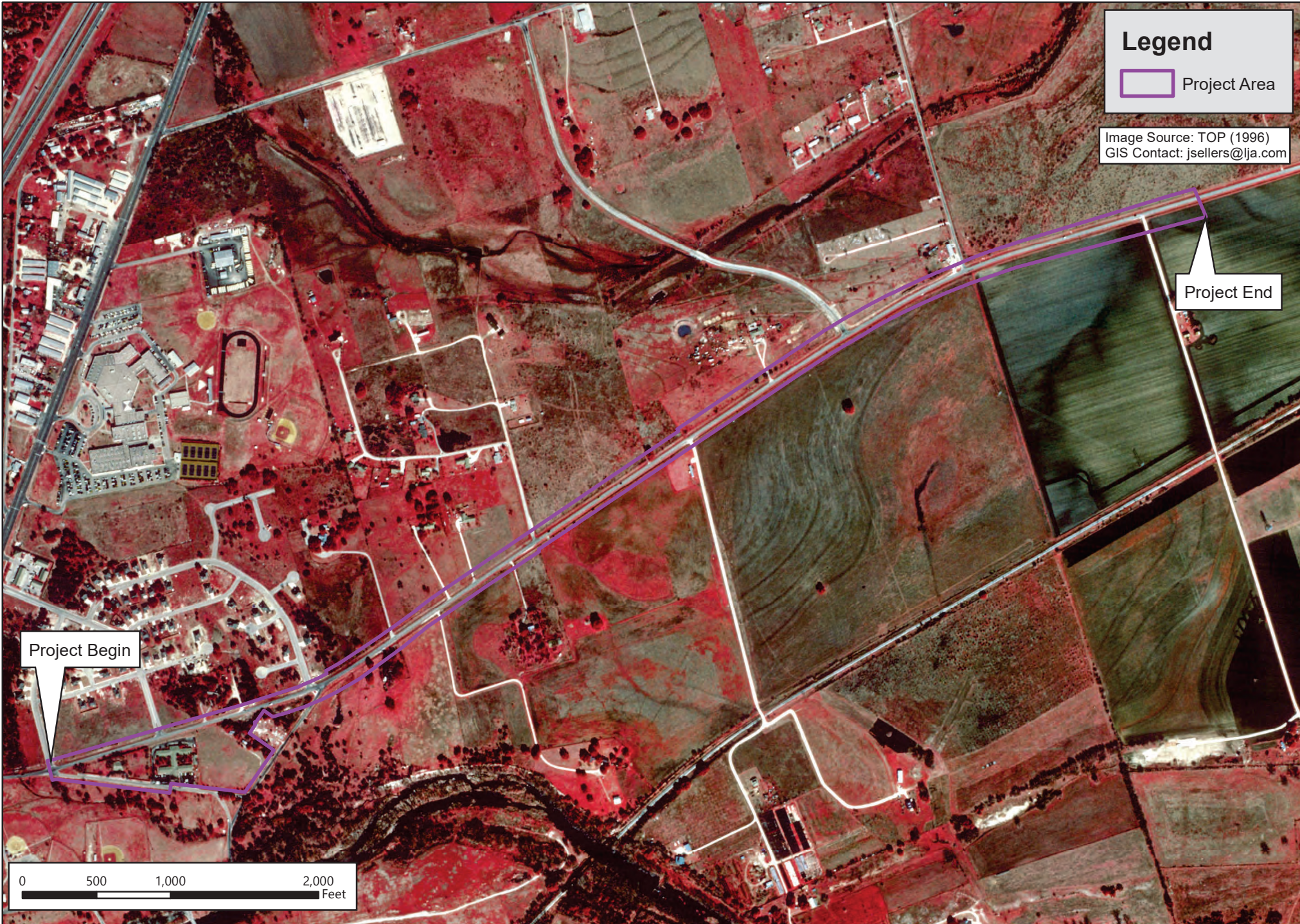




FIGURE 7: 2015 STRATMAP 1-FOOT LIDAR CONTOURS




Legend
 Project Area

Image Source: TOP (1996)
 GIS Contact: jsellers@lja.com

Project End

Project Begin

0 500 1,000 2,000
 Feet

FIGURE 8: 1996 TOP INFRARED AERIAL



CSJ: 2690-01-043
 For: The City of Georgetown
 Location: FM 971 from Gann St to SH 130
 Williamson County, Texas

