

## Environmental Resource Inventory

For the City of Austin  
 Related to LDC 25-8-121, City Code 30-5-121, ECM 1.3.0 & 1.10.0

The ERI is required for projects that meet one or more of the criteria listed in LDC 25-8-121(A), City Code 30-5-121(A).

1. SITE/PROJECT NAME: Capital City Crushing LLC - Barr Lane Tract
2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 236637, 236648
3. ADDRESS/LOCATION OF PROJECT: 10506 Barr Lane Austin, Texas 78754
4. WATERSHED: (HUC12)120902050307: Walnut Creek-Colorado River
5. THIS SITE IS WITHIN THE *(Check all that apply)*

Edwards Aquifer Recharge Zone* <i>(See note below)</i> .....	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> No
Edwards Aquifer Contributing Zone* .....	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> No
Edwards Aquifer 1500 ft Verification Zone* .....	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> No
Barton Spring Zone* .....	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> No

*\*(as defined by the City of Austin – LDC 25-8-2 or City Code 30-5-2)*

**Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.**

6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?.....☐ YES\*\* ☒ NO  
 If yes, then check all that apply:
  - ☐ (1) The floodplain modifications proposed are necessary to protect the public health and safety;
  - ☐ (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the *Environmental Criteria Manual (ECM)*, or
  - ☐ (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under LDC 25-8-261 or 25-8-262, City Code 30-5-261 or 30-5-262.**
  - ☐ (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

**\*\* If yes, then a functional assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X for forms and guidance) unless conditions 1 or 3 above apply.**

7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE? ..... ☐ YES\*\*\* ☒ NO

**\*\*\*If yes, then riparian restoration is required by LDC 25-8-261(E) or City Code 30-5-261(E) and a functional assessment must be completed and attached to the ERI (see ECM1.5 and Appendix X for forms and guidance).**

8. There is a total of 2 (#s) Critical Environmental Feature(s)(CEFs) on or within 150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color **PHOTOGRAPHS**, the **CEF WORKSHEET** and provide **DESCRIPTIONS** of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site *(Please provide the number of CEFs )*:

\_\_\_\_\_ (#'s) Spring(s)/Seep(s)      \_\_\_\_\_ (#'s) Point Recharge Feature(s)      \_\_\_\_\_ (#'s) Bluff(s)  
 \_\_\_\_\_ (#'s) Canyon Rimrock(s)        2   (#'s) Wetland(s)

**Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is not provided, you must provide a written request for an administrative variance from LDC 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.**

9. The following site maps are attached at the end of this report (Check all that apply and provide):

All ERI reports must include:

- ☒ **Site Specific Geologic Map with 2-ft Topography**
- ☒ **Historic Aerial Photo of the Site**
- ☒ **Site Soil Map**
- ☒ **Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography**

Only if present on site (Maps can be combined):

- ☐ **Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone**  
(Only if site is over or within 1500 feet the recharge zone)
- ☐ **Edwards Aquifer Contributing Zone**
- ☐ **Water Quality Transition Zone (WQTZ)**
- ☒ **Critical Water Quality Zone (CWQZ)**
- ☒ **City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage**

10. **HYDROGEOLOGIC REPORT** – Provide a description of site soils, topography, and site specific geology below (Attach additional sheets if needed):

**Surface Soils** on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups\*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness		
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)
See attachment (10.0)		

**\*Soil Hydrologic Groups Definitions (Abbreviated)**

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

\*\*Subgroup Classification – See Classification of Soil Series Table in County Soil Survey.

**Description of Site Topography and Drainage** *(Attach additional sheets if needed):*

According to the City of Austin 2-ft topographic contours (2012), the elevation ranges from 562 feet above mean sea level (AMSL) to 636 feet AMSL. The topography generally slopes to the east and west from the center the subject area.

**List surface geologic units below:**

Geologic Units Exposed at Surface		
Group	Formation	Member
Taylor Group	Navarro and Taylor Groups (Knt)	

**Brief description of site geology** *(Attach additional sheets if needed):*

According to the Geologic Atlas of Texas: Austin Sheet, one mapped geologic units intersects the project area as follows:

"Navarro and Taylor Groups Undivided (Knt): "In areas where Pecan Gap Chalk is not present because of gradation to marl similar to that of the Marlbrook and Ozan Formations."

Reference: United States Geological Survey. 2015. Texas Geology Map Viewer. Last Accessed: May 4, 2020. <http://txpub.usgs.gov/txgeology/>

**Wells** – Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

There are  $\frac{0}{0}$ (#) wells present on the project site and the locations are shown and labeled  
 $\frac{0}{0}$ (#s)The wells are not in use and have been properly abandoned.  
 $\frac{0}{0}$ (#s)The wells are not in use and will be properly abandoned.  
 $\frac{0}{0}$ (#s)The wells are in use and comply with 16 TAC Chapter 76.  
 There are  $\frac{0}{0}$ (#s) wells that are off-site and within 150 feet of this site.

