

September 16, 2024

Ms. Monica Reyes
Texas Commission on Environmental Quality (TCEQ)
Region 13
14250 Judson Road
San Antonio, Texas 78233-4480

Re: UTSA Habitat Conservation Plan
Recharge Zone Exception Application

Dear Ms. Reyes:

Please find included herein the UTSA Habitat Conservation Plan Recharge Zone Exception Application. This Recharge Zone Exception Application has been prepared in accordance with the Texas Administrative Code (30 TAC 213) and current policies for development over the Edwards Aquifer Recharge Zone.

This Recharge Zone Exception Application applies to an approximate 0.25-acre site as identified by the project limits for five sensitive features. Please review the plan information for the items it is intended to address. If acceptable, please provide a written approval of the plan in order that construction may begin at the earliest opportunity.

Appropriate review fees (\$500) and fee application are included. If you have questions or require additional information, please do not hesitate to contact me at your earliest convenience.

Sincerely,
Pape-Dawson Consulting Engineers, LLC



Jason T. Diamond, P.E.
Vice President

Attachments

P:\129\32\00\Word\Reports\WPAP-EXC\240910a1.docx



UTSA HABITAT CONSERVATION PLAN

Recharge Zone Exception Request

September 2024



Transportation | Water Resources | Land Development | Surveying | Environmental

UTSA HABITAT CONSERVATION PLAN

Recharge Zone Exception Request



Jason T. Diamond
9-16-24

September 2024

**EDWARDS AQUIFER
APPLICATION COVER
PAGE (TCEQ-20705)**

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with [30 TAC 213](#).

Administrative Review

1. [Edwards Aquifer applications](#) must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name:				2. Regulated Entity No.:			
3. Customer Name:				4. Customer No.:			
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification		Extension	<input checked="" type="radio"/> Exception		
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	<input checked="" type="radio"/> AST	<input checked="" type="radio"/> EXP	EXT
					Technical Clarification	Optional Enhanced Measures	
7. Land Use: (Please circle/check one)	Residential		<input checked="" type="radio"/> Non-residential		8. Site (acres):		
9. Application Fee:			10. Permanent BMP(s):				
11. SCS (Linear Ft.):			12. AST/UST (No. Tanks):				
13. County:			14. Watershed:				

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	—
Region (1 req.)	—	—	—
County(ies)	—	—	—
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___ Barton Springs/ Edwards Aquifer ___ Hays Trinity ___ Plum Creek	___ Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___ Austin ___ Buda ___ Dripping Springs ___ Kyle ___ Mountain City ___ San Marcos ___ Wimberley ___ Woodcreek	___ Austin ___ Bee Cave ___ Pflugerville ___ Rollingwood ___ Round Rock ___ Sunset Valley ___ West Lake Hills	___ Austin ___ Cedar Park ___ Florence ___ Georgetown ___ Jerrell ___ Leander ___ Liberty Hill ___ Pflugerville ___ Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___ Trinity-Glen Rose	___ Edwards Aquifer Authority	___ Kinney	___ EAA ___ Medina	___ EAA ___ Uvalde
City(ies) Jurisdiction	___ Castle Hills ___ Fair Oaks Ranch ___ Helotes ___ Hill Country Village ___ Hollywood Park ___ San Antonio (SAWS) ___ Shavano Park	___ Bulverde ___ Fair Oaks Ranch ___ Garden Ridge ___ New Braunfels ___ Schertz	NA	___ San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Print Name of Customer/Authorized Agent

Jason T Diamond

09/16/2024

Signature of Customer/Authorized Agent

Date

****FOR TCEQ INTERNAL USE ONLY****

Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

**GENERAL INFORMATION
FORM (TCEQ-0587)**

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Jason T. Diamond, P.E.

Date: 09/16/2024

Signature of Customer/Agent:

Jason T. Diamond

Project Information

1. Regulated Entity Name: UTSA Habitat Conservation Plan
2. County: Bexar
3. Stream Basin: Leon Creek
4. Groundwater Conservation District (If applicable): Edwards Auifer Authority
5. Edwards Aquifer Zone:
☒ Recharge Zone
☐ Transition Zone
6. Plan Type:
☐ WPAP
☐ SCS
☐ Modification
☐ AST

☐ UST

☒ Exception Request

7. Customer (Applicant):

Contact Person: Corrina Green

Entity: The University of Texas at San Antonio

Mailing Address: One UTSA Circle

City, State: San Antonio, TX

Zip: 78249

Telephone: (210) 458-4803

FAX: _____

Email Address: corrina.green@utsa.edu

8. Agent/Representative (If any):

Contact Person: Jason T. Diamond, P.E.

Entity: Pape-Dawson Consulting Engineers, LLC.