REVISIONS



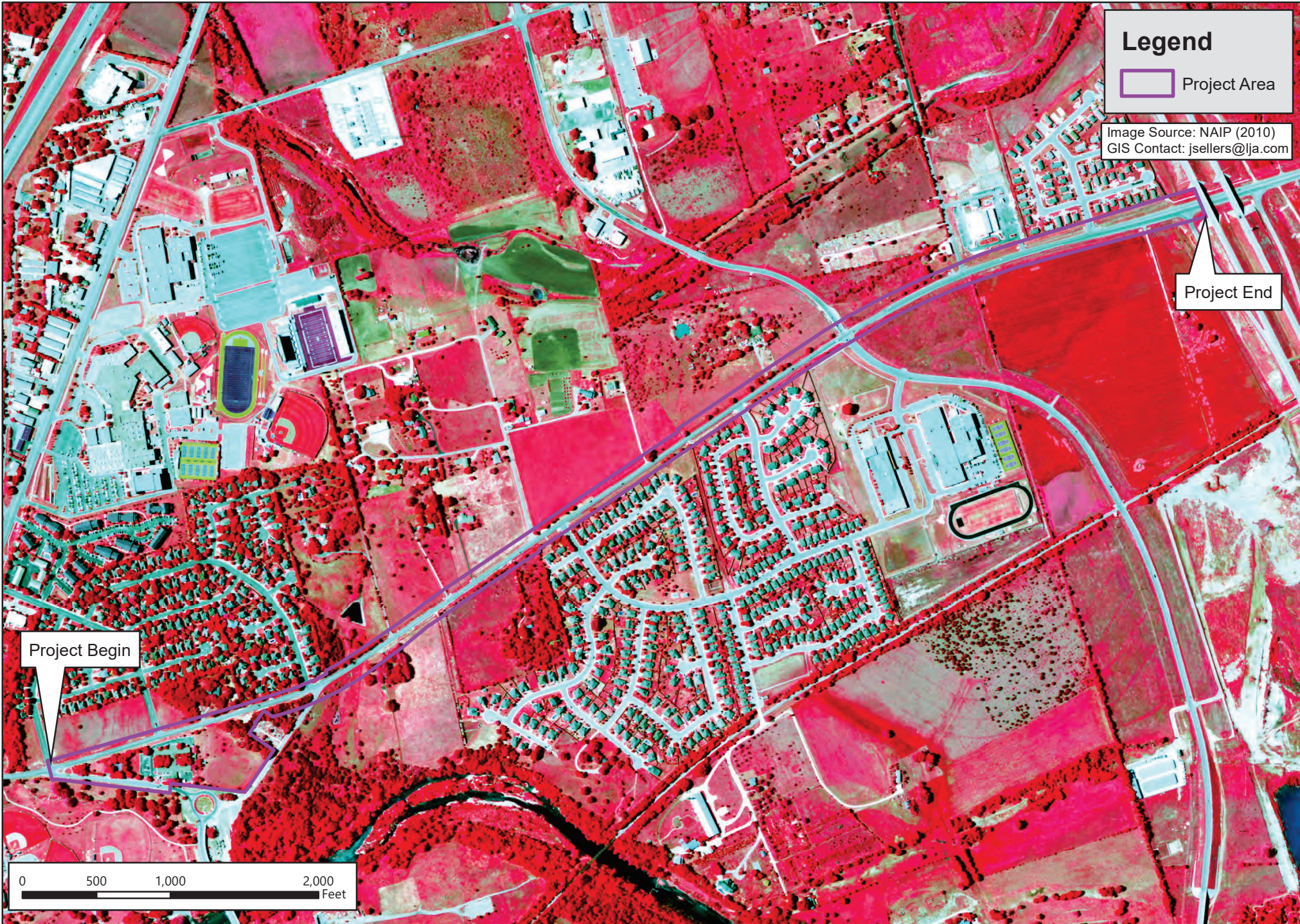


FIGURE 9: 2010 NAIP INFRARED AERIAL




Legend
 Project Area

Image Source: TOP (2015)
 GIS Contact: jsellers@lja.com

Project End

Project Begin

0 500 1,000 2,000
 Feet

FIGURE 10: 2015 TOP INFRARED AERIAL



CSJ: 2690-01-043
 For: The City of Georgetown
 Location: FM 971 from Gann St to SH 130
 Williamson County, Texas

REVISIONS



Legend

- Project Area
- Potential Jurisdictional Stream
- Potential Jurisdictional Wetland
- Soil Core

Image Source: Nearmap (4/30/23)
GIS Contact: jsellers@lja.com



FIGURE 11: WETLAND DELINEATION MAP



CSJ: 2690-01-043
For: The City of Georgetown
Location: FM 971 from Gann St to SH 130
Williamson County, Texas

REVISIONS



Attachment 2 - Wetland Determination Data Forms and APT Output

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/13/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 1
 Investigator(s): Jason Sellers, Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.656286 Long: -97.662932 Datum: NAD 83
 Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent slopes (Ead) NWI classification: n/a
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	

