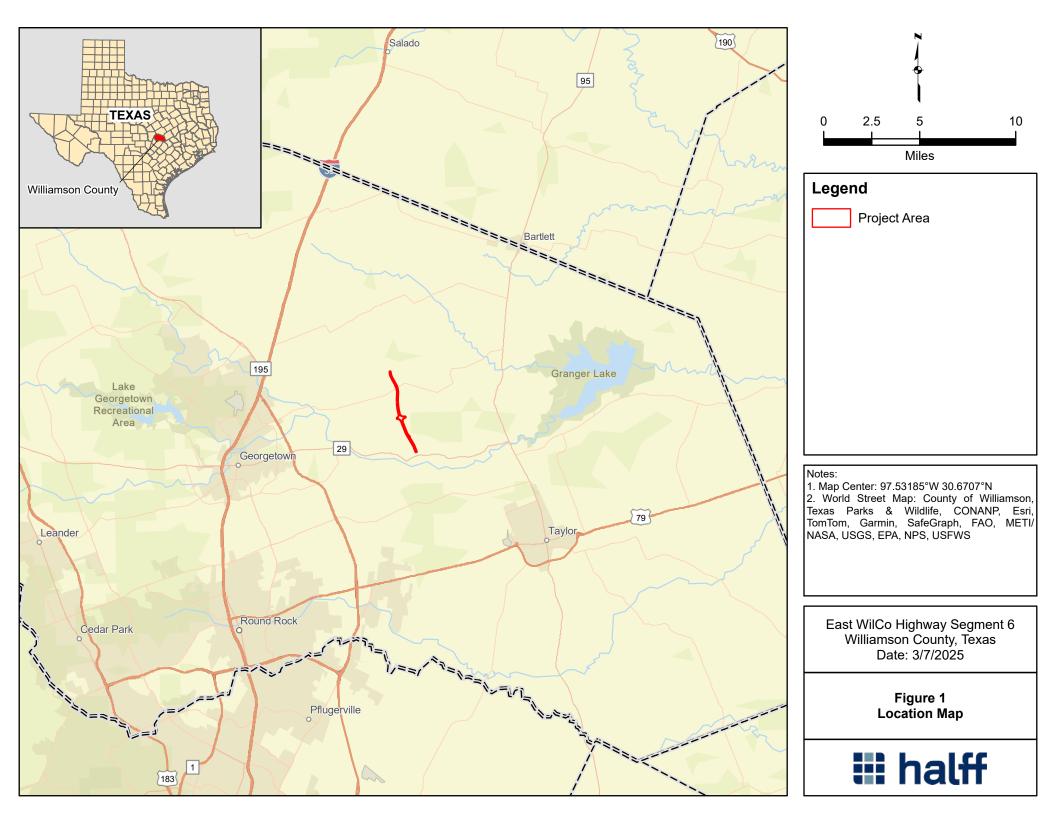
5.0 REFERENCES

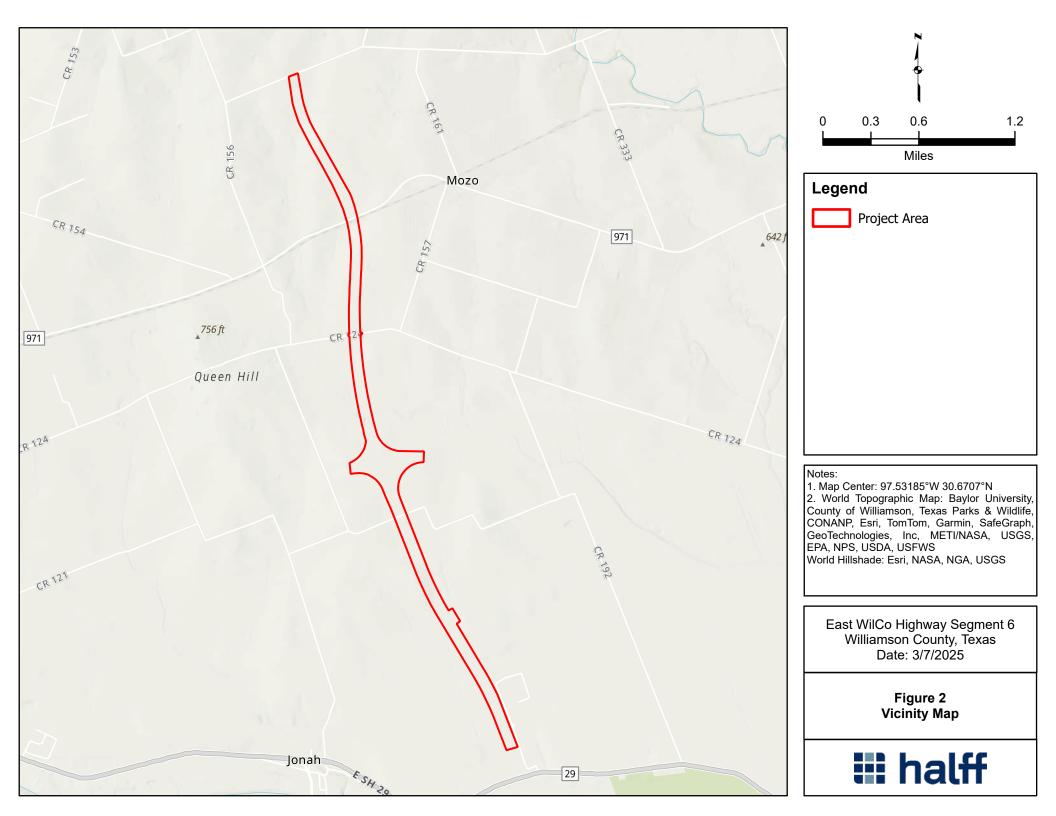
- Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Jamestown, ND: Northern Prairie Wildlife Research Center Online. http://www.npwrc.usgs.gov/resource/wetlands/classwet/index.htm (Version 04DEC1998).
- Federal Emergency Management Agency (FEMA). National Flood Hazard Layer. Accessed January 2025.
- Google Inc. 2009. Google Earth (Version 5.1.3533.1731) [Software]. Accessed January 2025.
- Lists of Hydric Soils. National List; all states. United States Department of Agriculture. National Resource Conservation Service. Available online at http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/. Accessed January 2025.
- Munsell® Soil Color Charts. 2009. Gretag Macbeth, New Windsor, New York
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed January 2025.
- United States Department of Agriculture, Natural Resources Conservation Service. 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. L.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
- U.S. Army Corps of Engineers (USACE). Regulatory Guidance Letter: Ordinary High Water Mark Identification. Available online http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rg105-05.pdf.
 ______. 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
 ______. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0), ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- _____. 2022. National Wetland Plant List, version 3.6. U.S. Army Engineer Research and Development Center, Vicksburg, MS. http://wetland-plants.usace.army.mil/

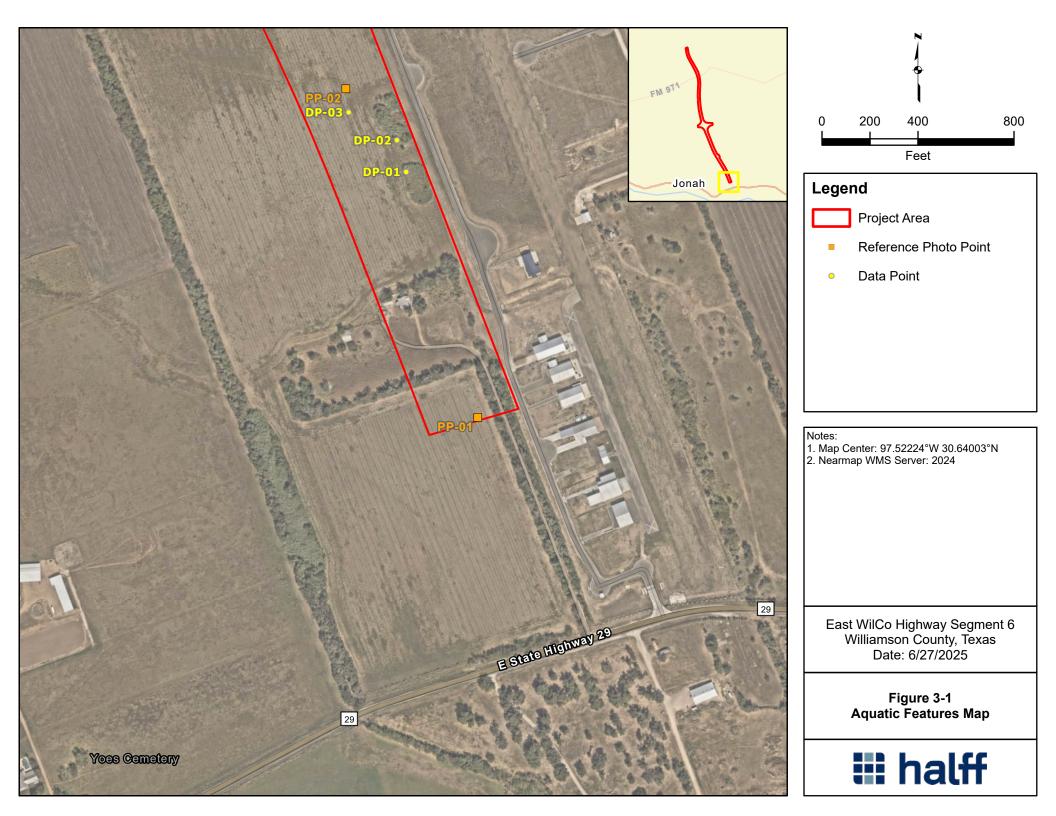


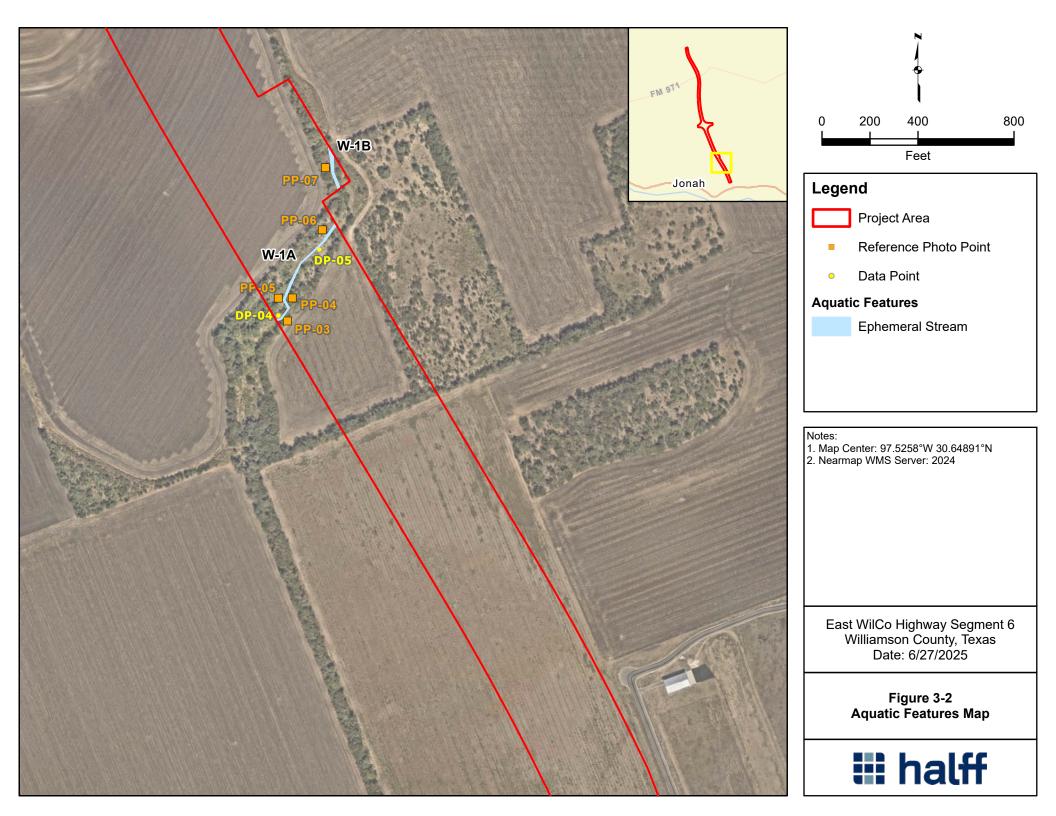
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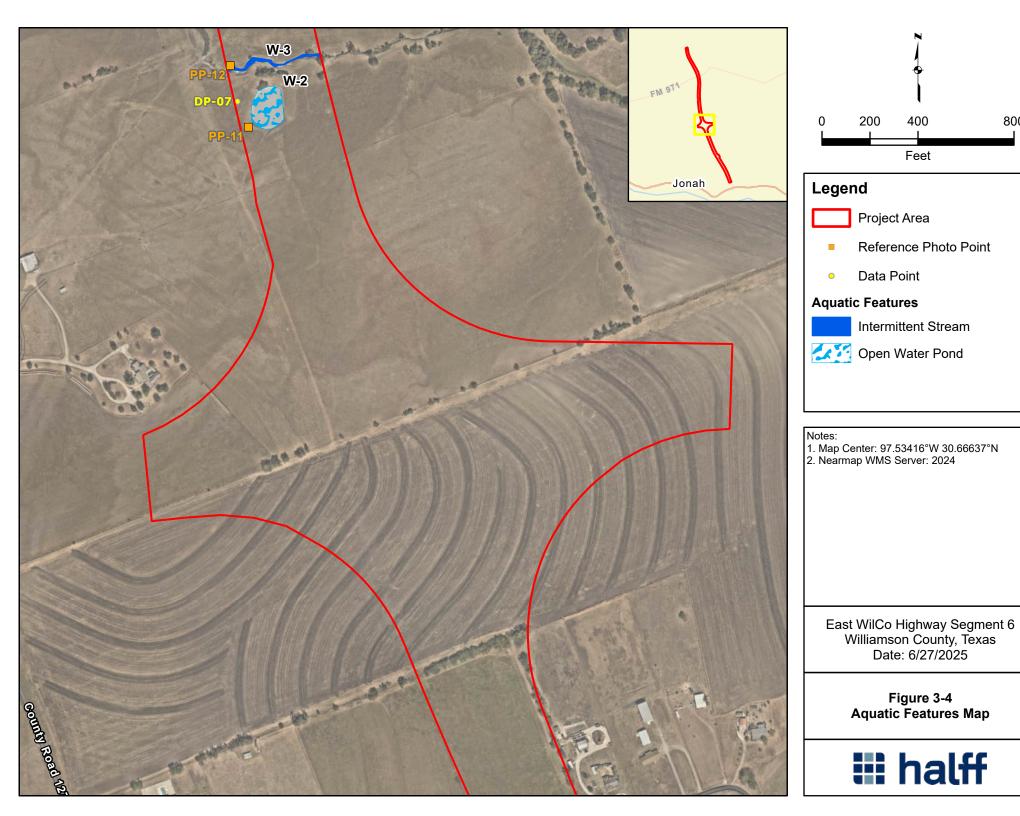