Mailing Address: 2000 NW Loop 410

City, State: San Antonio, Texas

Zip: 78213

Telephone: (210) 375-9000

FAX: (210) 375-9010

Email Address: Jdiamond@pape-dawson.com

9. Project Location:

☒ The project site is located inside the city limits of San Antonio.

☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.

☐ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

From TCEQ's Regional office, head north on Judson Road approximately 2.5 miles to Loop 1604. Turn left onto 1604 and travel west approximately 14.3 miles to La Cantera Parkway and turn left. Travel south onto UTSA campus. Site locations are relatively south and east of Peace Circle and James Bauerle Rd intersection.

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

☒ Project site boundaries.

☒ USGS Quadrangle Name(s).

☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).

☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.**
Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
- ☒ Survey staking will be completed by this date: when advised by TCEQ of site visit
14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
- ☒ Area of the site
 - ☐ Offsite areas
 - ☐ Impervious cover
 - ☐ Permanent BMP(s)
 - ☒ Proposed site use
 - ☒ Site history
 - ☐ Previous development
 - ☐ Area(s) to be demolished
15. Existing project site conditions are noted below:
- ☒ Existing commercial site
 - ☐ Existing industrial site
 - ☐ Existing residential site
 - ☐ Existing paved and/or unpaved roads
 - ☐ Undeveloped (Cleared)
 - ☐ Undeveloped (Undisturbed/Uncleared)
 - ☒ Other: sensitive feature buffer

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
 - (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
 - (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
 - (4) The use of sewage holding tanks as parts of organized collection systems; and
 - (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
 - (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☐ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
 - (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

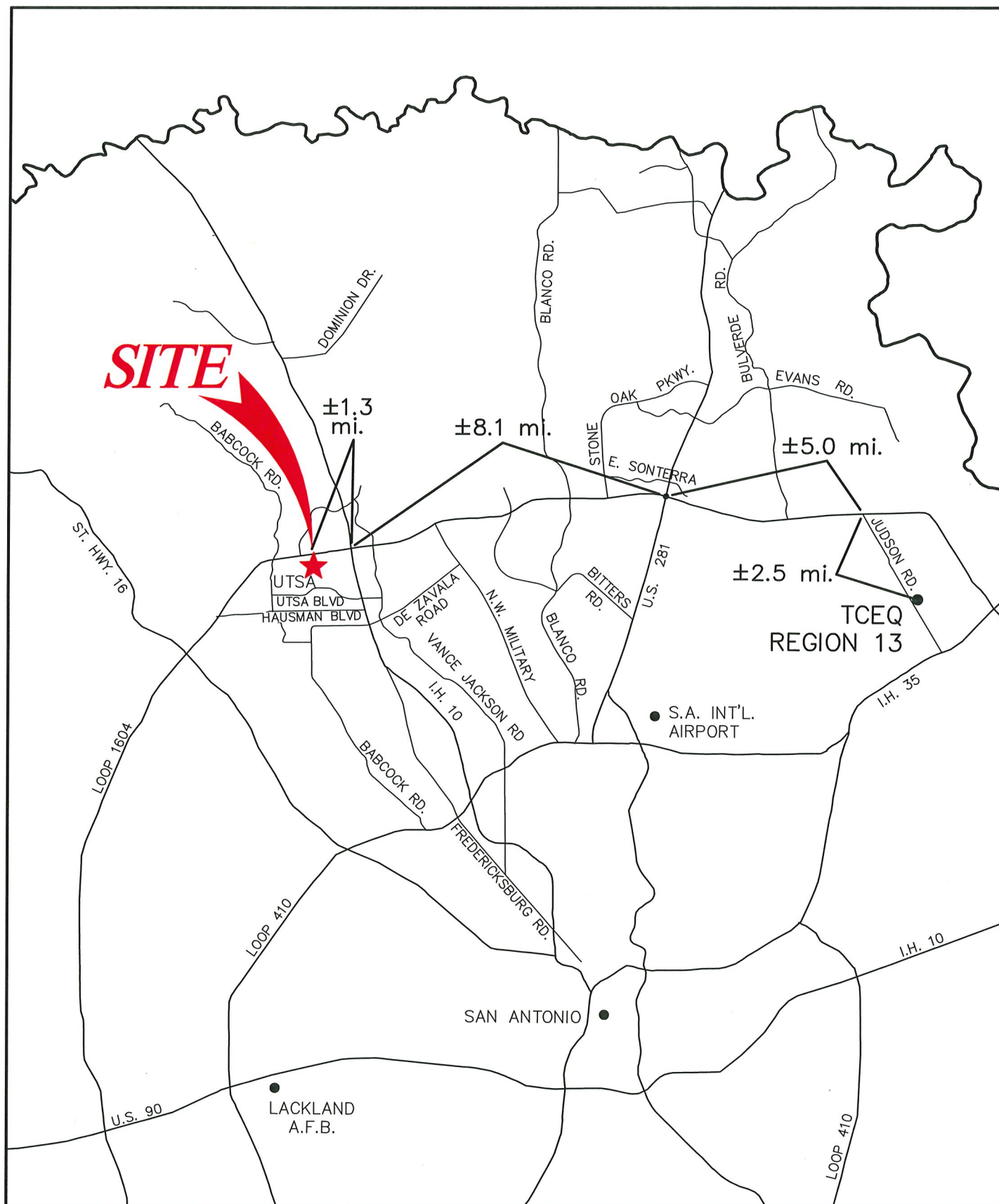
Administrative Information

18. The fee for the plan(s) is based on:

- ☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - ☒ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - ☐ A request for an extension to a previously approved plan.
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- ☒ TCEQ cashier
 - ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 - ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