Remarks:
 This location does not meet the criteria to be considered a wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)																												
1. <u>Celtis laevigata</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>																													
2. <u>Ulmus crassifolia</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																													
3. _____																																
4. _____																																
5. _____	<u>50</u> = Total Cover																															
Sapling/Shrub Stratum (Plot size: <u>15-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td></td> <td>Multiply by:</td> <td></td> </tr> <tr> <td>OBL species</td> <td align="center"><u>0</u></td> <td>x 1 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td align="center"><u>0</u></td> <td>x 2 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td align="center"><u>50</u></td> <td>x 3 =</td> <td align="center"><u>150</u></td> </tr> <tr> <td>FACU species</td> <td align="center"><u>20</u></td> <td>x 4 =</td> <td align="center"><u>80</u></td> </tr> <tr> <td>UPL species</td> <td align="center"><u>20</u></td> <td>x 5 =</td> <td align="center"><u>100</u></td> </tr> <tr> <td>Column Totals:</td> <td align="center"><u>90</u> (A)</td> <td></td> <td align="center"><u>330</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.67</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>50</u>	x 3 =	<u>150</u>	FACU species	<u>20</u>	x 4 =	<u>80</u>	UPL species	<u>20</u>	x 5 =	<u>100</u>	Column Totals:	<u>90</u> (A)		<u>330</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>0</u>	x 2 =	<u>0</u>																													
FAC species	<u>50</u>	x 3 =	<u>150</u>																													
FACU species	<u>20</u>	x 4 =	<u>80</u>																													
UPL species	<u>20</u>	x 5 =	<u>100</u>																													
Column Totals:	<u>90</u> (A)		<u>330</u> (B)																													
1. <u>Ligustrum sinense</u>	<u>20</u>	<u>Yes</u>	<u>UPL</u>																													
2. _____																																
3. _____																																
4. _____																																
5. _____	<u>20</u> = Total Cover																															
Herb Stratum (Plot size: <u>5-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																												
1. <u>Toxicodendron radicans</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																													
2. <u>Torilis arvensis</u>	<u>15</u>	<u>Yes</u>	<u>NI</u>																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
7. _____																																
8. _____																																
9. _____																																
10. _____	<u>35</u> = Total Cover																															
Woody Vine Stratum (Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																												
1. _____																																
2. _____																																
_____ = Total Cover																																

Remarks:
 Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 65%.

SOIL

Sampling Point: Up 1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	7.5YR 3/1	100					Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 1 cm Muck (A9) (LRR I, J)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR F,G, H)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) (LRR G)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> High Plains Depressions (F16)
<input type="checkbox"/> Stratified Layers (A5) (LRR F)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> (LRR H outside MLRA 72 & 73)
<input type="checkbox"/> 1 cm Muck (A9) (LRR F, G, H)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2)(LRR G,H)	<input type="checkbox"/> High Plains Depressions (F16)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR F)	<input type="checkbox"/> (MLRA 72 & 73 of LRR H)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
Hydric soil indicators were not observed at this location.

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> (where tilled)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Forst-Heave Hummocks (D7) (LRR F)
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> (where not tilled)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present?	Yes _____	No _____	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
Water Table Present?	Yes _____	No _____	Depth (inches): _____	
Saturation Present?	Yes _____	No _____	Depth (inches): _____	
(includes capillary fringe)				

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Hydrologic indicators were not observed at this location.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/13/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 2
 Investigator(s): Jason Sellers, Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Upland Slope Local relief (concave, convex, none): concave Slope (%): 3
 Subregion: LRR J, MLRA 86A Lat: 30.656232 Long: -97.662682 Datum: NAD 83
 Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent slopes (Ead) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: This location does not meet the criteria to be considered a wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																													
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0.0% </u> (A/B)																												
2.	_____	_____	_____	_____																													
3.	_____	_____	_____	_____																													
4.	_____	_____	_____	_____																													
5.	_____	_____	_____	_____																													
				= Total Cover																													
Sapling/Shrub Stratum	(Plot size: <u>15-ft radius</u>)				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td><td align="center"><u> 0 </u></td> <td>x 1 =</td><td align="center"><u> 0 </u></td> </tr> <tr> <td>FACW species</td><td align="center"><u> 0 </u></td> <td>x 2 =</td><td align="center"><u> 0 </u></td> </tr> <tr> <td>FAC species</td><td align="center"><u> 0 </u></td> <td>x 3 =</td><td align="center"><u> 0 </u></td> </tr> <tr> <td>FACU species</td><td align="center"><u> 80 </u></td> <td>x 4 =</td><td align="center"><u> 320 </u></td> </tr> <tr> <td>UPL species</td><td align="center"><u> 20 </u></td> <td>x 5 =</td><td align="center"><u> 100 </u></td> </tr> <tr> <td>Column Totals:</td><td align="center"><u> 100 </u> (A)</td> <td></td><td align="center"><u> 420 </u> (B)</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u> 0 </u>	x 1 =	<u> 0 </u>	FACW species	<u> 0 </u>	x 2 =	<u> 0 </u>	FAC species	<u> 0 </u>	x 3 =	<u> 0 </u>	FACU species	<u> 80 </u>	x 4 =	<u> 320 </u>	UPL species	<u> 20 </u>	x 5 =	<u> 100 </u>	Column Totals:	<u> 100 </u> (A)		<u> 420 </u> (B)
Total % Cover of:		Multiply by:																															
OBL species	<u> 0 </u>	x 1 =	<u> 0 </u>																														
FACW species	<u> 0 </u>	x 2 =	<u> 0 </u>																														
FAC species	<u> 0 </u>	x 3 =	<u> 0 </u>																														
FACU species	<u> 80 </u>	x 4 =	<u> 320 </u>																														
UPL species	<u> 20 </u>	x 5 =	<u> 100 </u>																														
Column Totals:	<u> 100 </u> (A)		<u> 420 </u> (B)																														
1.	_____	_____	_____	_____																													
2.	_____	_____	_____	_____																													
3.	_____	_____	_____	_____																													
4.	_____	_____	_____	_____																													
5.	_____	_____	_____	_____																													
				= Total Cover																													
Herb Stratum	(Plot size: <u>5-ft radius</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																												
1.	<u>Avena sativa</u>	80	Yes	FACU																													
2.	<u>Monarda punctata</u>	20	Yes	UPL																													
3.	_____	_____	_____	_____																													
4.	_____	_____	_____	_____																													
5.	_____	_____	_____	_____																													
6.	_____	_____	_____	_____																													
7.	_____	_____	_____	_____																													
8.	_____	_____	_____	_____																													
9.	_____	_____	_____	_____																													
10.	_____	_____	_____	_____																													
				100 = Total Cover																													
Woody Vine Stratum	(Plot size: <u>30-ft radius</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																												
1.	_____	_____	_____	_____																													
2.	_____	_____	_____	_____																													
				= Total Cover																													