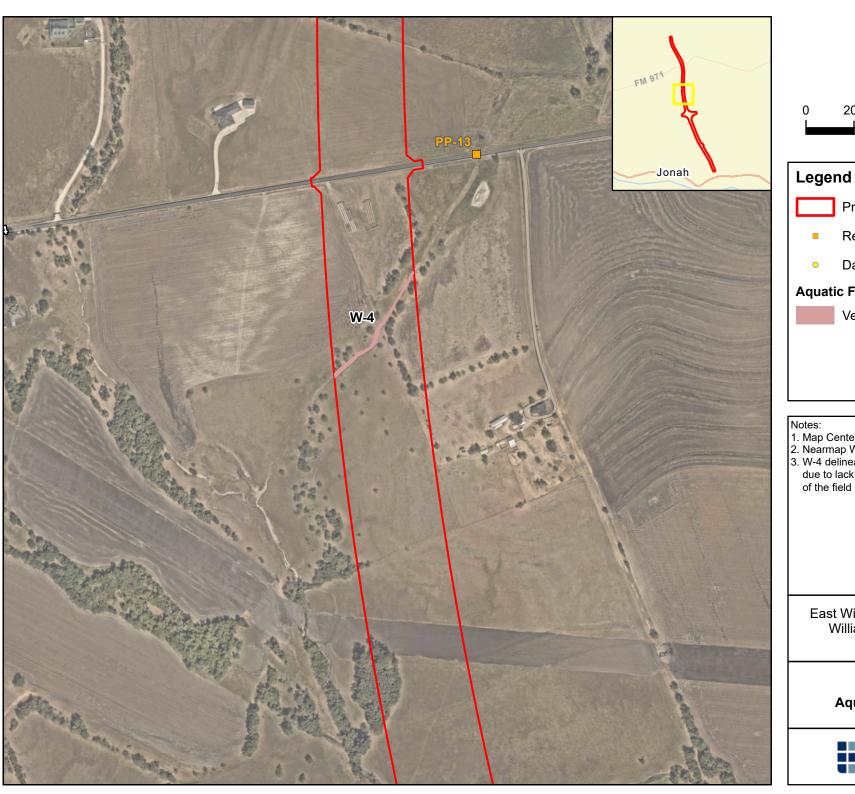


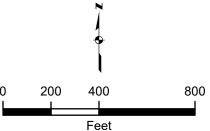












Project Area

- Reference Photo Point
- Data Point

Aquatic Features



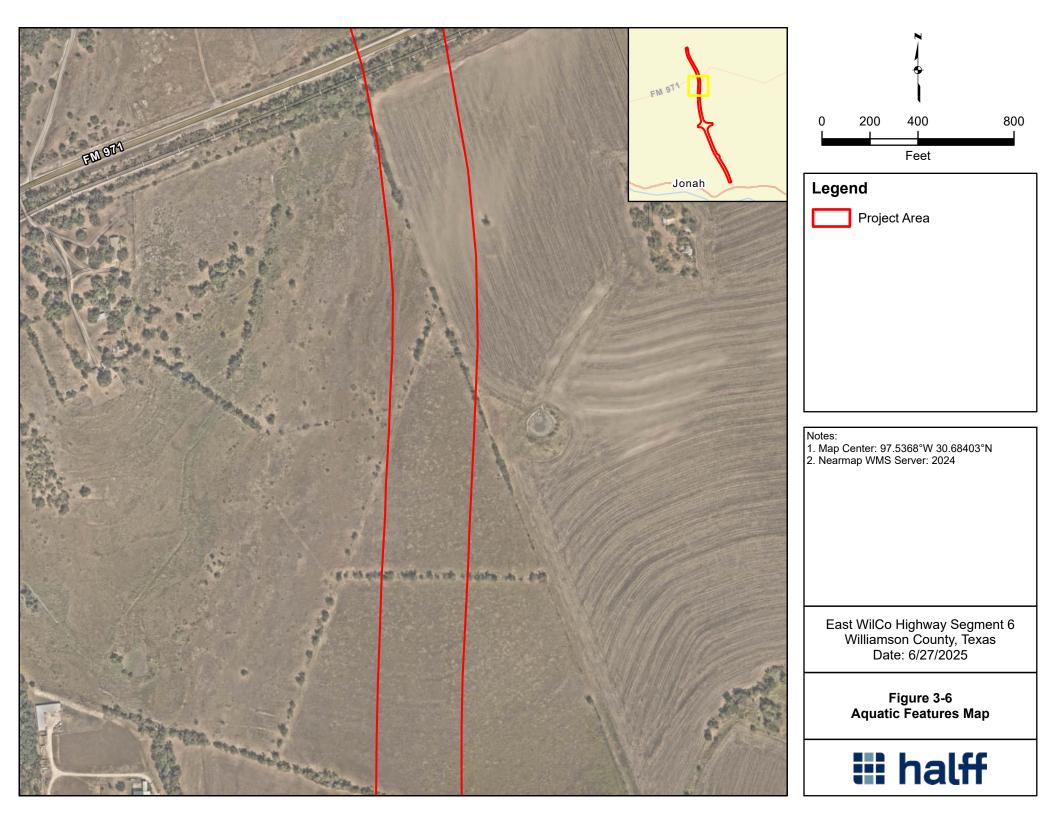
Vegetated Swale

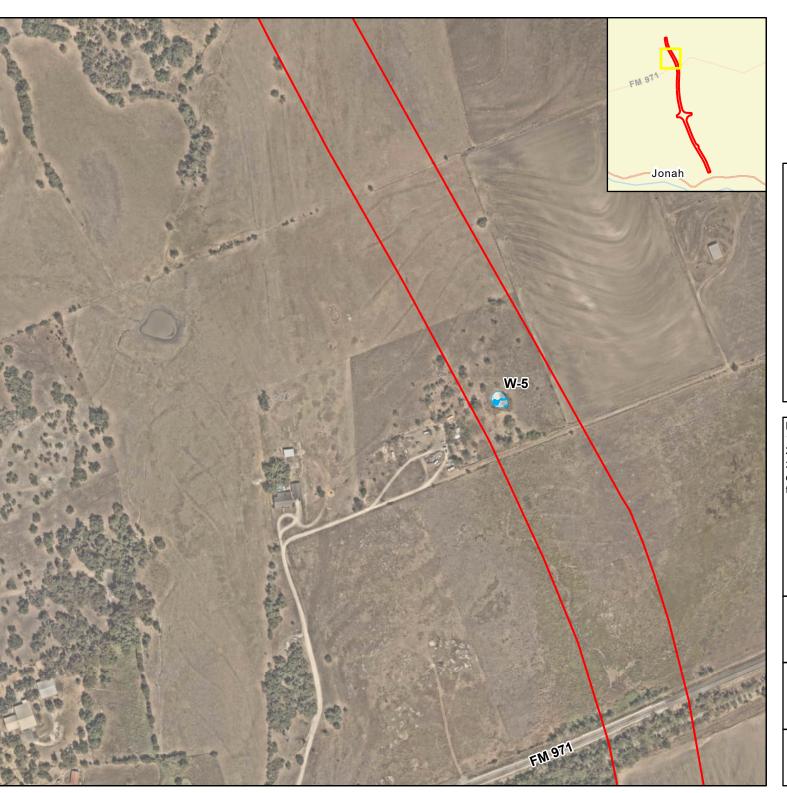
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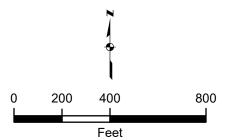
East WilCo Highway Segment 6 Williamson County, Texas Date: 6/27/2025

Figure 3-5 Aquatic Features Map









Legend

Project Area

Aquatic Features



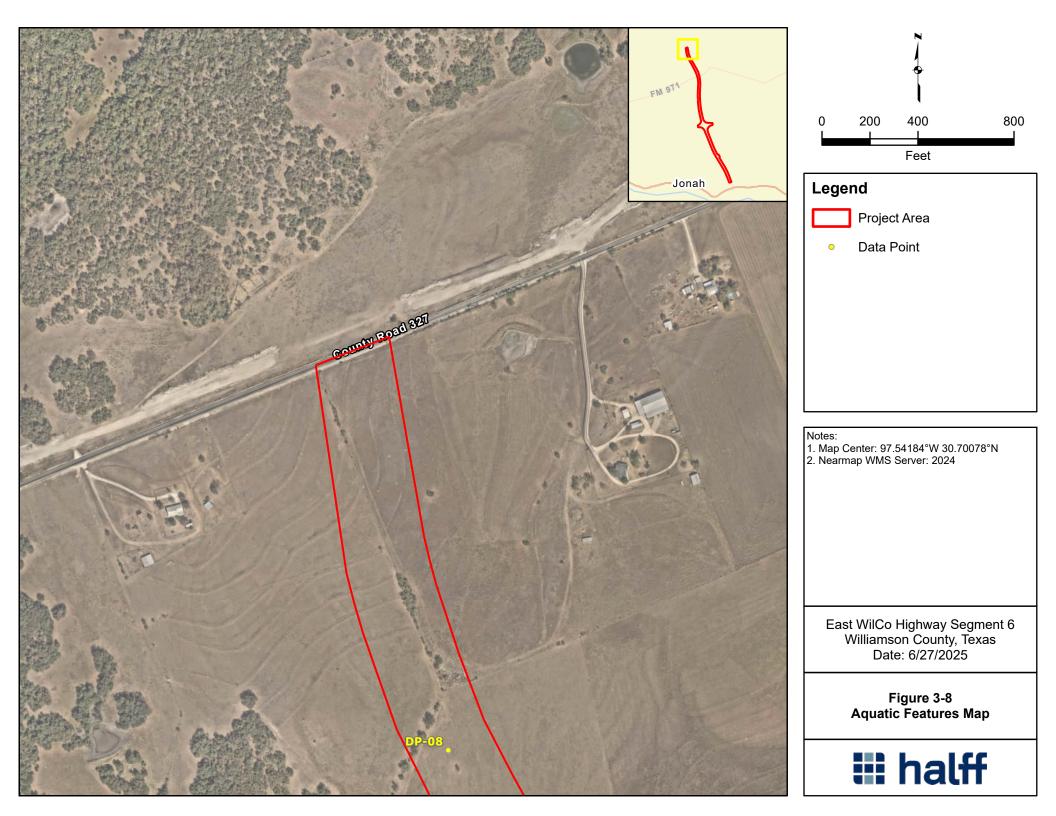
Open Water Pond

- 1. Map Center: 97.54011°W 30.69196°N 2. Nearmap WMS Server: 2024
- 3. W-5 delineated via desktop methods only due to lack of authorized access at the time of the field investigation.