ATTACHMENT A

UTSA HABITAT CONSERVATION PLAN
Recharge Zone Plan Exception Request



Pape-Dawson Engineers, Inc.

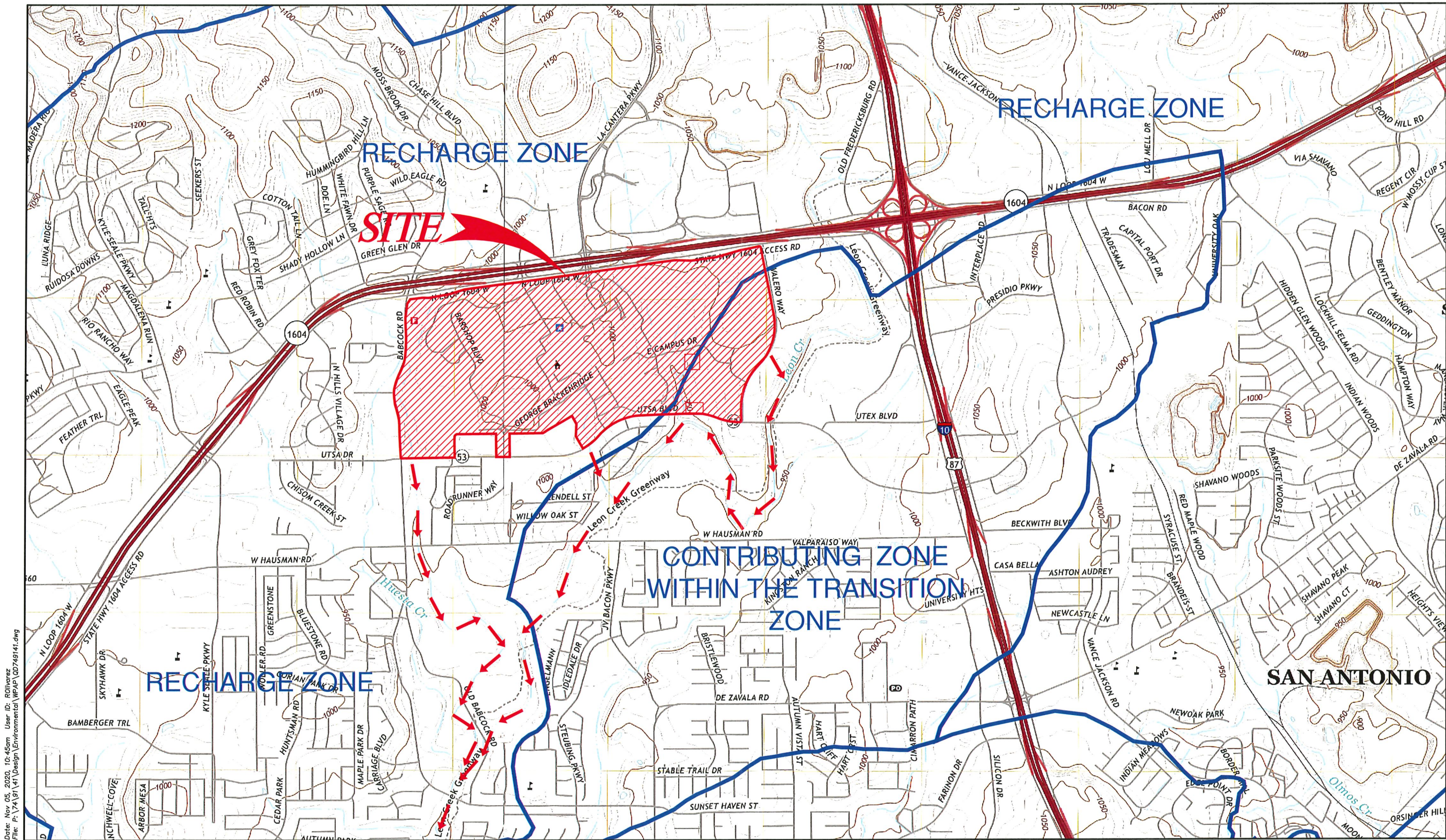
Date: Nov 05, 2020, 10:46am User ID: ROLivarez
File: P:\74\91\41\Design\Environmental\WPAP\RM749141.dwg

ATTACHMENT A
Road Map

ATTACHMENT B

UTSA HABITAT CONSERVATION PLAN
Recharge Zone Plan Exception Request


SCALE: 1" = 2000'



Date: Nov 05, 2020, 10:45am User ID: R011varex
File: P:\74\91\4\1\Design\Environmental\WPAP\00749141.dwg

GENERAL LOCATION MAP - CASTLE HILLS, TX QUAD;
HELOTES, TX QUAD
DRAINAGE FLOW → → →
Pape-Dawson Engineers, Inc.