Remarks:
 Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 0%.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/13/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 3
 Investigator(s): Jason Sellers, Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.656898 Long: -97.661352 Datum: NAD 83
 Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent slopes (Ead) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: This location does not meet the criteria to be considered a wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																													
1. <u>Ulmus americana</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																												
2. <u>Celtis laevigata</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																													
3. _____																																
4. _____																																
5. _____																																
<u>45</u> = Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td align="center"><u>0</u></td> <td>x 1 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td align="center"><u>0</u></td> <td>x 2 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td align="center"><u>85</u></td> <td>x 3 =</td> <td align="center"><u>255</u></td> </tr> <tr> <td>FACU species</td> <td align="center"><u>30</u></td> <td>x 4 =</td> <td align="center"><u>120</u></td> </tr> <tr> <td>UPL species</td> <td align="center"><u>0</u></td> <td>x 5 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td align="center"><u>115</u> (A)</td> <td></td> <td align="center"><u>375</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.26</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>85</u>	x 3 =	<u>255</u>	FACU species	<u>30</u>	x 4 =	<u>120</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>115</u> (A)		<u>375</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>0</u>	x 2 =	<u>0</u>																													
FAC species	<u>85</u>	x 3 =	<u>255</u>																													
FACU species	<u>30</u>	x 4 =	<u>120</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>115</u> (A)		<u>375</u> (B)																													
Sapling/Shrub Stratum (Plot size: <u>15-ft radius</u>)																																
1. <u>Celtis laevigata</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
<u>10</u> = Total Cover																																
Herb Stratum (Plot size: <u>5-ft radius</u>)																																
1. <u>Elymus canadensis</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																												
2. <u>Ambrosia trifida</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
7. _____																																
8. _____																																
9. _____																																
10. _____																																
<u>60</u> = Total Cover																																
Woody Vine Stratum (Plot size: <u>30-ft radius</u>)																																
1. _____																																
2. _____																																
_____ = Total Cover																																

Remarks:
 Hydrophytic vegetation indicators were observed at this location. % Bare Ground in Herb Stratum was 40%.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/13/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 4
 Investigator(s): Jason Sellers, Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Upland terrace Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.656879 Long: -97.661282 Datum: NAD 83
 Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent slopes (Ead) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: This location does not meet the criteria to be considered a wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 1 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0.0% </u> (A/B)
2.					
3.					
4.					
5.					
= Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u> 0 </u> x 1 = <u> 0 </u> FACW species <u> 0 </u> x 2 = <u> 0 </u> FAC species <u> 0 </u> x 3 = <u> 0 </u> FACU species <u> 100 </u> x 4 = <u> 400 </u> UPL species <u> 0 </u> x 5 = <u> 0 </u> Column Totals: <u> 100 </u> (A) <u> 400 </u> (B) Prevalence Index = B/A = <u> 4 </u>
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					
= Total Cover					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>