11. **THE VEGETATION REPORT** – Provide the information requested below:

**Brief description of site plant communities** (Attach additional sheets if needed):

According to the Vegetation Types of Texas (McMahan et al. 1984), the subject area is designated as Silver Bluestem-Texas Wintergrass Grassland. McMahan et al. (1984) defines Grassland as "Herbs (grasses, forbs, and grasslike plants) dominant; woody vegetation lacking or nearly so (generally 10 percent or less woody canopy coverage)."

On-site conditions are not consistent with the Grassland designation, woody canopy coverage across the subject area is generally greater than 10 percent. Herbs are not dominant across the site

Reference

McMahan, Craig A., R.G. Frye, and K.L. Brown, 1984. The Vegetation Types of Texas. Texas Parks and Wildlife Department. Austin, Texas.

There is woodland community on site ..... ☒ YES ☐ NO (Check one).

If yes, list the dominant species below:

Woodland species	
Common Name	Scientific Name
Ashe juniper	<i>Juniperus ashei</i>
Hackberry	<i>Celtis laevigata</i>
Honey mesquite	<i>Prosopis glandulosa</i>
Cedar elm	<i>Ulmus crassifolia</i>
Greenbrier	<i>Smilax bona-nox</i>

There is grassland/prairie/savanna on site..... ☐ YES ☐ NO (Check one).

If yes, list the dominant species below:

Grassland/prairie/savanna species	
Common Name	Scientific Name
Canada wildrye	<i>Elymus canadensis</i>
Scribner's rosette	<i>Dichanthelium oligosanthos</i>
Bee balm	<i>Monarda fistulosa</i>
Texan great ragweed	<i>Ambrosia trifida</i>
Silver bluestem	<i>Brothriochloa saccharoides</i>
Texas croton	<i>Croton texensis</i>

There is hydrophytic vegetation on site ..... ☐ YES ☐ NO (Check one).

If yes, list the dominant species in table below (next page):



Hydrophytic plant species		
Common Name	Scientific Name	Wetland Indicator Status
Bushy Bluestem	<i>Andropogon glomeratus</i>	FACW
Annual Marsh Elder	<i>Iva annua</i>	FAC
Rough Cocklebur	<i>Xanthium strumarium</i>	FAC
Black willow	<i>Salix nigra</i>	FACW
Canada wild rye	<i>Elymus canadensis</i>	FAC
Marsh elder	<i>Iva annua</i>	FAC

A tree survey of all trees with a diameter of at least eight inches measured four and one-half feet above natural grade level has been completed on the site.

☐ YES ☒ NO (Check one).

**12. WASTEWATER REPORT** – Provide the information requested below.

Wastewater for the site will be treated by (Check of that Apply):

- ☒ On-site system(s)  
☐ City of Austin Centralized sewage collection system  
☐ Other Centralized collection system

*Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with City Code Chapter 15-12 and wells must be registered with the City of Austin*

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications.

☒ YES ☐ NO (Check one).

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan.

☐ YES ☒ NO ☐ Not Applicable (Check one).

Wastewater lines are proposed within the Critical Water Quality Zone?

☐ YES ☒ NO (Check one). If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?

☐ YES ☒ NO (Check one).

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

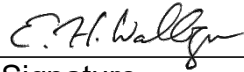
**13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.**

Date(s) ERI Field Assessment was performed: 12/12/2019  
Date(s)

My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

Eric Wallgren

Print Name



Signature

Westward Environmental, Inc.

Name of Company

830-249-8284

Telephone

ewallgren@westwardenv.com

Email Address

June 4, 2020

Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).

P.G.  
Seal

## **ATTACHMENTS**

### **8.0 Critical Environmental Feature Descriptions**

- 8-1. CEF Descriptions
- 8-2. CEF Representative Photographs
- 8-3. CEF Worksheet

### **9.0 Subject Area Figures**

- 9-1. Site Specific Geologic Map with 2-ft Topography
- 9-2. Historical Aerial Photo of the Site (1996)
- 9-3. Site Soils Map
- 9-4. Critical Environmental Feature and Well Location
- 9-5. City of Austin Critical Water Quality Zone
- 9-6. City of Austin Fully Developed Floodplain

### **10.0 Hydrogeologic Report: Surface Soils**

## **8.0 Critical Environmental Feature Descriptions**

- 8-1. CEF Descriptions
- 8-2. CEF Representative Photographs
- 8-3. CEF Worksheet

## **8-1. CEF Descriptions**

### **On-Site Critical Environmental Features (CEFs)**

CEF-1 is a wetland located in the western portion of the subject area and is approximately 11,474 square feet. CEF-1 was evaluated in accordance with the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual and the Final Great Plains Regional Supplement and was determined to contain a prevalence of hydrophytic vegetation, hydric soils, and wetland hydrology. As such, CEF-1 is considered a potential CEF wetland.

The City of Austin buffer for this feature is 150 feet from the perimeter of the feature.

### **Off-Site Critical Environmental Features**

CEF-2 is a wetland located off-site and south of the subject area, within 150-feet of the property boundary. CEF-2 is approximately 16,702 square feet. This feature was identified via desktop review of the City of Austin Property Profile Viewer and is associated with case number SP-05-1451D.