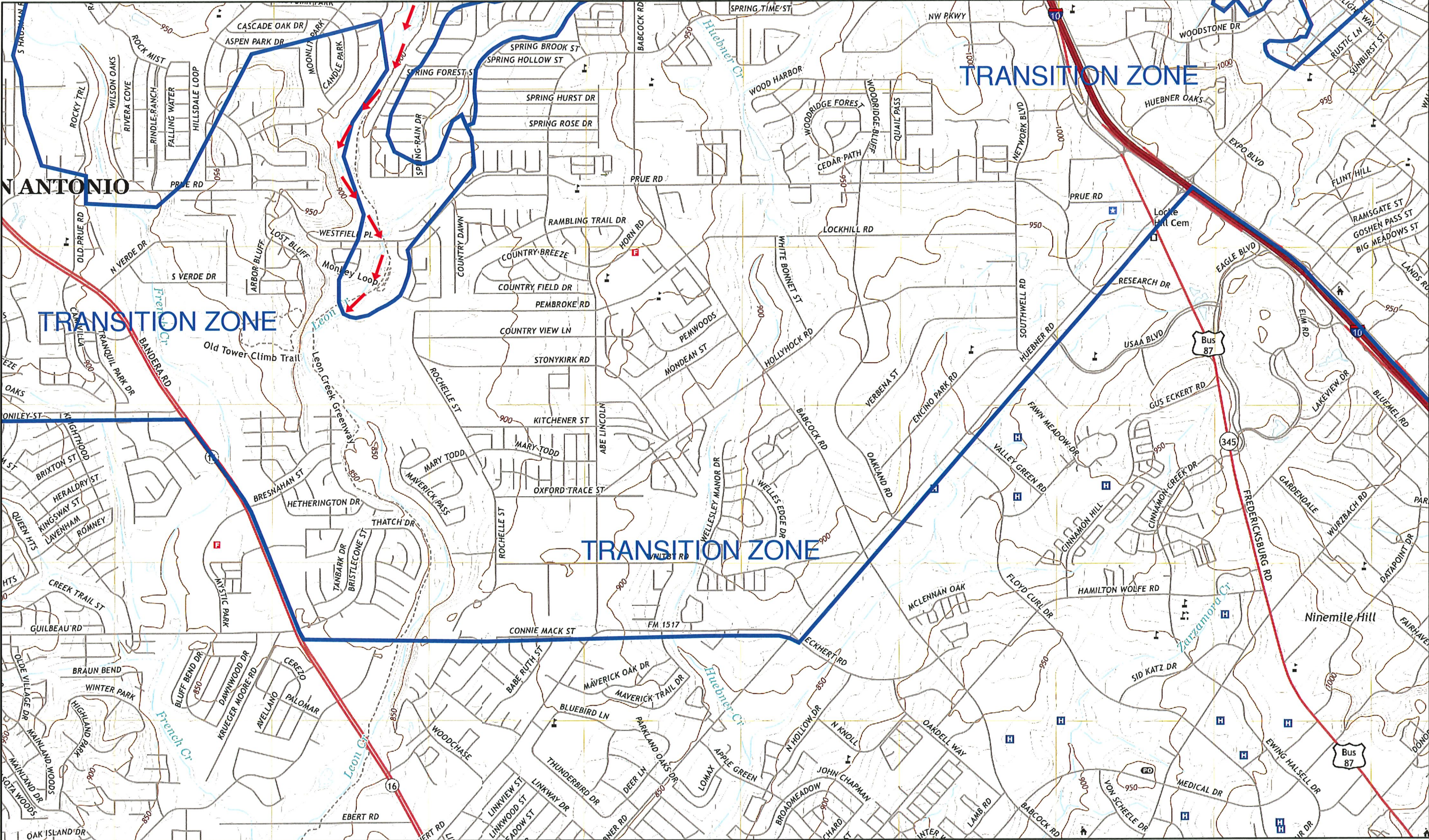
MATCHLINE See Sheet 2 of 2

USGS/EDWARDS RECHARGE ZONE MAP
Sheet 1 Of 2
ATTACHMENT B

UTSA HABITAT CONSERVATION PLAN
Recharge Zone Plan Exception Request


SCALE: 1" = 2000'

MATCHLINE See Sheet 1 of 3



GENERAL LOCATION MAP - CASTLE HILLS, TX QUAD;
HELOTES, TX QUAD
DRAINAGE FLOW → → →
Pape-Dawson Engineers, Inc.