East WilCo Highway Segment 6 Williamson County, Texas Date: 7/6/2025

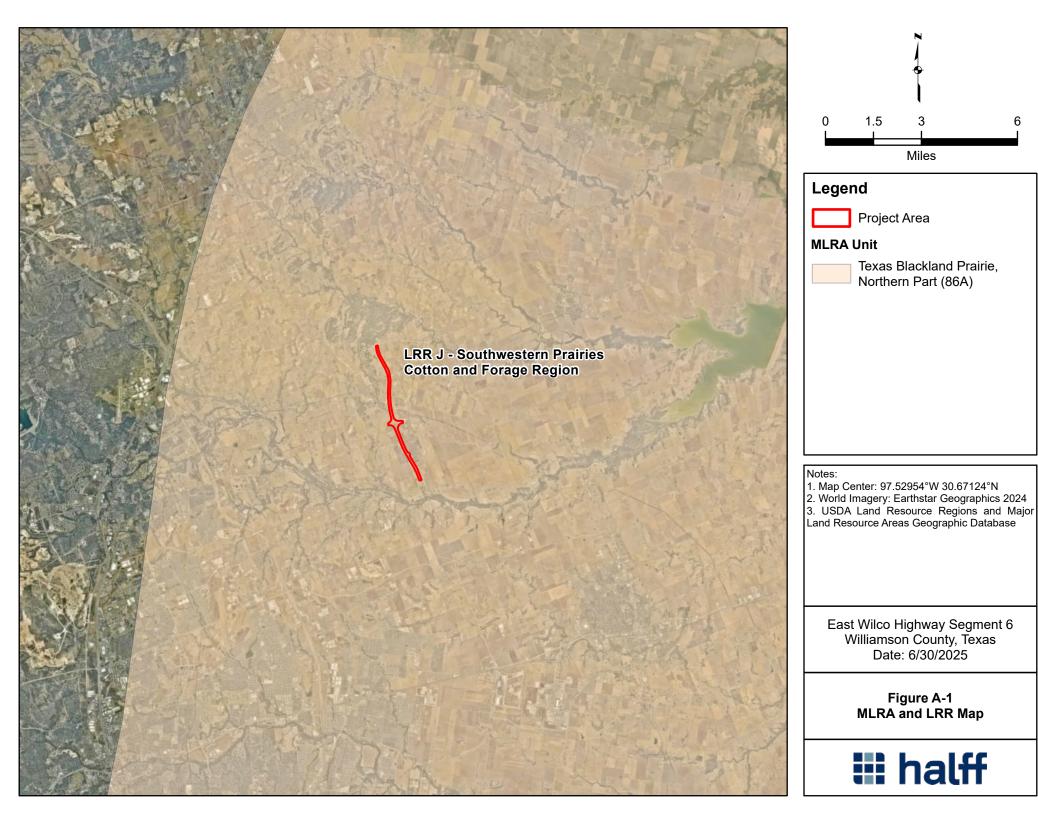
Figure 3-7 Aquatic Features Map

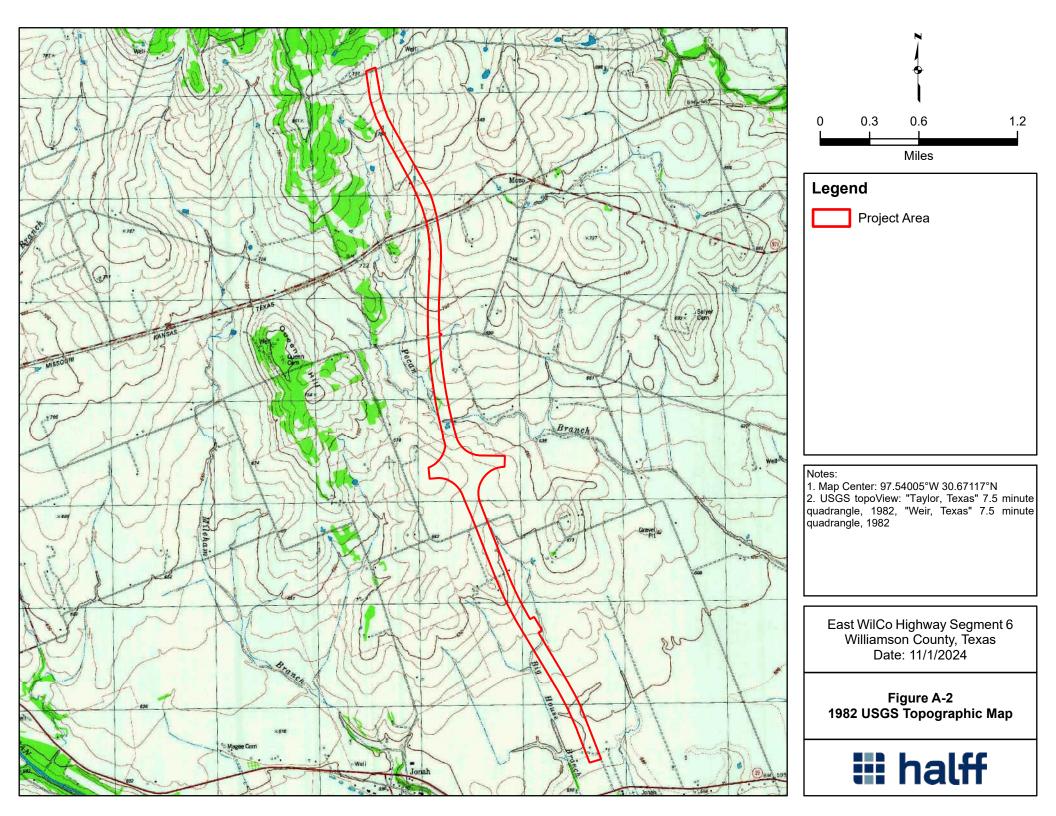


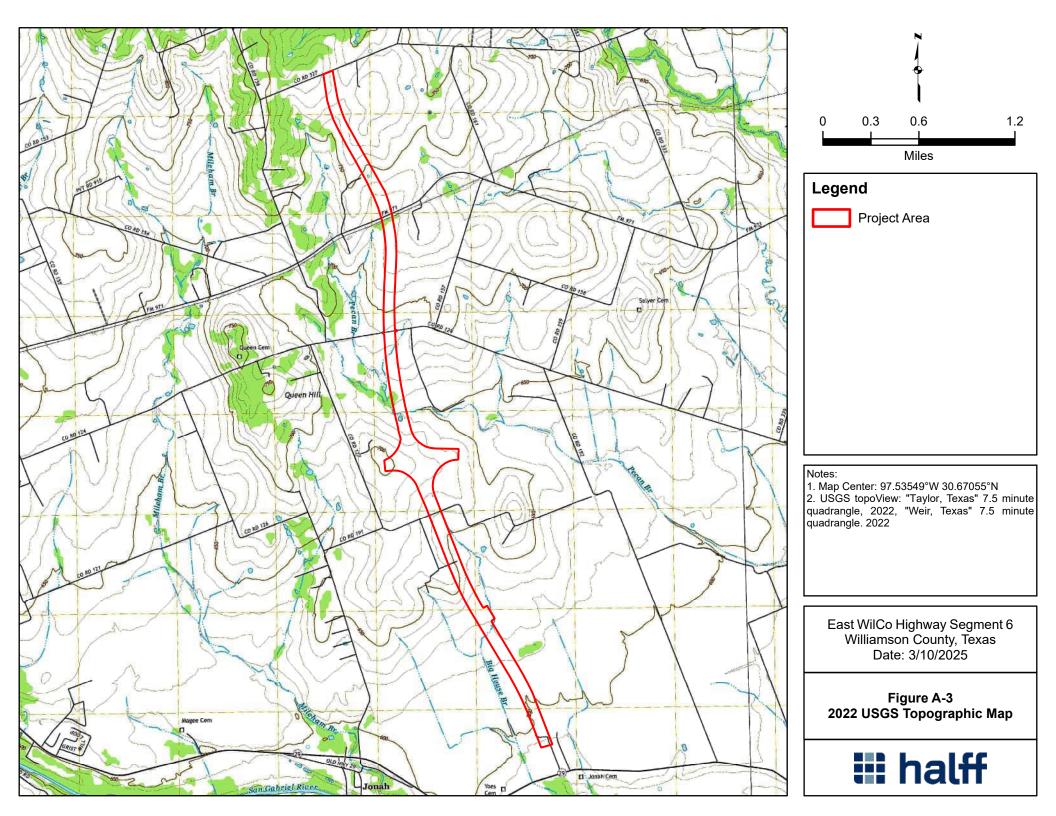


Appendix A: Supporting Documentation

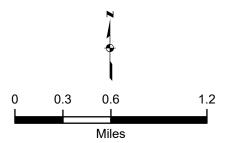












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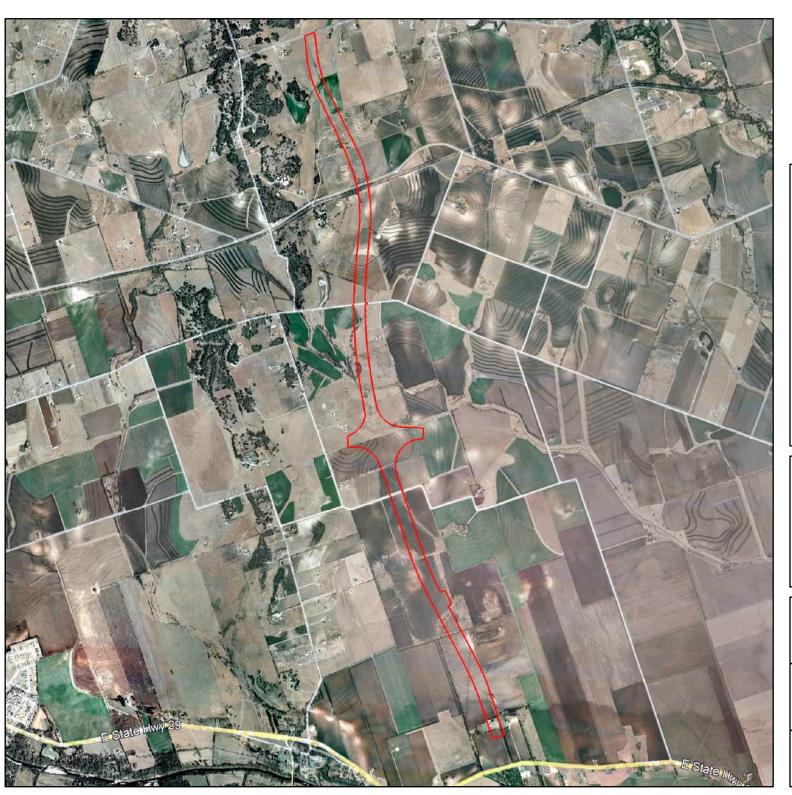
Project Area

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 Strategic Mapping Program - Texas
 Orthoimagery Program Imagery: TNRIS

East WilCo Highway Segment 6 Williamson County, Texas Date: 11/1/2024

Figure A-4 1995 Aerial Imagery Map







Legend

Project Area

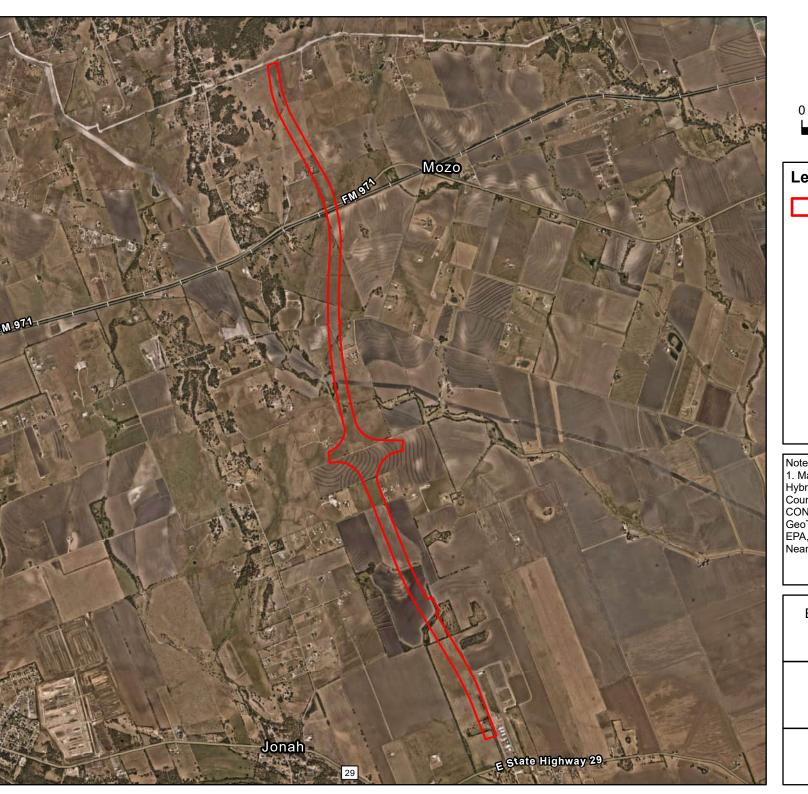
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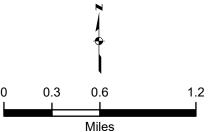
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East WilCo Highway Segment 6 Williamson County, Texas Date: 11/1/2024

Figure A-5 2008 Aerial Imagery Map







Legend

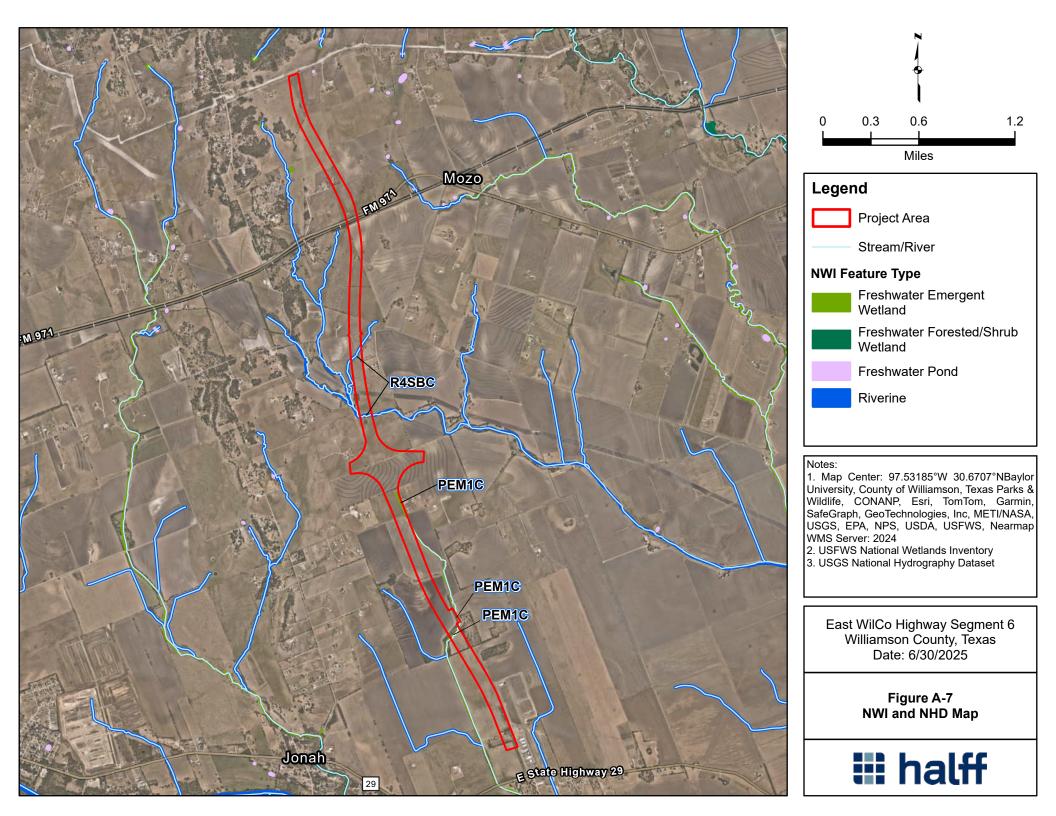
Project Area

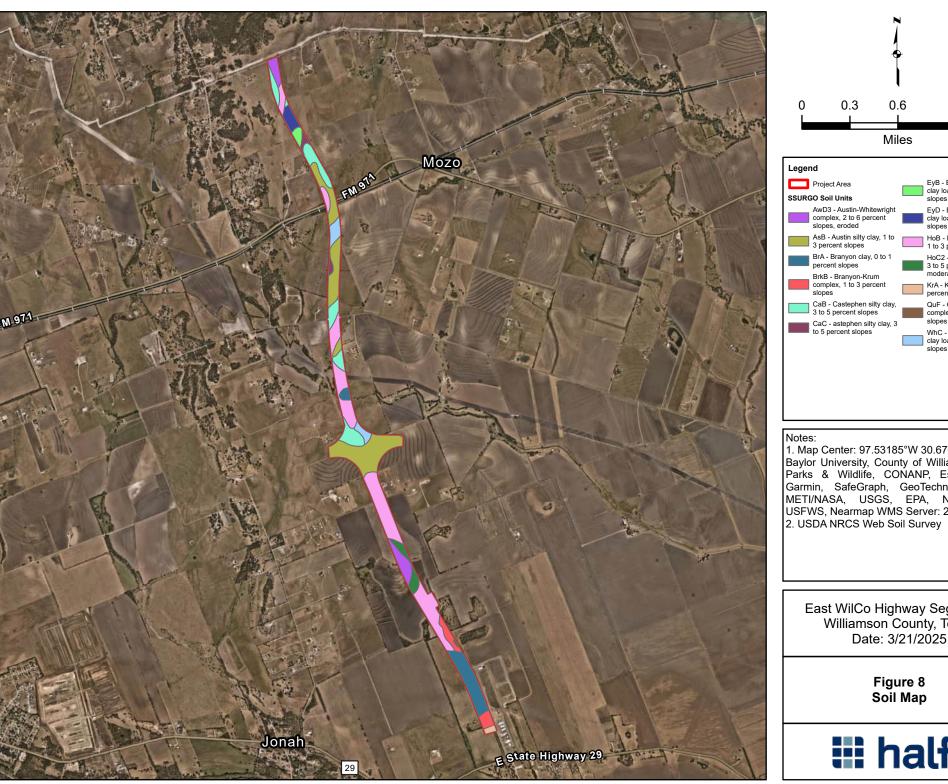
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Hybrid Reference Layer: Baylor University,
County of Williamson, Texas Parks & Wildlife,
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GeoTechnologies, Inc, METI/NASA, USGS,
EPA, NPS, USDA, USFWS Nearmap WMS Server: 2024