The City of Austin buffer for this feature is 150 feet from the perimeter of the feature.

## **8-2. CEF Representative Photographs**

## Attachment 8-2: CEF Representative Photographs

Project Name: Capital City Crushing LLC - Barr Lane

Project #: 11034.008



Photo #	CEF-1
Date	12/12/2019
Direction	East
Figure #	9-4
Notes	Photo taken within the potential wetland CEF facing East.



### **8-3. CEF Worksheet**

City of Austin Environmental Resource Inventory - Critical Environmental Feature Worksheet

1	Project Name:	Barr Lane Tract
2	Project Address:	10506 Barr Lane Austin, Texas 78754
3	Site Visit Date:	12/12/2019
4	Environmental Resource Inventory Date:	6/03/2020

5	Primary Contact Name:	Eric Wallgren
6	Phone Number:	830-249-8284
7	Prepared By:	Whitney Schwope
8	Email Address:	wschwope@westwardenv.com

9	FEATURE TYPE {Wetland,Rimrock, Bluffs,Recharge Feature,Spring}	FEATURE ID (eg S-1)	FEATURE LONGITUDE (WGS 1984 in Meters)		FEATURE LATITUDE (WGS 1984 in Meters)		WETLAND DIMENSIONS (ft)		RIMROCK/BLUFF DIMENSIONS (ft)		RECHARGE FEATURE DIMENSIONS				Springs Est. Discharge
			coordinate	notation	coordinate	notation	X	Y	Length	Avg Height	X	Y	Z	Trend	cfs
	Wetland	CEF-1	30.35076317	N	97.64541669	W	148	125							

City of Austin Use Only CASE NUMBER:	
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For rimrock, locate the midpoint of the segment that describes the feature.



For wetlands, locate the approximate centroid of the feature and the estimated area.



For a spring or seep, locate the source of groundwater that feeds a pool or stream.



Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

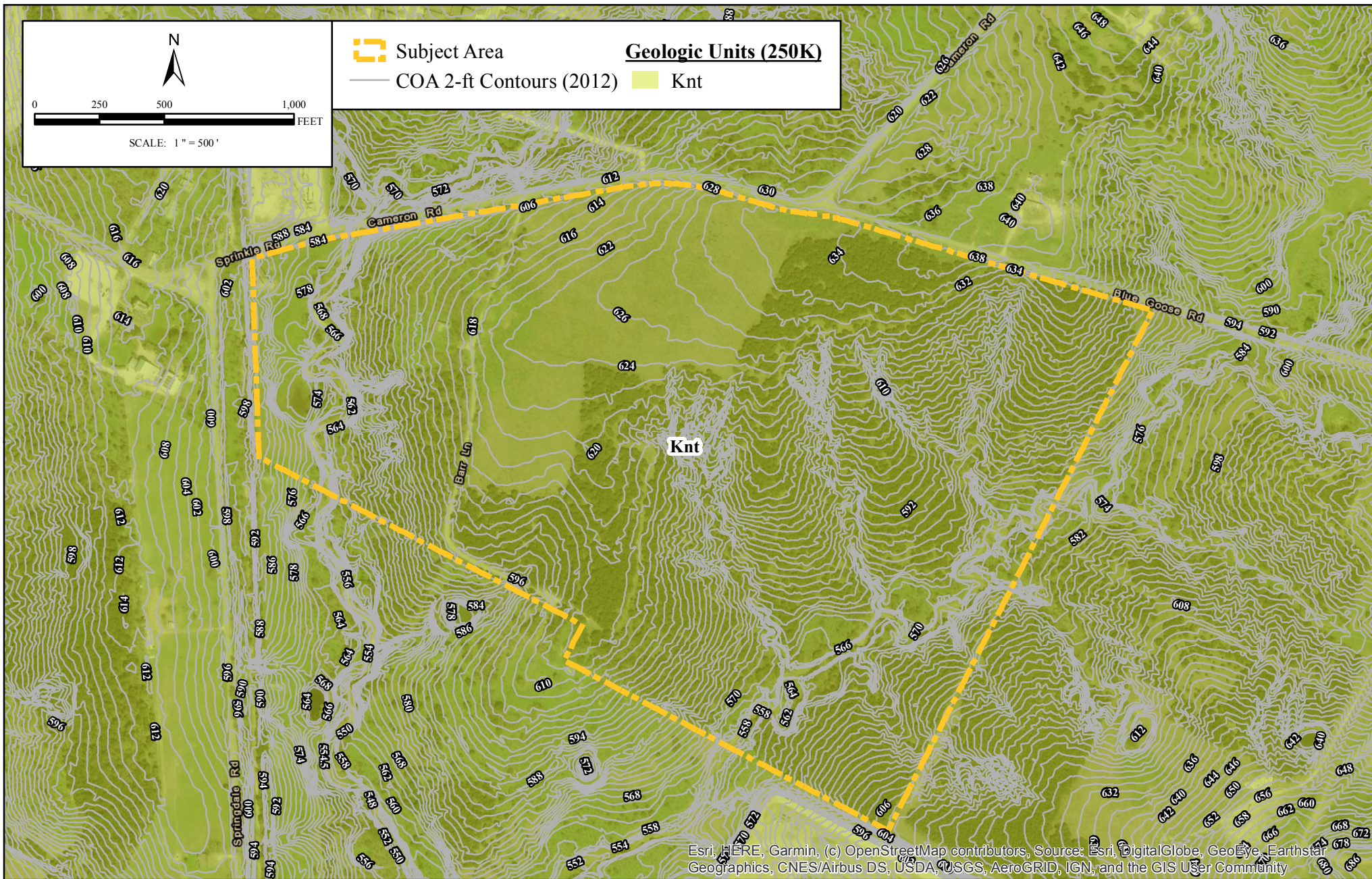
Method		Accuracy	
GPS	<input checked="" type="checkbox"/>	sub-meter	<input type="checkbox"/>
Surveyed	<input type="checkbox"/>	meter	<input type="checkbox"/>
Other	<input type="checkbox"/>	> 1 meter	<input checked="" type="checkbox"/>