Remarks:
Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 0%.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/13/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Wet 1
 Investigator(s): Jason Sellers, Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.656187 Long: -97.662741 Datum: NAD 83
 Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent slopes (Ead) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydic Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks:
 This location meets the criteria to be considered a wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																												
1.																																	
2.																																	
3.																																	
4.																																	
5.																																	
= Total Cover																																	
Sapling/Shrub Stratum	(Plot size: <u>15-ft radius</u>)				Prevalence Index worksheet: <table border="0"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>82</u></td> <td>x 1 =</td> <td><u>82</u></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> </tr> <tr> <td>FAC species</td> <td><u>18</u></td> <td>x 3 =</td> <td><u>54</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>100</u> (A)</td> <td></td> <td><u>136</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.36</u>	Total % Cover of:		Multiply by:		OBL species	<u>82</u>	x 1 =	<u>82</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>18</u>	x 3 =	<u>54</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>100</u> (A)		<u>136</u> (B)
Total % Cover of:		Multiply by:																															
OBL species	<u>82</u>	x 1 =	<u>82</u>																														
FACW species	<u>0</u>	x 2 =	<u>0</u>																														
FAC species	<u>18</u>	x 3 =	<u>54</u>																														
FACU species	<u>0</u>	x 4 =	<u>0</u>																														
UPL species	<u>0</u>	x 5 =	<u>0</u>																														
Column Totals:	<u>100</u> (A)		<u>136</u> (B)																														
1. <u>Ulmus crassifolia</u>		<u>5</u>	<u>Yes</u>	<u>FAC</u>																													
2.																																	
3.																																	
4.																																	
5.																																	
= Total Cover																																	
Herb Stratum	(Plot size: <u>5-ft radius</u>)				Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																												
1. <u>Eleocharis palustris</u>		<u>70</u>	<u>Yes</u>	<u>OBL</u>																													
2. <u>Marsilea mutica</u>		<u>10</u>	<u>No</u>	<u>OBL</u>																													
3. <u>Ambrosia trifida</u>		<u>10</u>	<u>No</u>	<u>FAC</u>																													
4. <u>Iva annua</u>		<u>3</u>	<u>No</u>	<u>FAC</u>																													
5. <u>Alternanthera philoxeroides</u>		<u>2</u>	<u>No</u>	<u>OBL</u>																													
6.																																	
7.																																	
8.																																	
9.																																	
10.																																	
= Total Cover																																	
Woody Vine Stratum	(Plot size: <u>30-ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																												
1.																																	
2.																																	
= Total Cover																																	

Remarks:
 Hydrophytic vegetation indicators were observed at this location. % Bare Ground in Herb Stratum was 5%.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/31/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 5
 Investigator(s): Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Plains Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.655285 Long: -97.664065 Datum: NAD 83
 Soil Map Unit Name: Sunev silty clay loam, 1 to 3 percent slopes (Svb) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: This location does not meet the criteria to be considered a wetland.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																													
1. <u>Carya illinoensis</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)																												
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
<u>20</u> = Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td><td align="center"><u>0</u></td> <td>x 1 =</td><td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td><td align="center"><u>0</u></td> <td>x 2 =</td><td align="center"><u>0</u></td> </tr> <tr> <td>FAC species</td><td align="center"><u>20</u></td> <td>x 3 =</td><td align="center"><u>60</u></td> </tr> <tr> <td>FACU species</td><td align="center"><u>80</u></td> <td>x 4 =</td><td align="center"><u>320</u></td> </tr> <tr> <td>UPL species</td><td align="center"><u>0</u></td> <td>x 5 =</td><td align="center"><u>0</u></td> </tr> <tr> <td>Column Totals:</td><td align="center"><u>100</u> (A)</td> <td></td><td align="center"><u>380</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.8</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>20</u>	x 3 =	<u>60</u>	FACU species	<u>80</u>	x 4 =	<u>320</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>100</u> (A)		<u>380</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>0</u>	x 2 =	<u>0</u>																													
FAC species	<u>20</u>	x 3 =	<u>60</u>																													
FACU species	<u>80</u>	x 4 =	<u>320</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>100</u> (A)		<u>380</u> (B)																													
<u>20</u> = Total Cover																																
<u>20</u> = Total Cover																																
<u>20</u> = Total Cover																																
<u>20</u> = Total Cover																																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																													
1. _____	_____	_____	_____																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
_____ = Total Cover																																
<u>Herb Stratum</u> (Plot size: <u>5-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																													
1. <u>Avena sativa</u>	<u>80</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																												
2. <u>Bothriochloa laguroides</u>	<u>20</u>	<u>Yes</u>	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
<u>100</u> = Total Cover																																
<u>Woody Vine Stratum</u> (Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																													
1. _____	_____	_____	_____																													
2. _____	_____	_____	_____																													
_____ = Total Cover																																