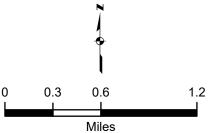
East WilCo Highway Segment 6 Williamson County, Texas Date: 11/1/2024

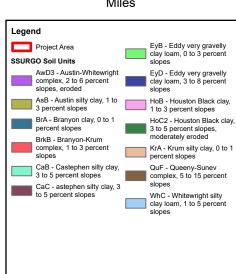
Figure A-6 2024 Aerial Imagery Map







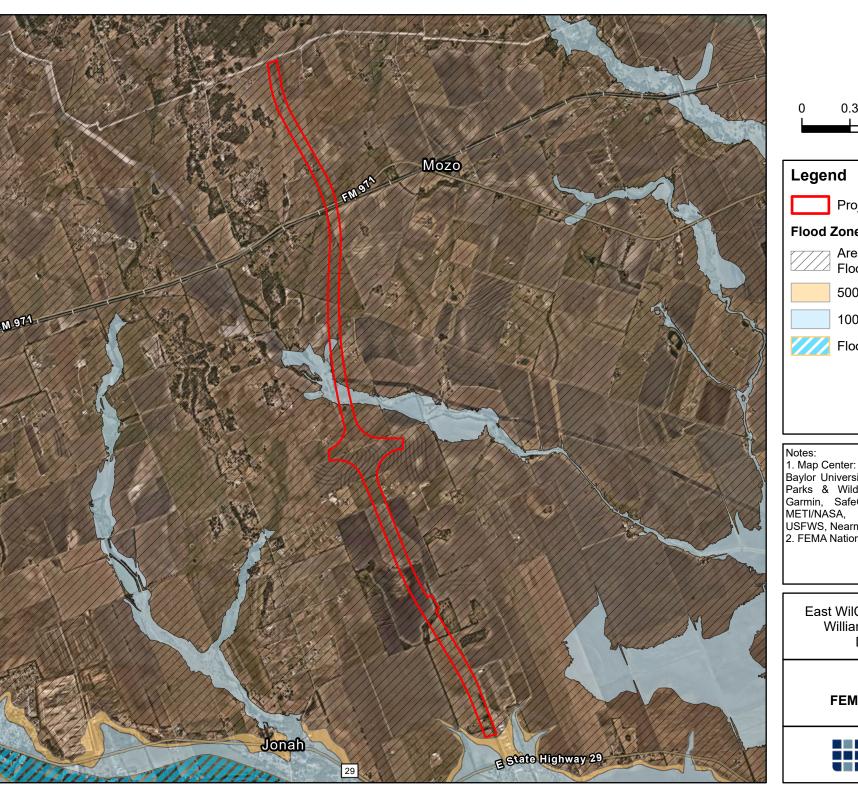


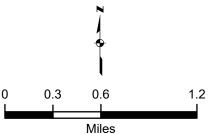


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East WilCo Highway Segment 6 Williamson County, Texas



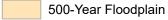


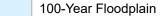


Project Area

Flood Zone Type

Area of Minimal Chance Flood Hazard





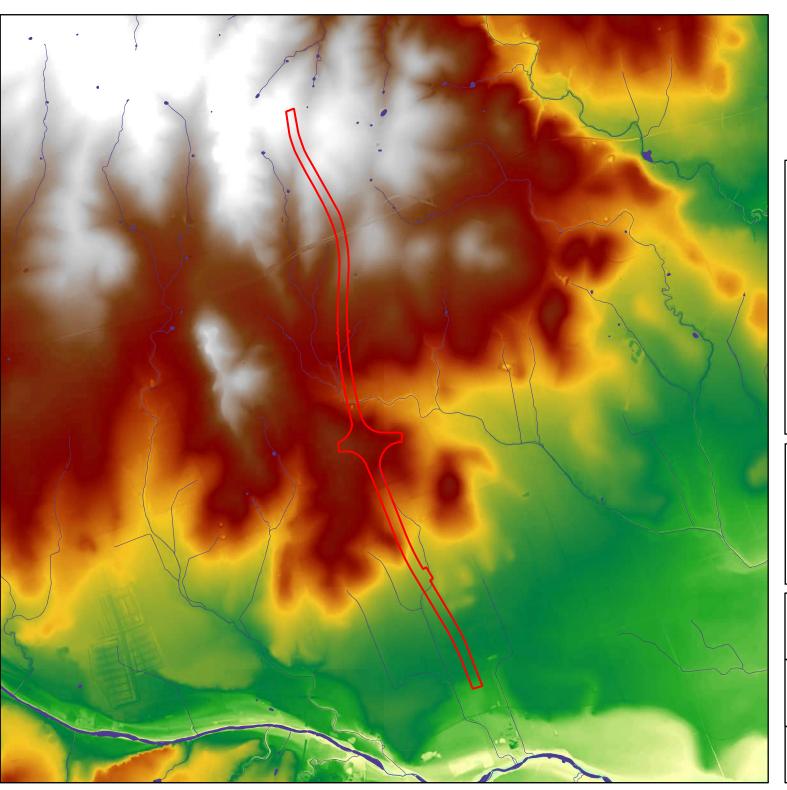


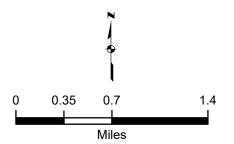
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Baylor University, County of Williamson, Texas
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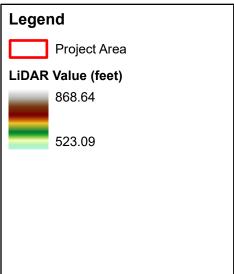
East WilCo Highway Segment 6 Williamson County, Texas Date: 3/9/2025

> Figure A-9 **FEMA Floodplain Map**









Notes:

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- 2. TNRIS, 2024, (Weir SW, Weir SE, Weir NE, Weir NW, Granger NW, Granger SW)

East WilCo Highway Segment 6 Williamson County, Texas Date: 3/10/2025

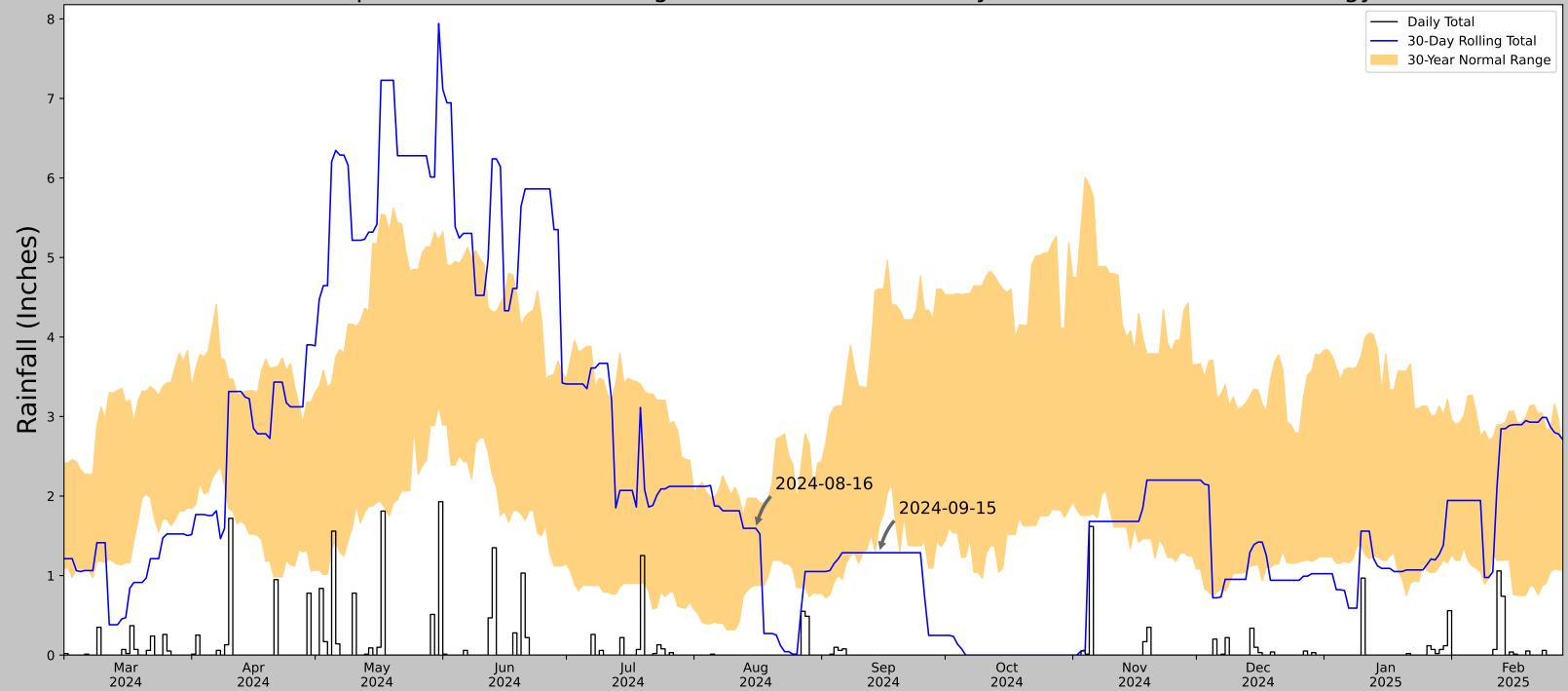
> Figure A-10 LiDAR Map



Appendix B: APT Model



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



Coordinates	30.64314575, -97.52222002
Observation Date	2024-10-15
Elevation (ft)	600.354
Drought Index (PDSI)	Mild drought
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
2024-10-15	1.099606	4.605512	0.0	Dry	1	3	3
2024-09-15	1.632284	4.606299	1.287402	Dry	1	2	2
2024-08-16	0.877953	1.972441	1.594488	Normal	2	1	2
Result							Drier than Normal - 7

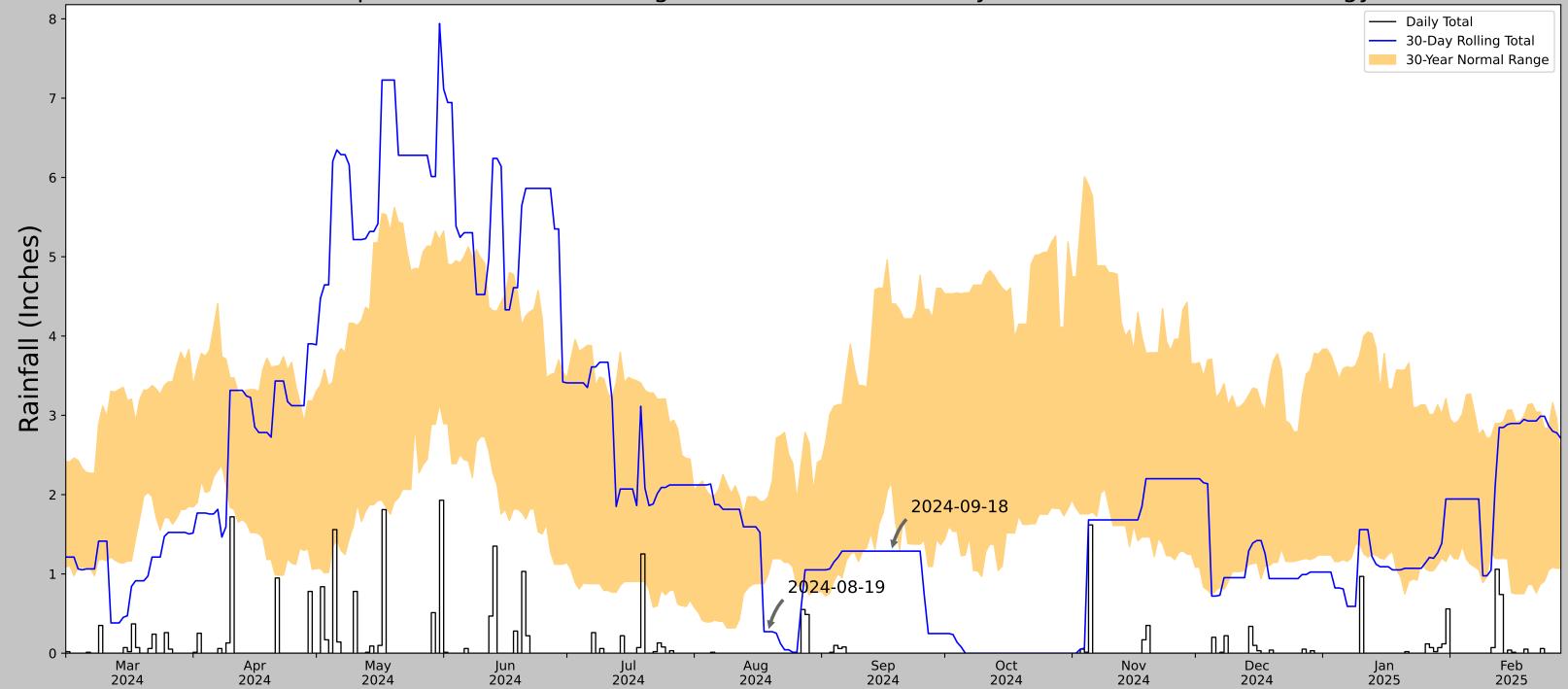


Figures and tables made by the Antecedent Precipitation Tool Version 2.0

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
TAYLOR 1NW	30.5844, -97.4156	570.866	7.528	29.488	3.61	8793	90
TAYLOR 1.2 WNW	30.5777, -97.4297	598.097	0.958	27.231	0.457	3	0
TAYLOR	30.57, -97.4092	564.961	1.065	5.905	0.486	2546	0
GRANGER	30.715, -97.4483	571.85	9.231	0.984	4.163	11	0