Professional Geologists apply seal below

## **9.0 Subject Area Figures**

- 9-1. Site Specific Geologic Map with 2-ft Topography
- 9-2. Historical Aerial Photo of the Site (1996)
- 9-3. Site Soils Map
- 9-4. Critical Environmental Feature and Well Location
- 9-5. City of Austin Critical Water Quality Zone
- 9-6. City of Austin Fully Developed Floodplain





<b>FIGURE NO.:</b> <b>1001</b> <small>OF 006</small>	<b>IMAGE:</b> ESRI World Imagery & Transportation	
	<b>ISSUE DATE:</b>	06/02/2020
	<b>DRAWN BY:</b>	ML
	<b>CHECKED BY:</b>	WS
	<b>SCALE: 1" =</b>	500'
	<b>JOB NO.:</b>	11034-008-004

Site Specific Geologic Map with 2-ft Topography			
City of Austin Environmental Resource Inventory 119-acre Barr Lane Tract Travis County, Texas			
REV.	DESCRIPTION	BY	DATE

**FOR INTERIM REVIEW ONLY**

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 TBPG REG. NO.: 50112



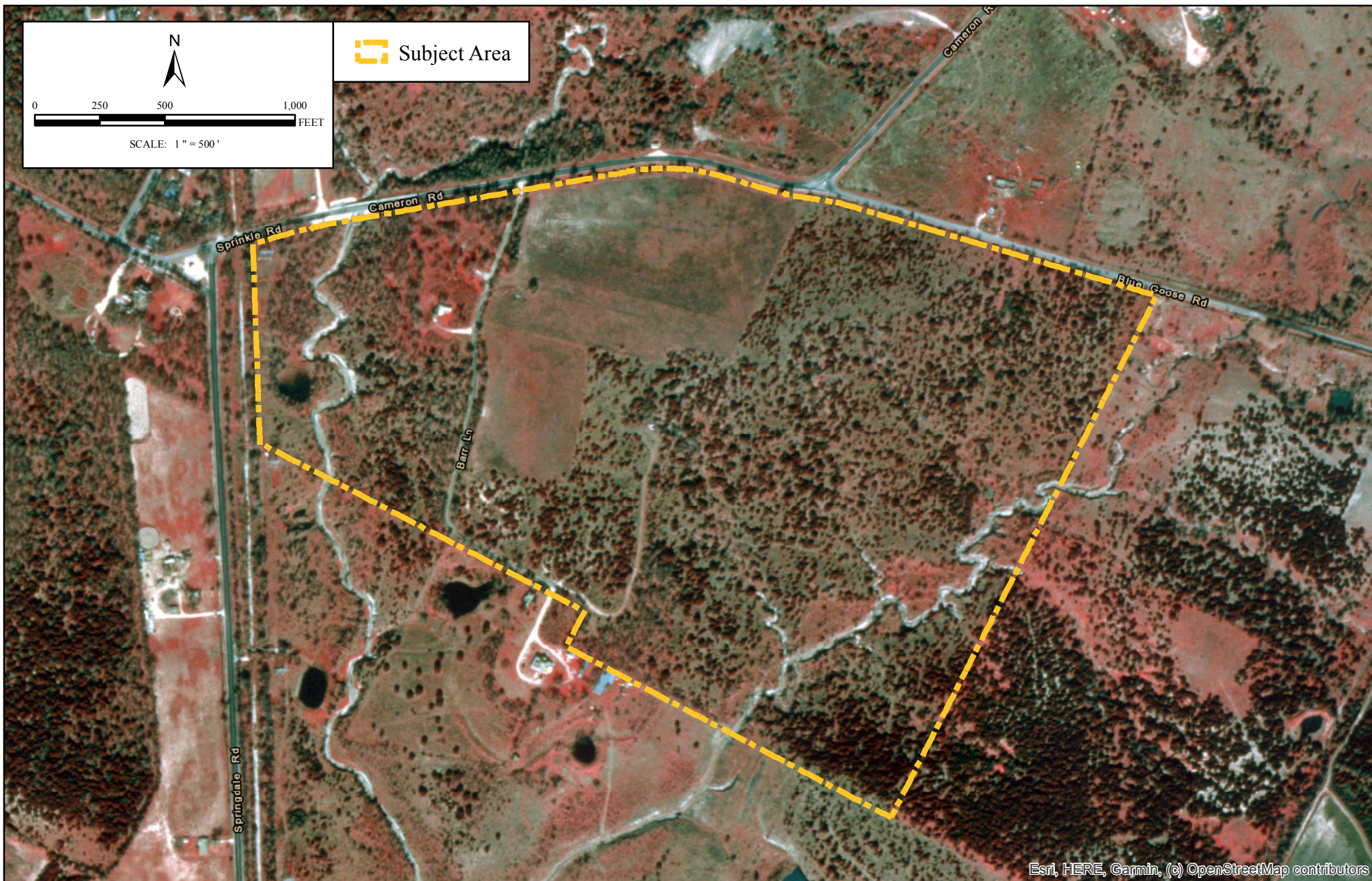


FIGURE NO.:  <b>002</b>  OF 006	<b>IMAGE:</b> Texas Orthophoto Program Austin Ease NE (1996)	
	ISSUE DATE:	04/20/2020
	DRAWN BY:	ML
	CHECKED BY:	WS
	SCALE: 1" =	500'
	JOB NO.:	11034-008-004

<b>Historic Aerial Photo of the Site (1996)</b> City of Austin Environmental Resource Inventory 119-acre Barr Lane Tract Travis County, Texas			
REV.	DESCRIPTION	BY	DATE

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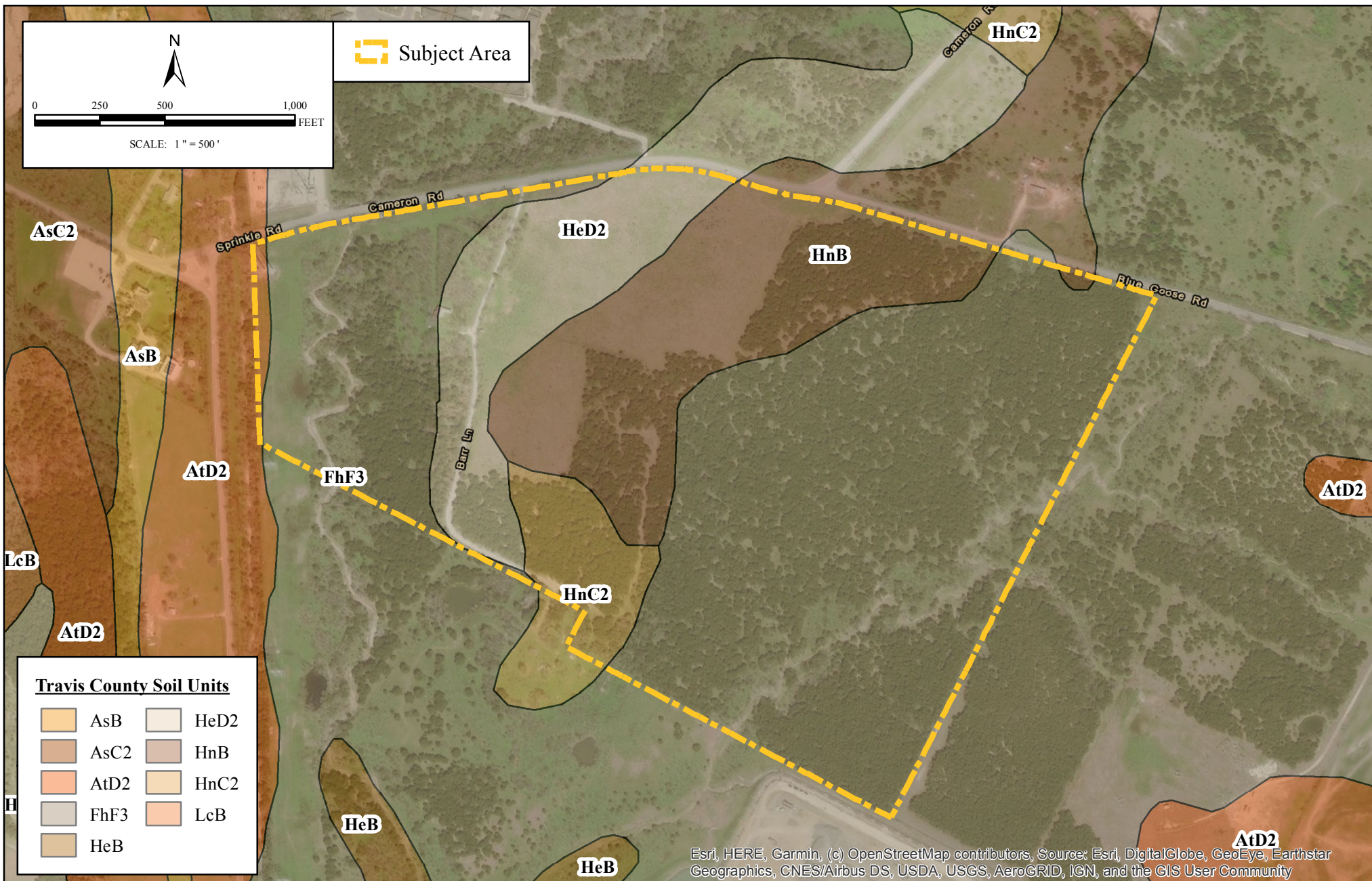