ATTACHMENT C

UTSA HABITAT CONSERVATION PLAN

Recharge Zone Exception Request

Attachment C – Project Description

The University of Texas at San Antonio is a college campus located south of Loop 1604, west of Valero Way, and east of Hausman Rd. in San Antonio, Bexar County, Texas. The campus has ongoing construction in accordance with the approved UTSA Masterplan – 2020 WPAP MOD (EAPP ID 13001257). There are multiple naturally occurring sensitive features on the campus with existing feature buffers. The geologic assessment included in the 2020 WPAP MOD has been included with this exception application for reference. On June 9, 2023, TCEQ approved the reduced feature buffer area of feature F-21 located approx. 500 ft southeast of Barshop Blvd and Margaret Tobin Ave in the northwest area of campus (EAPP ID No. 13001739).

This UTSA Habitat Conservation Plan exception request is being submitted to approve disturbance within the feature buffers of five (5) naturally occurring sensitive features as part of a collaboration with the University of Texas at San Antonio on a project that aims to create an endangered species karst preserve on campus. Understanding how many karst features on the campus are occupied by listed species, requires excavation of features using heavy equipment (backhoe with a breaker/bucket) or hand excavation. This application proposes regulated activity of approximately 0.25 ac total to access and open these features in such a manner that allows survey within them for listed species. Mechanical excavation is proposed on features F-21, F-48, F-50, and F-65. Feature F-64 is proposed to be hand excavated. Features F-48 and F-50 are located in the undeveloped northeast portion of UTSA Campus near Loop 1604. Feature F-21 is located approximately 500 ft southeast of Barshop Blvd and Margaret Tobin Ave in the northwest area of campus. Features F-64 and F-65 are located in the north central portion of campus. Feature F-64 is located west of Thomas Devine Ave between the North Paseo Building and the Tobin Ave Parking Garage. Feature F-65 is located in the northwest corner of the intersection of Thomas Devine Ave and Devine Ave. Specific locations of the features:

- **F-21:** 29.58535 N, -98.62632 W
- **F-48:** 29.58813 N, -98.61385 W
- **F-50:** 29.58752 N, -98.61131 W
- **F-64:** 29.58634 N, -98.61996 W
- **F-65:** 29.58623 N, -98.618084 W

No additional disturbance or impervious cover is proposed within these sites. Equivalent water quality protection will be maintained as surface drainage within the existing buffer area will be preserved and site disturbance will be limited. Refer to included exhibits for proposed temporary BMPs for protection of the buffers in each excavation area.

Upon completion of research, the buffers and features will be returned to pre-excavation status as much as possible without dumping any fines inside as required by United States Fish and Wildlife Service (USFWS) karst protocols. See excerpt below for their requirements for restoring the features.

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Restoring Excavated Features

After all necessary biological surveys have been conducted, features, caves, or boreholes should not necessarily be refilled but should remain in, or be returned to, a state most beneficial for the karst ecosystem, which may include but is not limited to: (1) returning the entrance to its pre-excavated condition (to reduce air flow if the original entrance was small) or (2) installing a cave gate to prevent trespassing or large mammal access (for example, feral hogs).

Features that are excavated into caves should usually be left open enough that human access for biological surveys is possible. However, openings larger than 3.3 ft (1 m) to relatively small caves may be detrimental to the karst ecosystem by increasing drying and temperature fluctuation. Therefore, we recommend that those features with smaller openings be covered with a boulder or other natural materials equivalent in permeability to what was excavated.

**GEOLOGIC ASSESSMENT
FORM (TCEQ-0585)**

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Henry E. Stultz III

Telephone: 210-375-9000

Date: *July 6, 2020*

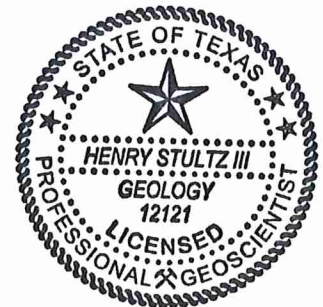
Fax: 210-375-9090

Representing: Pape-Dawson Engineers, Inc., Texas Board of Professional Geoscientists No. 50351
(Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: UNIVERSITY OF TEXAS AT SAN ANTONIO



Section 1.01 Project Information

1. Date(s) Geologic Assessment was performed: May - November 2002; August 2009; April 2011; October 2017; January 2019; **June 3, 16, 17, and 23, 2020**