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



Coordinates	30.6729301, -97.5361142
Observation Date	2024-10-18
Elevation (ft)	666.923
Drought Index (PDSI)	Mild drought
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
2024-10-18	1.516142	3.973228	0.0	Dry	1	3	3
2024-09-18	2.154724	4.403937	1.287402	Dry	1	2	2
2024-08-19	0.988189	1.972441	0.271654	Dry	1	1	1
Result							Drier than Normal - 6



Figures and tables made by the Antecedent Precipitation Tool Version 2.0

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
TAYLOR 1NW	30.5844, -97.4156	570.866	9.421	96.057	5.144	8793	90
TAYLOR 1.2 WNW	30.5777, -97.4297	598.097	0.958	27.231	0.457	3	0
TAYLOR	30.57, -97.4092	564.961	1.065	5.905	0.486	2546	0
GRANGER	30.715, -97.4483	571.85	9.231	0.984	4.163	11	0

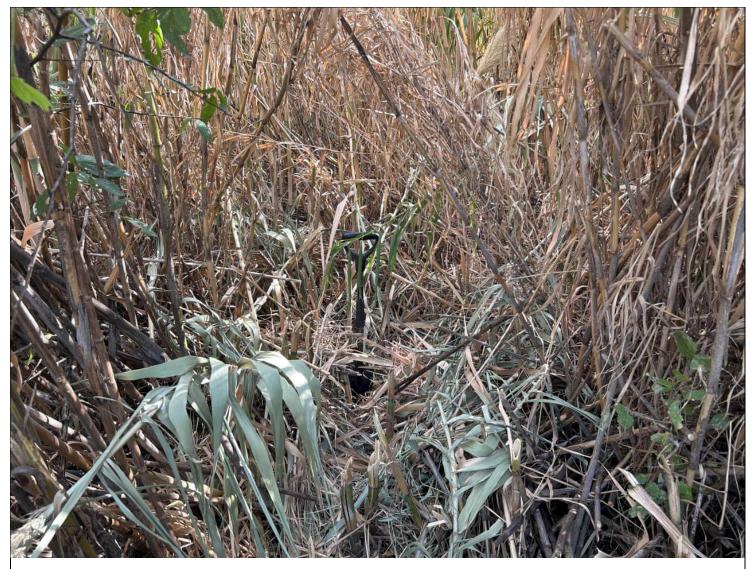
Appendix C: Wetland Data Forms



Project/Site: E WilCo Hwy Seg 6	City/County: Williamson County Sampling Date: 2024-10-1						
Applicant/Owner: Williamson County				State: Texas	Sampling Point: DP-0	1	
Investigator(s): P. Van Zandt		Section, 1	Γownship, Ra	nge:			
				convex, none): None		<u>: 1</u>	
Subregion (LRR): J 86A	Lat: 30.	642777	45	Long: <u>-97.5221426</u>	Datum: W	GS 84	
Soil Map Unit Name: BrA - Branyon clay, 0 to 1 per							
Are climatic / hydrologic conditions on the site typical for t							
Are Vegetation, Soil, or Hydrology	-			"Normal Circumstances"		lo	
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site ma						es, etc.	
Hydrophytic Vegetation Present? Yes	No						
Hydric Soil Present? Yes	No 🔽		the Sampled thin a Wetlar		No		
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	WI	uiiii a vvetiai	id: Tes	No		
Remarks:							
Upland scrub-shrub vegetation cor	mmunity.						
VEGETATION – Use scientific names of pla	ints.						
45.6	Absolute	Domina	nt Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 15 ft r			? Status	Number of Dominant S	•		
1. Arundo donax			<u>FAC</u>	That Are OBL, FACW, (excluding FAC-):	or FAC 2	(A)	
2						. ()	
3				Total Number of Domir Species Across All Stra	^	(B)	
	100	= Total C	over	Percent of Dominant S	nacias		
Sapling/Shrub Stratum (Plot size: 15 ft r				That Are OBL, FACW,		(A/B)	
1. Celtis laevigata	5		FAC	Prevalence Index wor	ksheet:		
2				Total % Cover of:			
3				OBL species 0	x 1 = 0		
4 5					x 2 = 0		
	_	= Total C	over	FAC species 105		_	
Herb Stratum (Plot size: 15 ft r)				_	x 4 = 0	_	
1					x 5 = 0	_	
2				Column Totals: 105	(A) <u>315</u>	(B)	
3				Prevalence Index	z = B/A = 3.00		
4				Hydrophytic Vegetati	on Indicators:		
5 6				1 - Rapid Test for	Hydrophytic Vegetation		
7.				✓ 2 - Dominance Test			
8.				3 - Prevalence Ind			
9				4 - Morphological / data in Remark	Adaptations ¹ (Provide sups s or on a separate sheet)	oporting)	
10					phytic Vegetation ¹ (Expla		
Woody Vine Stratum (Plot size: 15 ft r)		= Total C	over		il and wetland hydrology		
1				be present, unless dist		iiiust	
2				Hydrophytic			
				Vegetation	. V N.		
% Bare Ground in Herb Stratum 100				Present? Ye	es No		
Remarks:							

SOIL Sampling Point: DP-01

	ription: (Describe	to the depth r				or confirm	n the absence of i	ndicators.)
Depth (inches)				ox Feature: %	s Type ¹	Loc ²	Texture	Remarks
0 - 18	10YR 4/2	100	Color (moist)		Турс		Silty Clay	Kemana
	10111111						only only	
				- 				
-								
-								
¹Type: C=C	oncentration, D=Dep	letion RM=Re	duced Matrix C	S=Covered	d or Coate	ed Sand G	rains ² Locatio	n: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					a cana c		Problematic Hydric Soils ³ :
Histosol			Sandy				1 cm Muck	(A9) (LRR I, J)
Histic E	oipedon (A2)		Sandy					rie Redox (A16) (LRR F, G, H)
Black Hi	` '			d Matrix (S				ace (S7) (LRR G)
	en Sulfide (A4)	- \		Mucky Mir				s Depressions (F16)
	d Layers (A5) (LRR luck (A9) (LRR F, G,		-	Gleyed Maed Matrix (I			,	l outside of MLRA 72 & 73) /ertic (F18)
	d Below Dark Surfac			Dark Surfa	,			nt Material (TF2)
	ark Surface (A12)			ed Dark Su)		ow Dark Surface (TF12)
	Mucky Mineral (S1)	(CO) (LBB C ::		Depression		40)		plain in Remarks)
·	Mucky Peat or Peat (ucky Peat or Peat (S		. —	ains Depré	•	•		ydrophytic vegetation and drology must be present,
5 6111 1010	icky i cat of i cat (o	5) (L IXIX I)	(IVIL	12 Q	75 OI LIKI	,	-	turbed or problematic.
Restrictive	Layer (if present):							·
Type:			_					
Depth (in	ches):		_				Hydric Soil Pre	sent? Yes No
Remarks:							-	
HYDROLO	GY							
Wetland Hy	drology Indicators:	<u> </u>						
Primary India	cators (minimum of o	one required; ch	neck all that app	ly)			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic In				Sparsel	y Vegetated Concave Surface (B8)
Saturation	` '		Hydrogen				_	e Patterns (B10)
Water M	, ,		Dry-Seaso				·	d Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized I			ing Roots		e tilled)
Drift Dep			,	not tilled)		1)		Burrows (C8)
_	at or Crust (B4) posits (B5)		Presence Thin Muck			+)		on Visible on Aerial Imagery (C9) rphic Position (D2)
	on Vis ble on Aerial	Imagery (B7)	Other (Ex					eutral Test (D5)
	tained Leaves (B9)		01.10. (2.1	p.a				eave Hummocks (D7) (LRR F)
Field Obser								, , , ,
Surface Wat	er Present?	'es No	Depth (in	ches):		[
Water Table			Depth (in					
Saturation P			Depth (in				land Hydrology Pr	esent? Yes No
(includes cap	oillary fringe) corded Data (stream	aguao monito	vring well aerial	nhotos nr	ovious ins	noctions)	if available:	
Describe Ne	corded Data (Stream	r gauge, monit	ning wen, aenar	priotos, pr	evious iris	pections),	ii avallable.	
Remarks:								



DP-01: View of upland scrub-shrub vegetation community. Photo taken on October 15, 2024.

Project/Site: E WilCo Hwy Seg 6	City/County: Williamson County Sampling Date: 2024-10-15						
Applicant/Owner: Williamson County				State: Texas	Sampling Point: DP-02		
				nge:			
					Slope (%): 1		
					Datum: WGS 84		
Soil Map Unit Name: BrA - Branyon clay, 0 to 1 perc				=			
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, Soil, or Hydrology	-						
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site map							
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes	10 <u>'</u>		the Sampled		./		
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	10	W	ithin a Wetlar	nd? Yes	No		
Remarks:							
Upland scrub-shrub vegetation com	munity.	_					
Spiana soras sinas vegetation con	acy	•					
VECETATION . Her exicutific names of plan	-1-						
VEGETATION – Use scientific names of plar		Damina	at lasticates	Daminana Taat was	lab aut.		
Tree Stratum (Plot size: 15 ft r	Absolute % Cover		int Indicator S? Status	Dominance Test work Number of Dominant S			
1. Arundo donax	96	V	FAC	That Are OBL, FACW,	or FAC		
2. Celtis laevigata	2		FAC	(excluding FAC-):	<u>2</u> (A)		
3. Melia azedarach	_ 2		FACU	Total Number of Domi			
4				Species Across All Stra	ata: <u>4</u> (B)		
Sapling/Shrub Stratum (Plot size: 15 ft r	100	= Total C	Cover	Percent of Dominant S			
				That Are OBL, FACW,	or FAC: <u>50.00</u> (A/B)		
1 2				Prevalence Index wo	rksheet:		
3.				Total % Cover of:			
4.				-	x 1 = <u>0</u>		
5					x = 0		
15 ft =		= Total C	Cover		x 3 = 324		
Herb Stratum (Plot size: 15 ft r) 1. Ambrosia trifida	10	~	FAC		x = 4 = 28 $x = 5 = 10$		
	_ 10			Column Totals: 117			
2. 3.							
4.				Prevalence Index			
5.				Hydrophytic Vegetati			
6.					Hydrophytic Vegetation		
7				2 - Dominance Te			
8				3 - Prevalence Ind	lex is ≤3.0° Adaptations¹ (Provide supporting		
9					ks or on a separate sheet)		
10	40			Problematic Hydro	ophytic Vegetation ¹ (Explain)		
Woody Vine Stratum (Plot size: 15 ft r	10	= Total C	Cover	¹ Indicators of hydric so	oil and wetland hydrology must		
1. Toxicodendron radicans	5	~	FACU	be present, unless dist			
2. Vitis mustangensis	2	~	UPL	Hydrophytic			
	7	= Total C	Cover	Vegetation	V		
% Bare Ground in Herb Stratum 90				Present? Ye	es No		
Remarks:							

SOIL Sampling Point: DP-02

	ription: (Describe	to the depth r				or confirm	n the absence of i	ndicators.)
Depth (inches)				ox Feature: %	s Type ¹	Loc ²	Texture	Remarks
0 - 18	10YR 4/2	100	Color (moist)		Турс		Silty Clay	Kemana
	10111111						only only	
				- 				
-								
-								
¹Type: C=C	oncentration, D=Dep	letion RM=Re	duced Matrix C	S=Covered	d or Coate	ed Sand G	rains ² Locatio	n: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					a cana c		Problematic Hydric Soils ³ :
Histosol			Sandy				1 cm Muck	(A9) (LRR I, J)
Histic E	oipedon (A2)		Sandy					rie Redox (A16) (LRR F, G, H)
Black Hi	` '			d Matrix (S				ace (S7) (LRR G)
	en Sulfide (A4)	- \		Mucky Mir				s Depressions (F16)
	d Layers (A5) (LRR luck (A9) (LRR F, G,		-	Gleyed Maed Matrix (I			,	l outside of MLRA 72 & 73) /ertic (F18)
	d Below Dark Surfac			Dark Surfa	,			nt Material (TF2)
	ark Surface (A12)			ed Dark Su)		ow Dark Surface (TF12)
	Mucky Mineral (S1)	(CO) (LBB C ::		Depression		40)		plain in Remarks)
·	Mucky Peat or Peat (ucky Peat or Peat (S		. —	ains Depré	•	•		ydrophytic vegetation and drology must be present,
5 6111 1010	icky i cat of i cat (o	5) (L IXIX I)	(IVIL	12 Q	75 OI LIKI	,	-	turbed or problematic.
Restrictive	Layer (if present):							·
Type:			_					
Depth (in	ches):		_				Hydric Soil Pre	sent? Yes No
Remarks:							-	
HYDROLO	GY							
Wetland Hy	drology Indicators:	<u> </u>						
Primary India	cators (minimum of o	one required; ch	neck all that app	ly)			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic In				Sparsel	y Vegetated Concave Surface (B8)
Saturation	` '		Hydrogen				_	e Patterns (B10)
Water M	, ,		Dry-Seaso				·	d Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized I			ing Roots		e tilled)
Drift Dep			,	not tilled)		1)		Burrows (C8)
_	at or Crust (B4) posits (B5)		Presence Thin Muck			+)		on Visible on Aerial Imagery (C9) rphic Position (D2)
	on Vis ble on Aerial	Imagery (B7)	Other (Ex					eutral Test (D5)
	tained Leaves (B9)		01.10. (2.1	p.a				eave Hummocks (D7) (LRR F)
Field Obser								, , , ,
Surface Wat	er Present?	'es No	Depth (in	ches):		[
Water Table			Depth (in					
Saturation P			Depth (in				land Hydrology Pr	esent? Yes No
(includes cap	oillary fringe) corded Data (stream	aguao monito	vring well aerial	nhotos nr	ovious ins	noctions)	if available:	
Describe Ne	corded Data (Stream	r gauge, monit	ning wen, aenar	priotos, pr	evious iris	pections),	ii avallable.	
Remarks:								



DP-02: View of upland scrub-shrub vegetation community. Photo taken on October 15, 2024.