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003 OF 006	FIGURE NO.:	
	IMAGE: ESRI World Imagery & Transportation	
	ISSUE DATE:	04/20/2020
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	SCALE: 1" =	500'
JOB NO.:		11034-008-004

Site Soils Map			
City of Austin Environmental Resource Inventory 119-acre Barr Lane Tract Travis County, Texas			
REV.	DESCRIPTION	BY	DATE

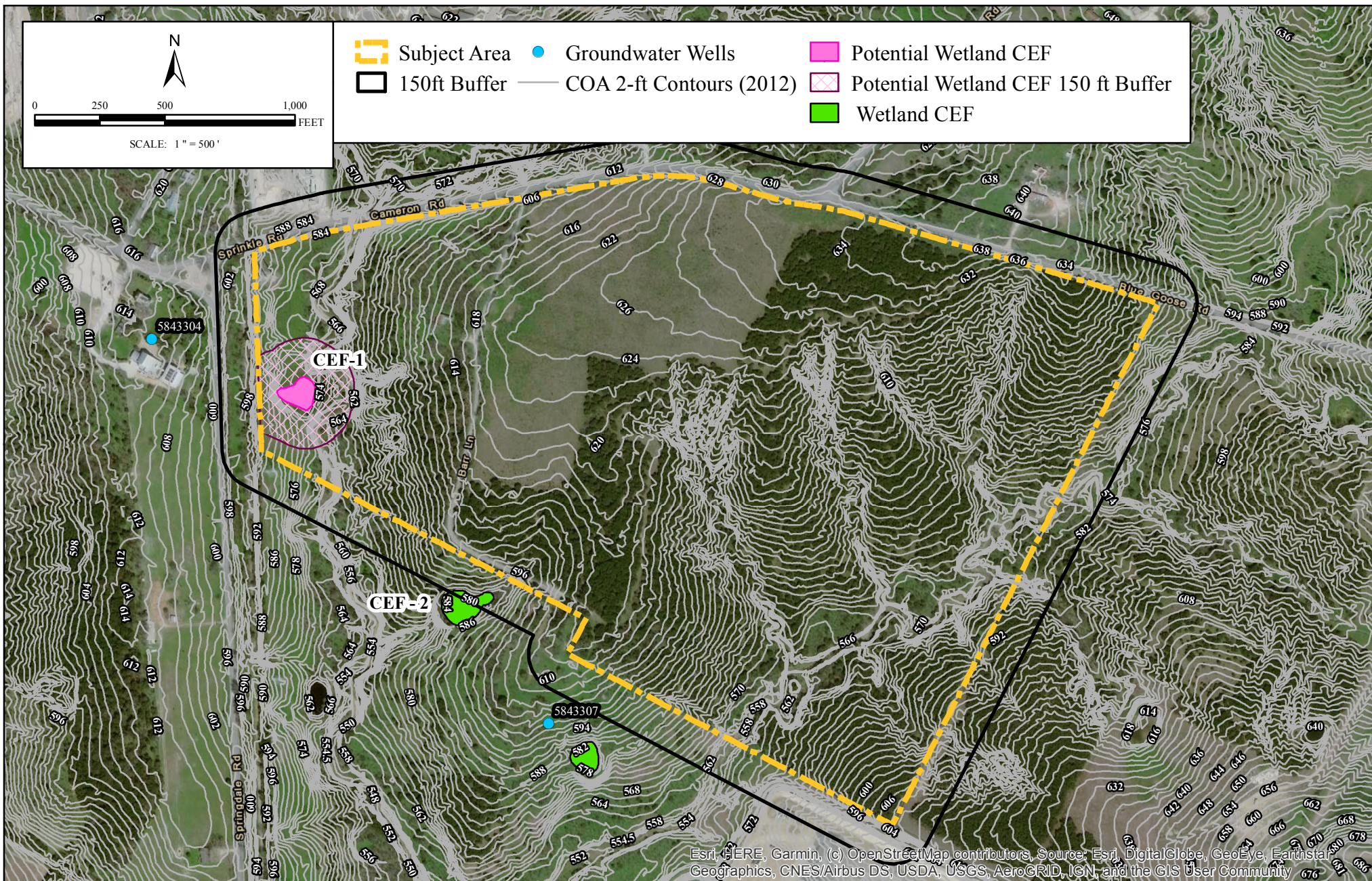
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Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