2. Type of Project:

☒ WPAP
☐ SCS

☐ AST
☐ UST

3. Location of Project:

☒ Recharge Zone
☐ Transition Zone
☐ Contributing Zone within the Transition Zone

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

4. ☒ **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Anhalt clay, 0 to 2 percent slopes (Ca)	D	2-3
Crawford, stony and Bexar soils, 0 to 5 percent slopes (Cb)	D	1-2
Krum clay, 1 to 5 percent slopes (Kr)	C	3-5
Lewisville silty clay, 1 to 3 percent slopes (LvB)	B	1-3
Patrick soils, 1 to 3 percent slopes, rarely flooded (PaB)	B	1-7
Eckrant cobbly clay, 1 to 8 percent slopes (TaB)	D	1-2
Eckrant very cobbly clay, 5 to 15 percent slopes (TaC)	D	1-2

* Soil Group 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.

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
- Applicant's Site Plan Scale: 1" = 300'
- Site Geologic Map Scale: 1" = 300'
- Site Soils Map Scale (if more than 1 soil type): 1" = 1500'

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

9. Method of collecting positional data:

- ☒ Global Positioning System (GPS) technology.
- ☐ Other method(s). Please describe method of data collection:

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

☐ Geologic or manmade features were not discovered on the project site during the field investigation.

13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

☒ There is one (1) well present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

☐ The well is not in use and have been properly abandoned.

☐ The well is not in use and will be properly abandoned.

☒ The well is in use and comply with 16 TAC Chapter 76.

☐ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

ATTACHMENT A

GEOLOGIC ASSESSMENT TABLE										PROJECT NAME: UNIVERSITY OF TEXAS AT SAN ANTONIO									
LOCATION			FEATURE CHARACTERISTICS										EVALUATION		PHYSICAL SETTING				
1A FEATURE ID	1B LATITUDE	1C LONGITUDE	2A FEATURE TYPE	2B POINTS	3 FORMATION	4 DIMENSIONS (FEET)			5 TREND (DEGREES)	5A DOM	6 DENSITY (NO/FT)	7 APERTURE (FEET)	8A INFILLING	8B RELATIVE INFILTRATION RATE	9 TOTAL	10 SENSITIVITY	11 CATCHMENT AREA (ACRES)	12 TOPOGRAPHY	
						X	Y	Z		10						<40	<1.6		
S-1	29.58241	-98.61502	MB	30	Kep/Kbu Kdr/Kgt								F,C	20	50	50	X	Hillside	
S-2	29.58424	-98.63056	MB	30	Kep/Kbu Kdr/Kgt								F,C	20	50	50	X	Hillside	
S-3	29.57982	-98.62000	MB	30	Kep/Kbu Kdr/Kgt								F,C	20	50	50	X	Hillside	
S-4	29.58321	-98.62783	F	20	Kep/Kdr				N75°E				F	5	25	25	X	Hillside	
S-5	29.58451	-98.61281	F	20	Kep-Kgt/ Kbu-Kef				N50°E	10			F	5	35	35	X	Hillside	
S-6	29.58262	-98.62073	F	20	Kep/Kdr-Kgt				N21°W				F	5	25	25	X	Hillside	
S-7	29.58058	-98.62615	F	20	Kdr/Kbu kgt				N55°E	10			F	5	35	35	X	Hillside	
S-8	29.58085	-98.63159	CD	5	Kdr	12.0	12.0	2.0					F,O	10	15	15	X	Hillside	
19-S-12	29.58480	-98.62884	CD	5	Kep	11	16	1					F	10	15	15	X	Hillside	
09-F-2*	29.58510	-98.58530	CD	5	Kep	6	6	1					CV	15	20	20	X	Hilltop	
09-F-3**	29.58530	-98.61948	SC	20	Kep	2.25	2.17	9.5					F	5	25	X	X	Hilltop	
F-0*	29.58024	-98.61828	CD	5	Kep	3.5	3.5	0.5					F	10	15	15	X	Hilltop	
F-1	29.58526	-98.62299	CD	5	Kep	3.0	3.0	0.5					F	10	15	15	X	Hillside	
F-2	29.58523	-98.62307	CD	5	Kep	9.0	4.0	0.8					F	10	15	15	X	Hillside	
F-3	29.58502	-98.62312	CD	5	Kep	4.0	4.0	0.8					F	10	15	15	X	Hillside	
F-4	29.58457	-98.62282	CD	5	Kep	12.0	9.0	0.8					F	10	15	15	X	Hillside	
F-5a*	29.58213	-98.62944	CD	5	Kdr	10.0	10.0	0.5					F	10	15	15	X	Hilltop	
F-5b*	29.58221	-98.62945	CD	5	Kdr	10.0	10.0	0.5					F	10	15	15	X	Hilltop	
F-5c*	29.58224	-98.62934	CD	5	Kdr	10.0	10.0	0.5					F	10	15	15	X	Hilltop	
F-5d*	29.58227	-98.62928	CD	5	Kdr	10.0	10.0	0.5					F	10	15	15	X	Hilltop	
F-6*	29.58173	-98.62972	CD	5	Kdr	6.0	6.0	0.8					F	10	15	15	X	Hilltop	
F-7	29.58522	-98.62991	CD	5	Kep	3.5	3.5	0.5					F	10	15	15	X	Floodplain	
F-8	29.58607	-98.62938	CD	5	Kep	3.5	3.5	0.5					F	10	15	15	X	Floodplain	
F-9*	29.58645	-98.62908	CD	5	Kep	2.0	2.0	0.5					F	10	15	15	X	Floodplain	
F-10	29.58630	-98.62847	CD	5	Kep	5.0	5.0	0.5					F	10	15	15	X	Hilltop	
F-11	29.58756	-98.61002	SW	30	Kep	40.0	15.0	1.5					F	40	70	70	X	Drainage	
F-12*	29.58655	-98.62752	CD	5	Kep	4.5	4.5	1.0					F	10	15	15	X	Hilltop	
F-12a*	29.58653	-98.62754	CD	5	Kep	9.0	4.5	1.0					N	15	20	20	X	Hilltop	
F-12b*	29.58643	-98.62750	CD	5	Kep	0.5	0.5	0.8					N	15	20	20	X	Hilltop	
F-12c*	29.58649	-98.62763	CD	5	Kep	3.0	3.0	0.5					C	15	20	20	X	Hilltop	
F-13	29.58629	-98.62704	C	30	Kep	4.0	2.0	13.0	N50°E	10			N	40	80	80	X	Hilltop	
F-14	29.58641	-98.62718	CD	5	Rep	7.0	7.0	0.5					F	10	15	15	X	Hilltop	
F-15	29.58680	-98.62688	CD	5	Kep	6.0	6.0	0.5					F	10	15	15	X	Hilltop	
F-16	29.58694	-98.62402	CD	5	Kep	5.0	3.0	0.9					F	10	15	15	X	Hilltop	