Remarks:
 Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 0%.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/31/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 6
 Investigator(s): Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Plains Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.658670 Long: -97.659075 Datum: NAD 83
 Soil Map Unit Name: Krum silty clay, 1 to 3 percent slopes (Krb) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: This location does not meet the criteria to be considered a wetland.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Prosopis glandulosa</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0.0% </u> (A/B)																																
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
<u>15</u> = Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species <u> 0 </u></td> <td>x 1 =</td> <td><u> 0 </u></td> <td></td> </tr> <tr> <td>FACW species <u> 0 </u></td> <td>x 2 =</td> <td><u> 0 </u></td> <td></td> </tr> <tr> <td>FAC species <u> 0 </u></td> <td>x 3 =</td> <td><u> 0 </u></td> <td></td> </tr> <tr> <td>FACU species <u> 105 </u></td> <td>x 4 =</td> <td><u> 420 </u></td> <td></td> </tr> <tr> <td>UPL species <u> 0 </u></td> <td>x 5 =</td> <td><u> 0 </u></td> <td></td> </tr> <tr> <td>Column Totals: <u> 105 </u> (A)</td> <td></td> <td><u> 420 </u> (B)</td> <td></td> </tr> <tr> <td align="center" colspan="4">Prevalence Index = B/A = <u> 4 </u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species <u> 0 </u>	x 1 =	<u> 0 </u>		FACW species <u> 0 </u>	x 2 =	<u> 0 </u>		FAC species <u> 0 </u>	x 3 =	<u> 0 </u>		FACU species <u> 105 </u>	x 4 =	<u> 420 </u>		UPL species <u> 0 </u>	x 5 =	<u> 0 </u>		Column Totals: <u> 105 </u> (A)		<u> 420 </u> (B)		Prevalence Index = B/A = <u> 4 </u>			
Total % Cover of:		Multiply by:																																		
OBL species <u> 0 </u>	x 1 =	<u> 0 </u>																																		
FACW species <u> 0 </u>	x 2 =	<u> 0 </u>																																		
FAC species <u> 0 </u>	x 3 =	<u> 0 </u>																																		
FACU species <u> 105 </u>	x 4 =	<u> 420 </u>																																		
UPL species <u> 0 </u>	x 5 =	<u> 0 </u>																																		
Column Totals: <u> 105 </u> (A)		<u> 420 </u> (B)																																		
Prevalence Index = B/A = <u> 4 </u>																																				
_____	_____	_____	_____																																	
_____	_____	_____	_____																																	
_____	_____	_____	_____																																	
_____	_____	_____	_____																																	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15-ft radius</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
_____ = Total Cover																																				
<u>Herb Stratum</u> (Plot size: <u>5-ft radius</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																																
1. <u>Cynodon dactylon</u>	<u>90</u>	<u>Yes</u>	<u>FACU</u>																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
<u>90</u> = Total Cover																																				
<u>Woody Vine Stratum</u> (Plot size: <u>30-ft radius</u>)																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
_____ = Total Cover																																				

Remarks:
 Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 10%.

SOIL

Sampling Point: Up 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/2	100					Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)			Indicators for Problematic Hydric Soils ³ :		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 1 cm Muck (A9) (LRR I, J)			
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR F,G, H)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) (LRR G)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> High Plains Depressions (F16)			
<input type="checkbox"/> Stratified Layers (A5) (LRR F)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> (LRR H outside MLRA 72 & 73)			
<input type="checkbox"/> 1 cm Muck (A9) (LRR F, G, H)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Reduced Vertic (F18)			
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (TF2)			
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)			
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2)(LRR G,H)	<input type="checkbox"/> High Plains Depressions (F16)				
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR F)	<input type="checkbox"/> (MLRA 72 & 73 of LRR H)				

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
Hydric soil indicators were not observed at this location.

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> (where tilled)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> (where not tilled)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Forst-Heave Hummocks (D7) (LRR F)

Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Hydrologic indicators were not observed at this location.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/31/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 7
 Investigator(s): Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Plains Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.663439 Long: -97.651632 Datum: NAD 83
 Soil Map Unit Name: Heiden clay, 1 to 3 percent slopes (Heb) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: This location does not meet the criteria to be considered a wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 1 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0.0% </u> (A/B)														
2.	_____	_____	_____	_____															
3.	_____	_____	_____	_____															
4.	_____	_____	_____	_____															
5.	_____	_____	_____	_____															
_____ = Total Cover					Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: right;">Total % Cover of:</td> <td style="width:50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u> 0 </u></td> <td>x 1 = <u> 0 </u></td> </tr> <tr> <td>FACW species <u> 0 </u></td> <td>x 2 = <u> 0 </u></td> </tr> <tr> <td>FAC species <u> 0 </u></td> <td>x 3 = <u> 0 </u></td> </tr> <tr> <td>FACU species <u> 90 </u></td> <td>x 4 = <u> 360 </u></td> </tr> <tr> <td>UPL species <u> 0 </u></td> <td>x 5 = <u> 0 </u></td> </tr> <tr> <td>Column Totals: <u> 90 </u> (A)</td> <td><u> 360 </u> (B)</td> </tr> </table> Prevalence Index = B/A = <u> 4 </u>	Total % Cover of:	Multiply by:	OBL species <u> 0 </u>	x 1 = <u> 0 </u>	FACW species <u> 0 </u>	x 2 = <u> 0 </u>	FAC species <u> 0 </u>	x 3 = <u> 0 </u>	FACU species <u> 90 </u>	x 4 = <u> 360 </u>	UPL species <u> 0 </u>	x 5 = <u> 0 </u>	Column Totals: <u> 90 </u> (A)	<u> 360 </u> (B)
Total % Cover of:	Multiply by:																		
OBL species <u> 0 </u>	x 1 = <u> 0 </u>																		
FACW species <u> 0 </u>	x 2 = <u> 0 </u>																		
FAC species <u> 0 </u>	x 3 = <u> 0 </u>																		
FACU species <u> 90 </u>	x 4 = <u> 360 </u>																		
UPL species <u> 0 </u>	x 5 = <u> 0 </u>																		
Column Totals: <u> 90 </u> (A)	<u> 360 </u> (B)																		
Sapling/Shrub Stratum	(Plot size: <u>15-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1.	_____	_____	_____	_____															
2.	_____	_____	_____	_____															
3.	_____	_____	_____	_____															
4.	_____	_____	_____	_____															
5.	_____	_____	_____	_____															
_____ = Total Cover																			
Herb Stratum	(Plot size: <u>5-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1.	<u>Cynodon dactylon</u>	<u> 90 </u>	<u> Yes </u>	<u> FACU </u>															
2.	_____	_____	_____	_____															
3.	_____	_____	_____	_____															
4.	_____	_____	_____	_____															
5.	_____	_____	_____	_____															
6.	_____	_____	_____	_____															
7.	_____	_____	_____	_____															
8.	_____	_____	_____	_____															
9.	_____	_____	_____	_____															
10.	_____	_____	_____	_____															
_____ = Total Cover																			
Woody Vine Stratum	(Plot size: <u>30-ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1.	_____	_____	_____	_____															
2.	_____	_____	_____	_____															
_____ = Total Cover																			

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

Remarks:
 Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 10%.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: FM 971 City/County: Georgetown/Williamson Sampling Date: 7/31/2023
 Applicant/Owner: City of Georgetown State: TX Sampling Point: Up 8
 Investigator(s): Tamura Dunbar Section, Township, Range: n/a
 Landform (hillside, terrace, etc.): Plains Local relief (concave, convex, none): concave Slope (%): 1
 Subregion: LRR J, MLRA 86A Lat: 30.661227 Long: -97.639609 Datum: NAD 83
 Soil Map Unit Name: Krum silty clay, 1 to 3 percent slopes (Krb) NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydic Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	

Remarks:
 This location does not meet the criteria to be considered a wetland.

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15-ft radius</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Prevalence Index worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>
4. _____	_____	_____	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	_____	_____	_____	FACU species <u>90</u> x 4 = <u>360</u>
= Total Cover				UPL species <u>0</u> x 5 = <u>0</u>
				Column Totals: <u>90</u> (A) <u>360</u> (B)
				Prevalence Index = B/A = <u>4</u>
<u>Herb Stratum</u> (Plot size: <u>5-ft radius</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Hydrophytic Vegetation Indicators:
1. <u>Cynodon dactylon</u>	<u>90</u>	<u>Yes</u>	<u>FACU</u>	
2. _____	_____	_____	_____	<u> </u> 2 - Dominance Test is >50%
3. _____	_____	_____	_____	<u> </u> 3 - Prevalence Index is ≤3.0 ¹
4. _____	_____	_____	_____	<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____	<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
90 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30-ft radius</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				

Remarks:
 Hydrophytic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 10%.

SOIL

Sampling Point: Up 8

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/1	100					Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 1 cm Muck (A9) (LRR I, J)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR F,G, H)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) (LRR G)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> High Plains Depressions (F16)
<input type="checkbox"/> Stratified Layers (A5) (LRR F)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> (LRR H outside MLRA 72 & 73)
<input type="checkbox"/> 1 cm Muck (A9) (LRR F, G, H)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2)(LRR G,H)	<input type="checkbox"/> High Plains Depressions (F16)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR F)	<input type="checkbox"/> (MLRA 72 & 73 of LRR H)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
Hydric soil indicators were not observed at this location.