IMAGE: ESRI World Imagery  
& Transportation

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JOB NO.:	11034-008-004

## Critical Environmental Features and Well Location Map

City of Austin Environmental Resource Inventory  
119-acre Barr Lane Tract  
Travis County, Texas

REV.	DESCRIPTION	BY	DATE

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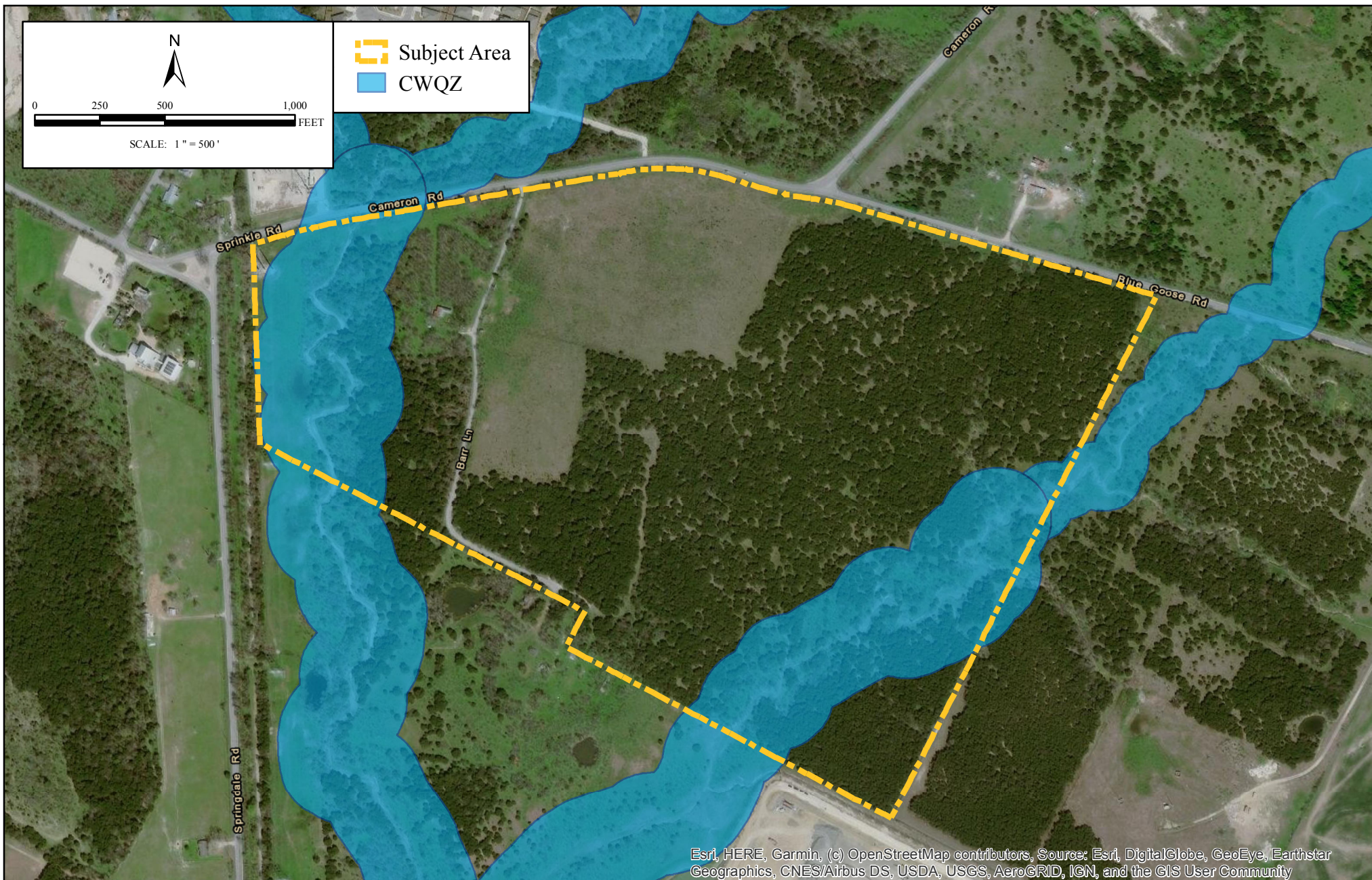
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FIGURE NO.:

004

OF 006





<div>005</div> <div>OF 006</div>	FIGURE NO.:		IMAGE: ESRI World Imagery & Transportation	
	ISSUE DATE:	04/20/2020		
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	CHECKED BY:	WS		
	SCALE: 1" =	500'		
	JOB NO.:	11034-008-004		