GEOLOGIC ASSESSMENT TABLE										PROJECT NAME: UNIVERSITY OF TEXAS AT SAN ANTONIO									
LOCATION										FEATURE CHARACTERISTICS									
1A FEATURE ID	1B LATITUDE	1C LONGITUDE	2A FEATURE TYPE	2B POINTS	3 FORMATION	4 DIMENSIONS (FEET)			5 TREND (DEGREES)	5A DOM	6 DENSITY (NOFT)	7 APERTURE (FEET)	8A INFILLING	8B RELATIVE INFILTRATION RATE	9 TOTAL		10 SENSITIVITY	11 CATCHMENT AREA (ACRES)	12 TOPOGRAPHY
						X	Y	Z		10							<40	<1.6	>1.6
F-17	29.58593	-98.62778	CD	5	Kep	5.0	5.0	0.6					F	10	15	15		X	Hilltop
F-18	29.58589	-98.62812	CD	5	Kep	1.0	0.4	1.0					F,N	10	15	15		X	Hilltop
F-19a	29.58438	-98.62860	CD	5	Kep	5.0	4.0	0.5					F	25	30	30		X	Hilltop
F-19b	29.58440	-98.62897	CD	5	Kep	3.0	3.0	0.5					C	25	30	30		X	Hilltop
F-19c*	29.58368	-98.62842	CD	5	Kep	3.0	3.0	0.5					C	25	30	30		X	Hilltop
F-20*	29.58508	-98.62904	CD	5	Kep	1.0	1.0	1.0					F,N	10	15	15		X	Hilltop
F-21	29.58535	-98.62632	SH	20	Kep	100.0	80.0	2.5					F	40	60	60		X	Hilltop
F-22*	29.58153	-98.62392	CD	5	Kdr	6.0	5.0	0.5					F	10	15	15		X	Hilltop
F-23	29.58780	-98.61010	CD	5	Kep	1.0	1.0	1.0					F	10	15	15		X	Hilltop
F-24	29.58783	-98.60995	CD	5	Kep	9.0	6.0	0.5					F	10	15	15		X	Hilltop
F-25	29.58767	-98.60893	SF	20	Kep	0.5	0.2	0.5	N70°W				O	20	40	40		X	Hilltop
F-26	29.58554	-98.61139	CD	5	Kdr	4.0	4.0	0.6					F	10	15	15		X	Hilltop
F-27*	29.58398	-98.60752	CD	5	Kbu	4.0	4.0	0.7					F	10	15	15		X	Hilltop
F-28	29.58784	-98.61889	CD	5	Kep	4.0	1.0	0.6					F	10	15	15		X	Hilltop
F-29	29.58761	-98.61867	CD	5	Kep	5.0	4.0	0.5					F	10	15	15		X	Hilltop
F-30	29.58813	-98.61596	CD	5	Kep	6.0	4.0	0.6					F	10	15	15		X	Hilltop
F-31	29.58820	-98.61581	CD	5	Kep	9.0	6.0	0.9					F	10	15	15		X	Hilltop
F-32	29.58801	-98.61565	CD	5	Kep	0.4	0.4	0.5					F	0	5	5		X	Hilltop
F-33	29.58789	-98.61408	MB	30	Kep	1.0	1.0	12.0					N	40	70	70		X	Hilltop
F-34	29.58764	-98.61465	CD	5	Kep	6.0	6.0	1.5					F	10	15	15		X	Hilltop
F-35	29.58753	-98.61539	CD	5	Kep	6.0	6.0	0.5					F	10	15	15		X	Hilltop
F-36	29.58749	-98.61565	CD	5	Kep	10.0	6.0	1.0					F	10	15	15		X	Hilltop
F-37*	29.58177	-98.60891	CD	5	Kbu	5.0	5.0	0.9					F	10	15	15		X	Hilltop
F-38	29.58160	-98.61100	CD	5	Kbu	15.0	10.0	1.5					F	10	15	15		X	Streambed
F-39	29.58346	-98.61458	SFZ	30	Kep	50.0	20.0	0.1	N30°E		3/4'	0.13	F	20	50	50		X	Streambed
F-40	29.58368	-98.61377	SC	20	Kep	1.0	0.5	2.5					N,C	30	50	50		X	Hillside
F-41	29.58094	-98.61159	CD	5	Kbu	4.0	1.5	0.9					F	10	15	15		X	Hillside
F-42a	29.58396	-98.61402	C	30	Kep	1.5	1.0	9.0	N46°E	10			N	40	80	80		X	Floodplain
F-42b	29.58396	-98.61396	SW	30	Kep	75.0	30.0	4.0	N48°E	10			F,O	40	80	80		X	Floodplain
F-43	29.58521	-98.61361	C	30	Kep	30.0	4.0	14.0	N50°E	10			N	50	90	90		X	Hilltop
F-44	29.58562	-98.61383	SF	20	Kep	1.5	0.3	1.0	N50°E	10			F,O	15	45	45		X	Hilltop
F-45	29.58606	-98.61430	SFZ	30	Kep	20.0	10.0	0.5	N50°E	10			C	20	60	60		X	Hillside
F-46	29.58668	-98.61431	CD	5	Kep	1.5	0.3	1.0					O	10	15	15		X	Hillside
F-47	29.58770	-98.61425	CD	5	Kep	5.0	3.5	0.5					F	10	15	15		X	Hillside
F-48	29.58813	-98.61385	SH	20	Kep	30.0	30.0	10.0	N50°E	10			C	50	80	80		X	Hilltop
F-49	29.58734	-98.61144	MB	30	Kep	1.0	1.0	12.0					N	40	70	70		X	Hilltop