Project/Site: E WilCo Hwy Seg 6 City/County: Williamson County						Samplin	ng Date: 202	24-10-15
Applicant/Owner: Williamson County			State: Texas Sampling Point: DP-03					-03
Investigator(s): P. Van Zandt		Section	n, Tov	vnship, Ra	nge:			
Landform (hillslope, terrace, etc.): Upland, Flat		Local	relief	(concave,	convex, none): None		Slope (%): <u>1</u>
Subregion (LRR): J 86A	Lat: 30.	6434	7974	4	Long: <u>-97.5228745</u>	6	Datum: _	WGS 84
Soil Map Unit Name: BrA - Branyon clay, 0 to 1 perc	ent slopes	;			NWI classifi	cation: N	Α	
Are climatic / hydrologic conditions on the site typical for th	is time of yea	ar? Ye	s	No _	(If no, explain in F	Remarks.))	
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are '	"Normal Circumstances"	present?	Yes	No
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	ic?	(If ne	eeded, explain any answe	ers in Ren	narks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samı	pling	g point l	ocations, transects	s, impo	rtant featu	res, etc.
Hydrophytic Vegetation Present? Yes N	10 V		ام داد	. Commind	I Area			
Hydric Soil Present? Yes N	No			e Sampled n a Wetlar		No		
Wetland Hydrology Present? Yes N	10 <u> </u>		WILLIII	ii a wellai	103		′ 	
Remarks:								
Upland herbaceous vegetation com	munity.							
VEGETATION – Use scientific names of plan	nts.							
15 ft r	Absolute			Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 15 ft r)	% Cover				Number of Dominant S			
1					That Are OBL, FACW, (excluding FAC-):	or FAC	1	(A)
2 3					Total Number of Domi	nont		_ , ,
4					Species Across All Str		3	(B)
					Percent of Dominant S	necies		
Sapling/Shrub Stratum (Plot size: 15 ft r					That Are OBL, FACW,	or FAC:	33.33	(A/B)
1					Prevalence Index wo	rksheet:		
2					Total % Cover of:		Multiply by	
3							1 = 0	
4. 5.		-			FACW species 0			
		= Tota	L Cov	 er	FAC species 20	x	3 = 60	
Herb Stratum (Plot size: 15 ft r)		Tota	. 001		FACU species 60	x	4 = 240	
1. Sorghum halepense	60			FACU	UPL species 20	x	5 = <u>100</u>	
2. Ambrosia trifida	_ 20			FAC	Column Totals: 100	(A	A) 400	(B)
3. Zea mays				UPL	Prevalence Index	x = B/A =	4.00	
4					Hydrophytic Vegetati			
5					1 - Rapid Test for	Hydrophy	rtic Vegetation	1
6					2 - Dominance Te	st is >50%	6	
7 8					3 - Prevalence Inc	lex is ≤3.0)1	
9.					4 - Morphological			
10.					data in Remark Problematic Hydro		•	,
		= Tota	I Cov	er	l 		•	,
Woody Vine Stratum (Plot size: 15 ft r)					¹ Indicators of hydric so be present, unless dist	oil and wet turbed or p	tland hydrolog problematic.	gy must
2.					Hydrophytic			
_		= Tota	l Cov	er	Vegetation		🗸	
% Bare Ground in Herb Stratum 0					Present? Ye	es	No V	_
Remarks:								

SOIL Sampling Point: DP-03

	ription: (Describe	to the depth r				or confirm	n the absence of i	ndicators.)
Depth (inches)				ox Feature: %	s Type ¹	Loc ²	Texture	Remarks
0 - 18	10YR 4/2	100	Color (moist)		Турс		Silty Clay	Kemana
	10111111						only only	
				- 				
-								
-								
¹Type: C=C	oncentration, D=Dep	letion RM=Re	duced Matrix C	S=Covered	d or Coate	ed Sand G	rains ² Locatio	n: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					a cana c		Problematic Hydric Soils ³ :
Histosol			Sandy				1 cm Muck	(A9) (LRR I, J)
Histic E	oipedon (A2)		Sandy					rie Redox (A16) (LRR F, G, H)
Black Hi	` '			d Matrix (S				ace (S7) (LRR G)
	en Sulfide (A4)	- \		Mucky Mir				s Depressions (F16)
	d Layers (A5) (LRR luck (A9) (LRR F, G,		-	Gleyed Maed Matrix (I			,	l outside of MLRA 72 & 73) /ertic (F18)
	d Below Dark Surfac			Dark Surfa	,			nt Material (TF2)
	ark Surface (A12)			ed Dark Su)		ow Dark Surface (TF12)
	Mucky Mineral (S1)	(CO) (LBB C ::		Depression		40)		plain in Remarks)
·	Mucky Peat or Peat (ucky Peat or Peat (S		. —	ains Depré	•	•		ydrophytic vegetation and drology must be present,
5 6111 1010	icky i cat of i cat (o	5) (L IXIX I)	(IVIL	12 Q	75 OI LIKI	,	-	turbed or problematic.
Restrictive	Layer (if present):							·
Type:			_					
Depth (in	ches):		_				Hydric Soil Pre	sent? Yes No
Remarks:							-	
HYDROLO	GY							
Wetland Hy	drology Indicators:	<u> </u>						
Primary India	cators (minimum of o	one required; ch	neck all that app	ly)			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic In				Sparsel	y Vegetated Concave Surface (B8)
Saturation	` '		Hydrogen				_	e Patterns (B10)
Water M	, ,		Dry-Seaso				·	d Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized I			ing Roots		e tilled)
Drift Dep			,	not tilled)		1)		Burrows (C8)
_	at or Crust (B4) posits (B5)		Presence Thin Muck			+)		on Visible on Aerial Imagery (C9) rphic Position (D2)
	on Vis ble on Aerial	Imagery (B7)	Other (Ex					eutral Test (D5)
	tained Leaves (B9)		01.10. (2.1	p.a				eave Hummocks (D7) (LRR F)
Field Obser								, , , ,
Surface Wat	er Present?	'es No	Depth (in	ches):		[
Water Table			Depth (in					
Saturation P			Depth (in				land Hydrology Pr	esent? Yes No
(includes cap	oillary fringe) corded Data (stream	aguao monito	vring well aerial	nhotos nr	ovious ins	noctions)	if available:	
Describe Ne	corded Data (Stream	r gauge, monit	ning wen, aenar	priotos, pr	evious iris	pections),	ii avallable.	
Remarks:								



DP-03: View of upland herbaceous (agricultural) vegetation community. Photo taken on October 15, 2024.

Project/Site: E WilCo Hwy Seg 6	City/County: Williamson County Sampling Date: 2024					
Applicant/Owner: Williamson County	son County State: Texas					
Investigator(s): P. Van Zandt		Section,	, Township, Ra	nge:		
		Local relief (concave, convex, none): None Slope (%):				
Subregion (LRR): J 86A	Lat: 30.	.65005	84	Long: -97.5274216	1 Datum: WGS 84	
Soil Map Unit Name: HoB - Houston Black clay, 1 to						
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation, Soil, or Hydrology	-				present? Yes No	
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						
Hydrophytic Vegetation Present? Yes	No		- 41 - 0 1 - 1	1.4		
Hydric Soil Present? Yes	No 🔽		s the Sampled vithin a Wetlar		No <u> </u>	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	•	viuiiii a vveuai	103		
Remarks:						
Upland woodland vegetation comm	unity.					
VEGETATION – Use scientific names of pla	nts.					
15 64			ant Indicator	Dominance Test worl	sheet:	
Tree Stratum (Plot size: 15 ft r			Status	Number of Dominant S	•	
1. Celtis laevigata			FAC_	That Are OBL, FACW, (excluding FAC-):	or FAC (A)	
2				Total Number of Domii		
4				Species Across All Stra		
		= Total	Cover	Percent of Dominant S	necies	
Sapling/Shrub Stratum (Plot size: 15 ft r		,	E40	That Are OBL, FACW,		
1. Celtis laevigata	20		FAC_	Prevalence Index wo	rksheet:	
2				Total % Cover of:		
3				OBL species 0	x 1 = 0	
5					x 2 = 0	
		= Total	Cover		x 3 = 240	
Herb Stratum (Plot size: 15 ft r		,	FACIL			
Sorghum halepense Ambrosia trifida			FACU		x = 50 (A) 450 (B)	
3. Xanthium orientale	<u>20</u> 10		FAC UPL	Column Totals: 130	(A) <u>450</u> (B)	
4				Prevalence Index	c = B/A = 3.46	
5.				Hydrophytic Vegetati		
6.				· ·	Hydrophytic Vegetation	
7.				<u>✓</u> 2 - Dominance Te		
8				3 - Prevalence Ind	ex is ≤3.0 Adaptations¹ (Provide supporting	
9	_			data in Remark	s or on a separate sheet)	
10	70			Problematic Hydro	phytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size: 15 ft r		= Total		¹ Indicators of hydric so be present, unless dist	il and wetland hydrology must urbed or problematic.	
1 2				Hydrophytic		
	<u> </u>			Vegetation	v	
% Bare Ground in Herb Stratum 30				Present? Ye	es No	
Remarks:						

SOIL

Sampling Point: DP-04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features		
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹	Loc ² Texture	Remarks
0 - 18	10YR 3/2	100		Silty Clay	
					·
-					
					·
-					
				 -	· -
					·
-					
					-
					
¹ Type: C=Co	oncentration, D=Der	oletion, RM=Re	duced Matrix, CS=Covered or Coated S	Sand Grains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
			Rs, unless otherwise noted.)		s for Problematic Hydric Soils ³ :
-					•
Histosol			Sandy Gleyed Matrix (S4)		Muck (A9) (LRR I, J)
-	oipedon (A2)		Sandy Redox (S5)		t Prairie Redox (A16) (LRR F, G, H)
Black Hi	stic (A3)		Stripped Matrix (S6)		Surface (S7) (LRR G)
Hydroge	n Sulfide (A4)		Loamy Mucky Mineral (F1)	High	Plains Depressions (F16)
Stratified	d Layers (A5) (LRR	F)	Loamy Gleyed Matrix (F2)	(L	RR H outside of MLRA 72 & 73)
	ıck (A9) (LRR F, G ,		Depleted Matrix (F3)	Redu	ced Vertic (F18)
	d Below Dark Surfac		Redox Dark Surface (F6)	_	Parent Material (TF2)
	ark Surface (A12)) (/ (· · ·)	Depleted Dark Surface (F7)		Shallow Dark Surface (TF12)
	` '				
-	Mucky Mineral (S1)		Redox Depressions (F8)		(Explain in Remarks)
	Mucky Peat or Peat				s of hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetlar	nd hydrology must be present,
				unles	s disturbed or problematic.
Restrictive I	Layer (if present):				
Type:					
	-		-	Unalaia Cal	H Dracout O Voc No V
Depth (inc	cnes):		_	Hydric So	il Present? Yes No
Remarks:					
HYDROLO	GV .				
	GY drology Indicators	:			
Wetland Hyd			neck all that apply)	Second	lary Indicators (minimum of two required)
Wetland Hyd	drology Indicators cators (minimum of o				
Wetland Hyd Primary Indic Surface	drology Indicators cators (minimum of o Water (A1)		Salt Crust (B11)	Su	rface Soil Cracks (B6)
Wetland Hyd Primary Indic Surface	drology Indicators cators (minimum of o		Salt Crust (B11) Aquatic Invertebrates (B13)	Su	
Wetland Hyd Primary Indic Surface	drology Indicators cators (minimum of o Water (A1) ater Table (A2)		Salt Crust (B11)	Su Sp	rface Soil Cracks (B6)
Wetland Hyd Primary Indic Surface High Wa Saturatio	drology Indicators cators (minimum of o Water (A1) ater Table (A2)		Salt Crust (B11) Aquatic Invertebrates (B13)	Su Sp Dra	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M	drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1)		Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Su Sp Dra Ox	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3)
Primary Indic Surface High Wa Saturatic Water M Sedimer	drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)		 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living 	Su Sp Dra Ox Roots (C3)	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep	drology Indicators. eators (minimum of of water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) 	Su Sp Dra Ox Roots (C3) (* Cra	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep	drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)		 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living 	Su Sp Dra Ox Roots (C3) (* Cra	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	drology Indicators. eators (minimum of of water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) 	Su Sp Dra Ox Roots (C3) (' Cra Sa	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators eators (minimum of of other (A1) where (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one required; ch	 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) 	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators eators (minimum of of Water (A1) heter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial	one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S	drology Indicators eators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) on Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial tained Leaves (B9)	one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2)
Wetland Hyderimary Indices Surface High Was Saturation Water MSedimer Drift Dep Algal Maler Inon Dep Inundation Water-S Field Observation	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations:	one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S	drology Indicators eators (minimum of of other (A1) where (A2) on (A3) larks (B1) on Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present?	one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indices Surface High Was Saturation Water MSedimer Drift Dep Algal Maler Inon Dep Inundation Water-S Field Observation	drology Indicators eators (minimum of of other (A1) where (A2) on (A3) larks (B1) on Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present?	one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S Field Observ Surface Water	drology Indicators eators (minimum of of of other (A1) ster Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present?	Imagery (B7) /es No _ /es No _	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-S Field Observ Surface Water Saturation Pri	drology Indicators eators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present?	Imagery (B7) /es No _ /es No _	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Su Sp Dra Ox Roots (C3) (' Cra Sa Ge FA Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indices Surface High Was Saturation Sedimer Drift Dep Algal Mas Iron Dep Inundation Water Sedimer Water-Serield Observation Projection Projections of the Saturation Projection Pro	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyderimary Indices Surface High Was Saturation Sedimer Drift Dep Algal Mas Iron Dep Inundation Water Sedimer Water-Serield Observation Projection Projections of the Saturation Projection Pro	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyderimary Indices Surface High Water Mater Mater Mater Drift Department of the Mater Sedimer Mater Sedimer Mater Sedimer Mater Sedimer Water Sedimer Mater Table Saturation Professional Control of the Mater Table Sediment Material Materia	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyderimary Indices Surface High Was Saturation Sedimer Drift Dep Algal Mas Iron Dep Inundation Water Sedimer Water-Serield Observation Projection Projections of the Saturation Projection Pro	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyderimary Indices Surface High Water Mater Mater Mater Drift Department of the Indicate Water-S Field Observing Surface Water Table Saturation Profincludes caped Describe Receivers	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyderimary Indices Surface High Water Mater Mater Mater Drift Department of the Mater Sedimer Mater Sedimer Mater Sedimer Mater Sedimer Water Sedimer Mater Table Saturation Professional Control of the Mater Table Sediment Material Materia	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
Wetland Hyderimary Indices Surface High Water Mater Mater Mater Drift Department of the Mater Sedimer Mater Sedimer Mater Sedimer Mater Sedimer Water Sedimer Mater Table Saturation Professional Control of the Mater Table Sediment Material Materia	drology Indicators cators (minimum of of of other (A1) atter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Vis ble on Aerial tained Leaves (B9) vations: er Present? Present?	Imagery (B7) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Su — Sp — Dra — Ox Roots (C3) (' — Cra — Sa — Ge — FA — Fro	rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (C3) where tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)



DP-04: View of upland woodland vegetation community. Photo taken on October 15, 2024.