HYDROLOGY

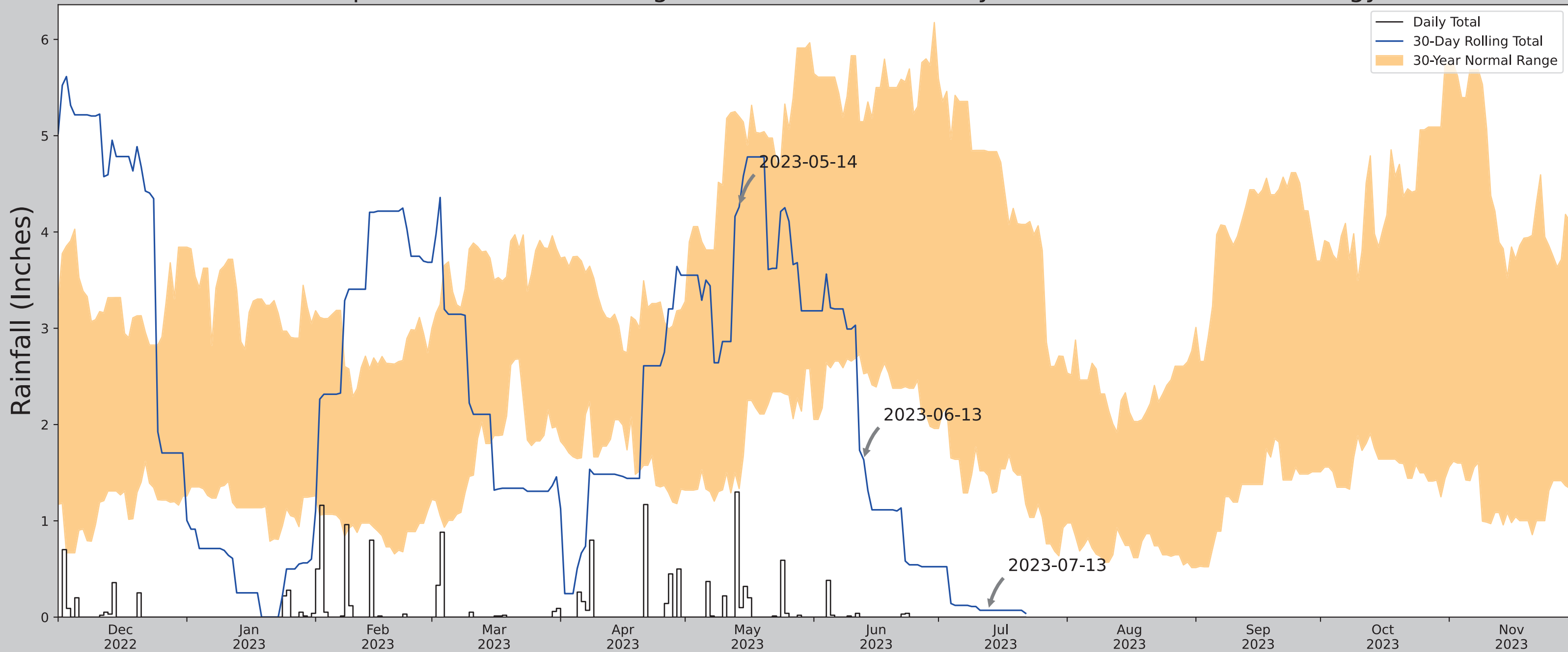
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> (where not tilled)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Forst-Heave Hummocks (D7) (LRR F)
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) (where tilled)	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Hydrologic indicators were not observed at this location.

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



Coordinates	30.656153, -97.662779
Observation Date	2023-07-13
Elevation (ft)	690.501
Drought Index (PDSI)	Moderate drought (2023-06)
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-07-13	1.470472	4.834252	0.070866	Dry	1	3	3
2023-06-13	2.527953	5.145669	1.633858	Dry	1	2	2
2023-05-14	1.335039	5.198032	4.259843	Normal	2	1	2
Result							Drier than Normal - 7



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
GEORGETOWN LAKE	30.6764, -97.7208	874.016	3.721	183.515	2.357	10804	88
GEORGETOWN 3.0 NW	30.6801, -97.7198	881.89	0.262	7.874	0.12	4	0
GEORGETOWN 2.8 NNW	30.6813, -97.7117	854.003	0.638	20.013	0.3	309	0
GEORGETOWN 2.2 NW	30.6692, -97.714	820.866	0.641	53.15	0.323	88	0
GEORGETOWN 3.9 NW	30.6898, -97.7311	882.874	1.11	8.858	0.509	6	0
GEORGETOWN 1.5 WNW	30.6575, -97.7093	799.869	1.474	74.147	0.773	10	0
GEORGETOWN 2.0 N	30.6763, -97.6926	783.137	1.676	90.879	0.907	13	0
GEORGETOWN 1.1 WNW	30.6559, -97.7021	756.89	1.8	117.126	1.021	19	2
GEORGETOWN 1.2 W	30.6504, -97.7069	799.869	1.977	74.147	1.036	35	0
GEORGETOWN 4.9 NW	30.7061, -97.7339	845.144	2.195	28.872	1.051	15	0
JARRELL	30.8294, -97.6011	875.984	12.738	1.968	5.757	50	0