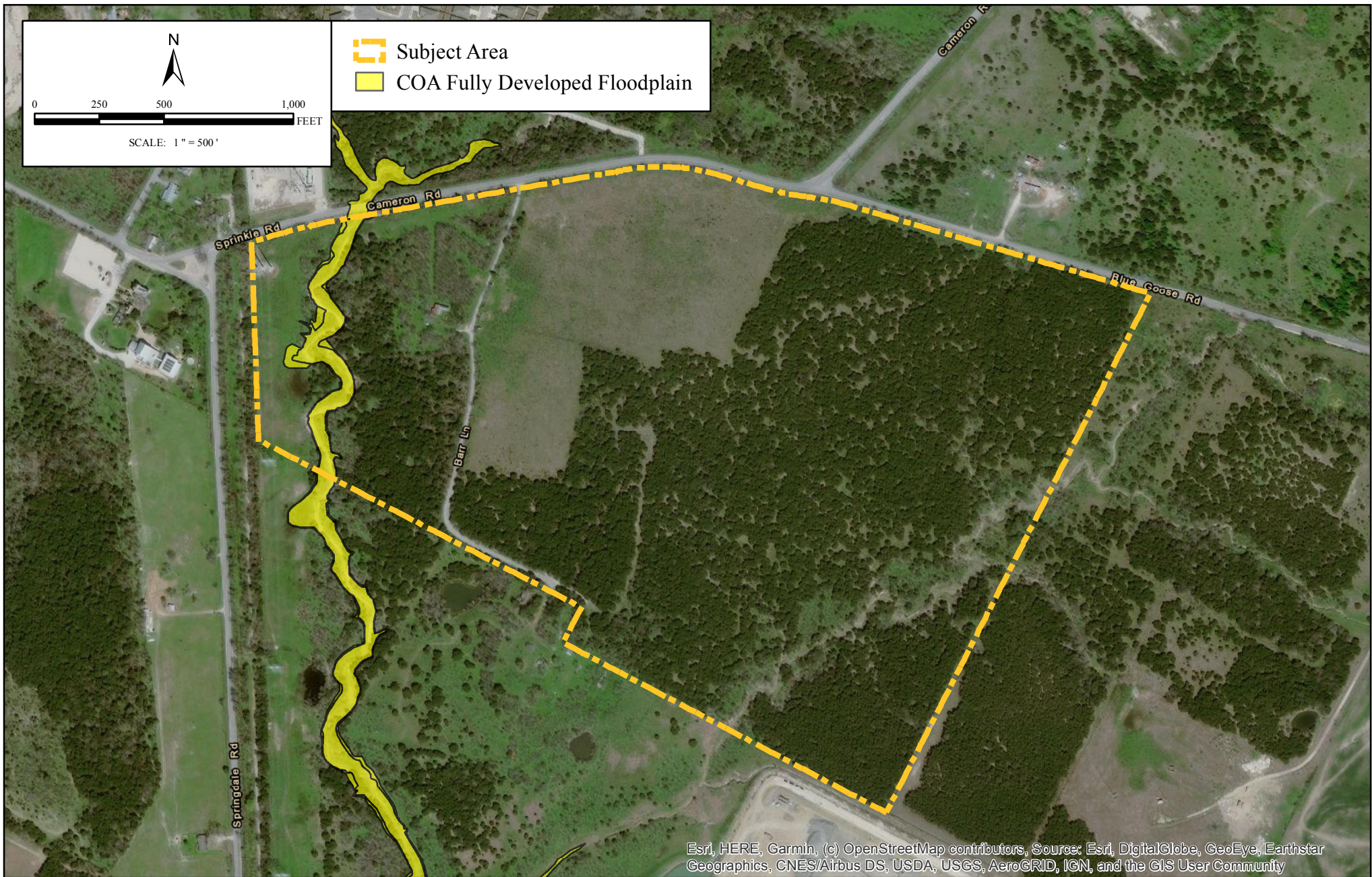
City of Austin Critical Water Quality Zones (CWQZ)				
City of Austin Environmental Resource Inventory 119-acre Barr Lane Tract Travis County, Texas				
REV.	DESCRIPTION	BY	DATE	

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<div>006</div> <div>OF 006</div>	FIGURE NO.:		IMAGE: ESRI World Imagery & Transportation	
	ISSUE DATE:	04/20/2020		
	DRAWN BY:	ML		
	CHECKED BY:	WS		
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City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage				
City of Austin Environmental Resource Inventory 119-acre Barr Lane Tract Travis County, Texas				
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## 10.0 Hydrogeologic Report: Surface Soils

The U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) identifies five soils within the subject area.

Soil Series Unit Names, Infiltration Characteristics, & Thickness		
Soil Series Unit Name & Subgroup	Group	Thickness (feet)
Austin-Whitewright complex (AtD2), 5 to 8 percent slopes, moderately eroded	C	0-4 ft
Ferris-Heiden complex (FhF3), 8 to 20 percent slopes, severely eroded	D	0-6.7 ft
Heiden clay (HeD2), 5 to 8 percent slopes, eroded	D	0-6.7 ft
Houston Black clay (HnB), 1 to 3 percent slopes	D	0-6.7 ft
Houston Black clay (HnC2), 3 to 5 percent slopes, moderately eroded	D	0-6.7 ft

### Reference

(NRCS) The U.S. Department of Agriculture Natural Resource Conservation Service. 2020. Web Soil Survey: Soil Map for Area of Interest in Travis, County, Texas. Last accessed: May 26, 2020  
<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>