Project/Site: E WilCo Hwy Seg 6		City/Co	ounty: N	/illiams	son County	Sampling	Date: 2024	I-10-15
Applicant/Owner: Williamson County	State: Texas						_ Sampling Point: DP-05	
					nge:			
					convex, none): None): <u>1</u>
Subregion (LRR): J 86A	Lat: 30.65080095				Long: -97.5268579	7	Datum: W	GS 84
Soil Map Unit Name: HoB - Houston Black clay, 1 to								
Are climatic / hydrologic conditions on the site typical for t								
Are Vegetation, Soil, or Hydrology	-				'Normal Circumstances"		Yes 🗸 1	No
Are Vegetation, Soil, or Hydrology					eeded, explain any answe			
SUMMARY OF FINDINGS – Attach site ma					-			es, etc.
Hydric Soil Present? Yes	No V		Is the S	-		No	V	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No		within a	wetiar	10? fes	NO		
Remarks:								
Upland herbaceous vegetation con	nmunity.							
	,							
VEGETATION – Use scientific names of pla	nte							
VEGETATION 030 30101111110 Harries of pie	Absolute	Domi	inant Inc	dicator	Dominance Test wor	kshoot:		
Tree Stratum (Plot size: 15 ft r	% Cover				Number of Dominant S			
1					That Are OBL, FACW,	•	2	(4)
2					(excluding FAC-):			_ (A)
3					Total Number of Domi		1	(D)
4					Species Across All Stra	ata:	4	_ (B)
Sapling/Shrub Stratum (Plot size: 15 ft r		= Total	l Cover		Percent of Dominant S That Are OBL, FACW,		50.00	(A/B)
1. Celtis laevigata	20	~	' FA	AC	That Are OBL, FACW,	OI FAC.	30.00	_ (A/b)
2.					Prevalence Index wo			
3					Total % Cover of:		Multiply by:	
4							1 = 0	
5					FACW species 0 FAC species 40		2 = <u>0</u> 3 = <u>120</u>	
Herb Stratum (Plot size: 15 ft r	20	= Total	l Cover					
1. Sorghum halepense	40	~	, FA	ACU			5 = 100	
2 Ambrosia trifida	20	~		AC .	Column Totals: 100		380	(B)
3. Xanthium orientale	20	~	' UI	PL				` ,
4					Prevalence Index			
5					Hydrophytic Vegetati			
6					1 - Rapid Test for 2 - Dominance Te		c vegetation	
7					3 - Prevalence Ind			
8					4 - Morphological			pportina
9					data in Remark	s or on a s	separate sheet	t)
10	00				Problematic Hydro	phytic Veg	getation ¹ (Expl	ain)
Woody Vine Stratum (Plot size: 15 ft r			l Cover		¹ Indicators of hydric so be present, unless dist			must
1 2					Hydrophytic			
					Vegetation		.,	
% Bare Ground in Herb Stratum 20		. 510			Present? Ye	es	No	
Remarks:								

SOIL Sampling Point: DP-05

Profile Desc	ription: (Describe	to the depth r	needed to docur	nent the i	ndicator o	or confirn	n the absence of	indicators.)			
Depth	Matrix		x Feature:			_					
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks			
0 - 18	10YR 3/2	100					Silty Clay				
-											
				· ——							
							·				
-											
¹Type: C=Co	ncentration, D=Dep	oletion, RM=Re	duced Matrix, CS	S=Covered	d or Coate	d Sand G	rains. ² Locat	ion: PL=Pore Lining, M=Matrix.			
	ndicators: (Applic							or Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy (Gleyed Ma	ıtrix (S4)		1 cm Mud	ck (A9) (LRR I, J)			
Histic Ep	ipedon (A2)		Sandy F	Redox (S5)		Coast Pra	airie Redox (A16) (LRR F, G, H)			
Black His	` '			d Matrix (S	•		·	face (S7) (LRR G)			
	n Sulfide (A4)			Mucky Mir	` ,			ins Depressions (F16)			
	Layers (A5) (LRR	•	-	Gleyed Ma			,	H outside of MLRA 72 & 73)			
	ck (A9) (LRR F, G, Below Dark Surfac			d Matrix (I Dark Surfa	,			l Vertic (F18) ent Material (TF2)			
	rk Surface (A12)	C (A11)			rface (F7)			allow Dark Surface (TF12)			
	ucky Mineral (S1)			Depression	, ,		-	xplain in Remarks)			
2.5 cm N	lucky Peat or Peat	(S2) (LRR G , H	l) High Pla	ains Depre	essions (F	16)	³ Indicators of	hydrophytic vegetation and			
5 cm Mu	cky Peat or Peat (S	3) (LRR F)	(ML	RA 72 & 7	73 of LRR	H)	wetland hydrology must be present,				
							unless di	sturbed or problematic.			
	ayer (if present):										
Type:			_					.,			
Depth (inc	:hes):		_				Hydric Soil Pr	resent? Yes No			
Remarks:											
HYDROLO	3Y										
	Irology Indicators:						0	Ladia da con Castalas com a filoso as accional.			
-	ators (minimum of o	one requirea; ci						Indicators (minimum of two required)			
	Water (A1)		Salt Crust		(D.40)		Surface Soil Cracks (B6)				
	ter Table (A2)		Aquatic In				Sparsely Vegetated Concave Surface (B8)				
Saturatio	• ,		Hydrogen				Drainage Patterns (B10)				
Water Ma	t Deposits (B2)		Dry-Seaso Oxidized F			na Poote		ed Rhizospheres on Living Roots (C3) ere tilled)			
	osits (B3)			not tilled)	ies on Livi	ng roots		sh Burrows (C8)			
-	t or Crust (B4)		Presence		d Iron (C4)		ation Visible on Aerial Imagery (C9)			
	osits (B5)		Thin Muck		•	,		orphic Position (D2)			
-	on Vis ble on Aerial	Imagery (B7)	Other (Exp				· 	Neutral Test (D5)			
	ained Leaves (B9)	-3-7()			,			Heave Hummocks (D7) (LRR F)			
Field Observ	ations:										
Surface Water	er Present?	res No	Depth (in	ches):		_					
Water Table			Depth (in								
Saturation Pr			Depth (in				and Hydrology F	Present? Yes No			
(includes cap	illary fringe)										
Describe Rec	corded Data (stream	n gauge, monito	oring well, aerial	photos, pr	evious ins	pections),	ıt available:				
Remarks:											



DP-05: View of upland herbaceous vegetation community. Photo taken on October 15, 2024.

Project/Site: E WilCo Hwy Seg 6	(City/Count	_{y:} Williams	on County	Sampling Date: 2024-10-18
Applicant/Owner: Williamson County	ner: Williamson County State: Texas Sam				
Investigator(s): P. Van Zandt				nge:	
Landform (hillslope, terrace, etc.): Ditch					
					Datum: WGS 84
Soil Map Unit Name: HoB - Houston Black clay, 1 to				-	
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrologys	-				present? Yes No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map	snowing	sampiir	ng point i	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes N	lo <u> </u>	le ti	he Sampled	Δτος	
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N	lo		hin a Wetlan		No 🗸
Wetland Hydrology Present? Yes N	lo				<u> </u>
Remarks:					
Sampled within a ditch. Upland herb	aceous	veget	ation co	mmunity.	
VEGETATION – Use scientific names of plan	ıts.				
15 ft w			t Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 15 ft r)	% Cover			Number of Dominant Sp	
1				That Are OBL, FACW, (excluding FAC-):	or FAC 1 (A)
2					ont .
4			- <u> </u>	Total Number of Domini Species Across All Stra	_
			ver	Percent of Dominant Sp	necies
Sapling/Shrub Stratum (Plot size: 15 ft r	4=			That Are OBL, FACW, of	
1. Arundo donax				Prevalence Index worl	ksheet:
2				Total % Cover of:	
3					x 1 = 0
4. 5.				FACW species 0	x 2 = 0
	15	= Total Co	ver		x 3 = 60
Herb Stratum (Plot size: 15 ft r)					
1. Cynodon dactylon	80		FACU		x 5 = 0
2. Sorghum halepense 3 Parthenium hysterophorus	15		FACU	Column Totals: 115	(A) <u>440</u> (B)
0	5		FAC	Prevalence Index	= B/A = 3.82
4				Hydrophytic Vegetation	on Indicators:
5				1 - Rapid Test for H	lydrophytic Vegetation
7				2 - Dominance Tes	
8.				3 - Prevalence Inde	
9.				4 - Morphological A	Adaptations ¹ (Provide supporting s or on a separate sheet)
10					phytic Vegetation ¹ (Explain)
15 ft r	100	= Total Co	over		
Woody Vine Stratum (Plot size: 15 ft r)				be present, unless distu	I and wetland hydrology must urbed or problematic.
1				Hydrophytic	
2				Vegetation	
% Bare Ground in Herb Stratum 0		rotal oc		Present? Yes	s No
Remarks:					

SOIL

Sampling Point: <u>DP-06</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			x Features							
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type ¹	Loc ²	<u>Texture</u>	Remarks			
0 - 16	10YR 4/2	100					Silty Clay				
-											
	-										
	-							_			
1							2.				
	oncentration, D=De					d Sand G		: PL=Pore Lining, M=Matrix.			
-	ndicators: (Appli	cable to all L			•			Problematic Hydric Soils ³ :			
Histosol	` '			Eleyed Matr	ix (S4)			(A9) (LRR I, J)			
Black Hi	oipedon (A2)		-	Redox (S5) I Matrix (S6	`			e Redox (A16) (LRR F, G, H) e (S7) (LRR G)			
	n Sulfide (A4)			Mucky Mine				Depressions (F16)			
	Layers (A5) (LRR	F)		Gleyed Mati				outside of MLRA 72 & 73)			
· 	ick (A9) (LRR F, G ,	•		d Matrix (F3			Reduced Ve	ŕ			
	Below Dark Surfa			Dark Surface				Material (TF2)			
	ark Surface (A12)		·	d Dark Surf	. ,			w Dark Surface (TF12)			
Sandy M	lucky Mineral (S1)			Depressions				ain in Remarks)			
	lucky Peat or Peat			ins Depres				drophytic vegetation and			
5 cm Mu	cky Peat or Peat (S	63) (LRR F)	(ML	RA 72 & 73	of LRR	H)	•	rology must be present,			
							unless distu	rbed or problematic.			
	_ayer (if present):										
Type:											
Depth (inc	ches):						Hydric Soil Pres	ent? Yes No			
Remarks:											
HYDROLO	GY										
Wetland Hyd	drology Indicators	:									
Primary Indic	ators (minimum of	one required;	check all that apply	y)			Secondary Inc	dicators (minimum of two required)			
Surface	Water (A1)		Salt Crust	(B11)			✓ Surface S	Soil Cracks (B6)			
High Wa	ter Table (A2)		Aquatic Inv	ertebrates/	(B13)		Sparsely Vegetated Concave Surface (B8)				
Saturatio	on (A3)		Hydrogen	Sulfide Odd	or (C1)		✓ Drainage Patterns (B10)				
Water M	arks (B1)		Dry-Seaso	n Water Ta	ble (C2)		Oxidized	Rhizospheres on Living Roots (C3)			
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphere	s on Livi	ing Roots	(C3) (where	tilled)			
Drift Dep	oosits (B3)		(where r	not tilled)			Crayfish	Burrows (C8)			
Algal Ma	it or Crust (B4)		Presence	of Reduced	Iron (C4	·)	Saturatio	n Visible on Aerial Imagery (C9)			
Iron Dep	osits (B5)		Thin Muck	Surface (C	7)		✓ Geomorp	hic Position (D2)			
Inundation	on Vis ble on Aerial	Imagery (B7)	Other (Exp	lain in Rem	narks)		FAC-Neu	itral Test (D5)			
Water-St	tained Leaves (B9)						Frost-Hea	ave Hummocks (D7) (LRR F)			
Field Observ	vations:										
Surface Water	er Present?	Yes N	Depth (inc	ches):		_					
Water Table	Present?	Yes N	Depth (inc	ches):							
Saturation Pr			Depth (inc				and Hydrology Pre	sent? Yes V No No			
(includes cap	oillary fringe)										
Describe Red	corded Data (strear	n gauge, mon	itoring well, aerial p	photos, prev	vious ins	pections),	if available:				
Remarks:											



DP-06: View of upland herbaceous (agricultural) vegetation community. Photo taken on October 18, 2024.

Project/Site: E WilCo Hwy Seg 6	Co Hwy Seg 6 City/County: Williamson County Sampling Date: 2024					ate: 2024	-10-18		
Applicant/Owner: Williamson County State: T						Samp	ling Po	int: DP-0	7
Investigator(s): P. Van Zandt		Section	n, Tov	wnship, Ra	nge:				
Landform (hillslope, terrace, etc.): Upland, Flat		Local	relief	(concave,	convex, none): None)		Slope (%)	<u>: 1</u>
Subregion (LRR): J 86A	Lat: 30.	.6700	000	1	_ Long: <u>-97.53625</u>	85		Datum: W	GS 84
Soil Map Unit Name: HoB - Houston Black clay, 1 to	3 percent	slope	S		NWI clas	sification:	N/A		
Are climatic / hydrologic conditions on the site typical for the	is time of year	ar? Ye	s	No _	(If no, explain	in Remark	s.)		
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are '	"Normal Circumstance	s" present	? Yes	. <u> </u>	lo
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	ic?	(If ne	eeded, explain any an	swers in R	emarks	5.)	
SUMMARY OF FINDINGS - Attach site map	showing	samı	pling	g point l	ocations, transe	cts, imp	ortan	t feature	es, etc.
Hydrophytic Vegetation Present? Yes I	No V		la 4h	- Camanda d	1.4				
Hydric Soil Present? Yes 1	No			e Sampled in a Wetlar		ı	No ⁽	/	
Wetland Hydrology Present? Yes 1	No		** 16111	ii a wellai	103_	'			
Remarks:									
Upland herbaceous vegetation com	munity.								
VEGETATION – Use scientific names of plan		Dami		la di satan	Dominon of Took				
Tree Stratum (Plot size: 15 ft r	Absolute % Cover			Indicator Status	Number of Dominar				
1					That Are OBL, FAC)		
2					(excluding FAC-):		0		(A)
3					Total Number of Do		2		(5)
4					Species Across All	Strata:	<u>Z</u>		(B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Tota	I Cov	er	Percent of Dominar That Are OBL, FAC		. 0.0	00	(A/R)
1									(700)
2					Prevalence Index			ultiply by	
3					Total % Cover OBL species 0			ultiply by: 0	
4					FACW species 0				
5					FAC species 0		-	0	
Herb Stratum (Plot size: 15 ft r		= Tota	I Cov	er	FACU species 60				
1. Cynodon dactylon	60		·	FACU	UPL species 40		x 5 =		_
2. Bothriochloa ischaemum	40			UPL	Column Totals: 10	0	(A)	440	(B)
3					Prevalence In	dex = B/A	= 4.4	10	
4					Hydrophytic Vege				_
5					1 - Rapid Test				
6					2 - Dominance	Test is >5	0%		
7					3 - Prevalence	Index is ≤	3.0 ¹		
8 9					4 - Morphologic				
10.		-			data in Rem Problematic Hy				
	400	= Tota	l Cov	er	-		•	, ,	,
Woody Vine Stratum (Plot size: 15 ft r)					¹ Indicators of hydric be present, unless	; soil and w disturbed c	vetland or probl	hydrology ematic.	must
2.					Hydrophytic				
_		= Tota	l Cov	er	Vegetation	Vaa			
% Bare Ground in Herb Stratum 0					Present?	Yes	N	° <u> </u>	
Remarks:									

SOIL

Sampling Point: DP-07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Features	6						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0 - 16	10YR 4/2	100					Silty Clay				
		· — — -						-			
				· ——							
		. -									
-											
	-	· 									
											
	oncentration, D=Dep					d Sand G		ion: PL=Pore Lining, M=Matrix.			
-	Indicators: (Applic	able to all L			•			r Problematic Hydric Soils ³ :			
Histosol	` '		-	Sleyed Ma				ck (A9) (LRR I, J)			
	pipedon (A2)		-	Redox (S5)				airie Redox (A16) (LRR F, G, H)			
	stic (A3) n Sulfide (A4)			l Matrix (S Mucky Min				face (S7) (LRR G) ins Depressions (F16)			
	d Layers (A5) (LRR I	=)		Gleyed Ma			_	H outside of MLRA 72 & 73)			
	ick (A9) (LRR F, G , I		-	d Matrix (F			,	Vertic (F18)			
	d Below Dark Surfac			Dark Surfa				ent Material (TF2)			
	ark Surface (A12)	, ,	Deplete	d Dark Su	rface (F7)		Very Sha	illow Dark Surface (TF12)			
Sandy M	lucky Mineral (S1)		Redox [Depression	ns (F8)			xplain in Remarks)			
	Mucky Peat or Peat (ains Depre				hydrophytic vegetation and			
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	(ML	RA 72 & 7	3 of LRR	H)	wetland hydrology must be present,				
Described to 1							unless di	sturbed or problematic.			
	_ayer (if present):										
Type:											
Depth (inc	ches):						Hydric Soil Pr	resent? Yes No			
Remarks:											
HYDROLO	CV										
	drology Indicators:										
•	cators (minimum of c	ne required;	check all that appl	y)			-	Indicators (minimum of two required)			
Surface	, ,		Salt Crust				Surface Soil Cracks (B6)				
_	iter Table (A2)		Aquatic In					ely Vegetated Concave Surface (B8)			
Saturation	on (A3)		Hydrogen	Sulfide Oc	lor (C1)		Draina	ge Patterns (B10)			
Water M	arks (B1)		Dry-Seaso					ed Rhizospheres on Living Roots (C3)			
	nt Deposits (B2)		Oxidized F		es on Liv	ng Roots	. ,	ere tilled)			
	oosits (B3)		•	not tilled)				sh Burrows (C8)			
_	at or Crust (B4)		Presence		•	·)		tion Visible on Aerial Imagery (C9)			
	oosits (B5)		Thin Muck					orphic Position (D2)			
	on Vis ble on Aerial I	magery (B7)	Other (Exp	lain in Re	marks)			leutral Test (D5)			
	tained Leaves (B9)						Frost-l	Heave Hummocks (D7) (LRR F)			
Field Observ											
Surface Water			o Depth (in								
Water Table			o Depth (in					,			
Saturation Pr		es N	o Depth (in	ches):		Wet	land Hydrology F	Present? Yes No			
(includes cap Describe Red	oillary fringe) corded Data (stream	dande mon	itoring well aerial	ohotos pre	evious ine	nections)	if available:				
200011001100	oo.aca Data (diicaiii	gaago, mon		o.o, pre		, 0000110),	available.				
Remarks:											
nemarks.											



DP-07: View of upland herbaceous (agricultural) vegetation community. Photo taken on October 18, 2024.

Project/Site: E WilCo Hwy Seg 6 City/County: Williamson County Sampling Date: 2024						_{ite:} 2024	-10-18		
Applicant/Owner: Williamson County					State: Texas	Samp	ling Po	int: DP-0	8
Investigator(s): P. Van Zandt		Section	n, To	wnship, Ra	inge:				
Landform (hillslope, terrace, etc.): Upland, Flat		Local	relief	(concave,	convex, none): None	e		Slope (%)	<u> 1</u>
Subregion (LRR): J 86A	Lat: 30.	.6968	93		_ Long: <u>-97.54135</u>	6		Datum: Wo	GS 84
Soil Map Unit Name: EyD - Eddy very gravelly clay	loam, 3 to	8 per	cent	slopes	NWI clas	sification:	N/A		
Are climatic / hydrologic conditions on the site typical for the	nis time of yea	ar? Ye	es	✓ No _	(If no, explain	in Remark	s.)		
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are '	"Normal Circumstance	es" present	? Yes	N	lo
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic?	(If ne	eeded, explain any an	swers in R	emarks	5.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point l	ocations, transe	cts, imp	ortan	t feature	s, etc.
Hydrophytic Vegetation Present? Yes	No 🗸		lo th	o Compled	I Arao				
Hydric Soil Present? Yes	No			e Sampled in a Wetlar		N	No (/	
Wetland Hydrology Present? Yes	No		*******	III a Wellai					
Remarks:	•-								
Upland herbaceous vegetation com	ımunity.								
VECETATION . He ecientific names of pla	mto.								
VEGETATION – Use scientific names of pla	Absolute	Domi	inant	Indicator	Dominance Test w	vorksheet:			
Tree Stratum (Plot size: 15 ft r	% Cover				Number of Domina				
1					That Are OBL, FAC		0		(4)
2					(excluding FAC-):				(A)
3					Total Number of Do Species Across All		2		(B)
4									. (D)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10ta	ii Cov	vei	Percent of Dominar That Are OBL, FAC		: <u>0.0</u>	00	(A/B)
1					Prevalence Index	worksheet	+-		
2					Total % Cover			ultiply by:	
3									
4. 5.					FACW species 0		x 2 =	0	_
0		= Tota	ıl Cov	/er	FAC species 0			0	_
Herb Stratum (Plot size: 15 ft r					FACU species 60				_
1. Cynodon dactylon	_ 60			FACU	UPL species 40		x 5 =		_
2. Bothriochloa ischaemum				UPL	Column Totals: 10	0	(A)	440	(B)
3					Prevalence In	idex = B/A	= 4.4	10	
4					Hydrophytic Vege	tation Indi	cators	:	
5 6					1 - Rapid Test	for Hydrop	hytic Ve	egetation	
7.					2 - Dominance	Test is >50	0%		
8.					3 - Prevalence				
9.					4 - Morphologion				
10					Problematic Hy			•	
15 54 %	100	= Tota	l Cov	/er	-		•		,
Woody Vine Stratum (Plot size: 15 ft r) 1.					¹ Indicators of hydric be present, unless	soil and w disturbed c	etland or probl	hydrology ematic.	must
2.					Hydrophytic				
		= Tota	ıl Cov	ver	Vegetation			4	
% Bare Ground in Herb Stratum 0					Present?	Yes	N	o <u> </u>	
Remarks:									

SOIL Sampling Point: DP-08

Profile Desc	ription: (Describ	e to the depth n	eeded to docu	ment the i	indicator	or confirn	n the absence of in	dicators.)	
Depth	Matrix		Redo	x Feature					
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S
0 - 16	10YR 4/2	100					Silty Clay		
-									
				-	. ——				
-									
-									
				-					
				- -	. ———				
				- ·					
	oncentration, D=De					d Sand G		: PL=Pore Lining,	
Hydric Soil I	Indicators: (Appl	cable to all LRF	Rs, unless othe	rwise not	ed.)		Indicators for P	roblematic Hydri	ic Soils³:
Histosol	(A1)		Sandy	-			1 cm Muck ((A9) (LRR I, J)	
	oipedon (A2)			Redox (S5				e Redox (A16) (Li	RR F, G, H)
Black Hi	` '			d Matrix (S				e (S7) (LRR G)	
	n Sulfide (A4)			Mucky Mir				Depressions (F16	•
	Layers (A5) (LRR		-	Gleyed Ma			•	outside of MLRA	72 & 73)
	ick (A9) (LRR F, G d Below Dark Surfa			ed Matrix (I Dark Surfa	,		Reduced Ve	Material (TF2)	
-	ark Surface (A12)	ice (ATT)			ırface (F7)			w Dark Surface (T	F12)
I —	lucky Mineral (S1)			Depressio				ain in Remarks)	
	/lucky Peat or Peat				essions (F	16)		drophytic vegetation	on and
	icky Peat or Peat (73 of LRR		•	rology must be pre	
	,						-	rbed or problemat	
Restrictive I	_ayer (if present):								
Type:			_						
Depth (inc	ches):		_				Hydric Soil Pres	ent? Yes	No
Remarks:									
HYDROLO	GY								
Wetland Hyd	drology Indicators	s:							
Primary Indic	cators (minimum of	one required; ch	eck all that app	v)			Secondary Inc	dicators (minimum	of two required)
Surface	Water (A1)	•	Salt Crust	(B11)			<u> </u>	Soil Cracks (B6)	•
	iter Table (A2)		Aquatic In		s (B13)			Vegetated Conca	ve Surface (B8)
Saturation			Hydrogen		` '			Patterns (B10)	(= 0)
Water M			Dry-Seaso					, ,	Living Roots (C3)
	nt Deposits (B2)		Oxidized I						
Drift Dep				not tilled)			Crayfish I	,	
	at or Crust (B4)		Presence	,		1)		n Visible on Aerial	Imagery (C9)
Iron Dep			Thin Mucl		`	.,		hic Position (D2)	age.y (00)
-	on Vis ble on Aeria	I Imagery (B7)	Other (Ex				FAC-Neu		
	tained Leaves (B9)		Out (Ex	piani iii i te	marko)			ave Hummocks (D	7) (LRR F)
Field Observ		'						(2	., (=)
Surface Water		Yes No _	✓ Denth (in	chee).					
		Yes No _							
Water Table							land the deater	40 V-	N
Saturation Procession (includes cap		Yes No _	Depth (in	cnes):		_ weti	land Hydrology Pre	sent? Yes	No
Describe Rec	corded Data (strea	m gauge, monito	ring well, aerial	photos, pr	evious ins	pections),	if available:		
	•	-				,			
Remarks:									



DP-08: View of upland herbaceous (agricultural) vegetation community. Photo taken on October 18, 2024.

Appendix D: Representative Photographs





Photograph 1 (PP01): View of study area from the southern project limits approximately 0.2-mile north of SH 29, facing north.



Photograph 2 (PP02): Representative view of agricultural land use near in the southern portion of the project area, facing north.



Photograph 3 (PP03): View of ephemeral stream (W-1A), facing upstream and east.



Photograph 4 (PP04): View of erosional feature into W-1A, facing northwest.



Photograph 5 (PP05): View of ephemeral stream (W-1A), facing upstream and east.



Photograph 6 (PP06): View of ephemeral stream (W-1A), facing upstream and northeast.



Photograph 7 (PP07): View of ephemeral stream (W-1A), facing upstream and north.



Photograph 8 (PP08): View of erosional wash between agricultural fields, facing upstream and west.



Photograph 9 (PP09): View of ephemeral stream (W-1C) from CR 127, facing downstream and southeast.



Photograph 10 (PP10): View of drainage ditch on upstream side of CR 127 and W-1C, facing upstream and north.



Photograph 11 (PP11): View of open water pond (W-2), facing northeast.



Photograph 12 (PP12): View of intermittent stream (W-3), facing downstream and east.



Photograph 13 (PP13): View of vegetated swale (W-4), facing downstream and southwest.