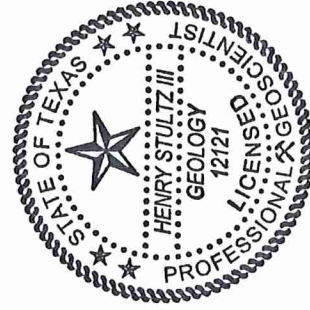
GEOLOGIC ASSESSMENT TABLE										PROJECT NAME: UNIVERSITY OF TEXAS AT SAN ANTONIO									
LOCATION				FEATURE CHARACTERISTICS										EVALUATION			PHYSICAL SETTING		
1A FEATURE ID	1B* LATITUDE	1C* LONGITUDE	2A FEATURE TYPE	2B POINTS	3 FORMATION	4 DIMENSIONS (FEET)			5 TREND (DEGREES)	5A DOM	6 DENSITY (NO/FT)	7 APERTURE (FEET)	8A INFILLING	8B RELATIVE INFILTRATION RATE	9 TOTAL	10 SENSITIVITY	11 CATCHMENT AREA (ACRES)	12 TOPOGRAPHY	
						X	Y	Z		10						<40	>40	<1.6	>1.6
F-50	29.58752	-98.61131	SH	20	Kep	50.0	40.0	6.0	N60°E	10			C	40	70	70	X	X	Hilltop
F-51	29.58731	-98.61241	SH	20	Kep	2.5	1.5	3.0					C	40	60	60	X	X	Hilltop
F-52	29.58811	-98.61151	CD	5	Kep	3.5	3.5	1.5					F	10	15	15	X	X	Hilltop
F-53	29.58812	-98.61046	CD	5	Kep	7.0	5.0	0.5					F	10	15	15	X	X	Hilltop
F-54	29.58829	-98.61045	CD	5	Kep	5.0	3.5	0.6					F	10	15	15	X	X	Hilltop
F-55	29.58880	-98.61006	CD	5	Kep	6.0	6.0	1.0					F	10	15	15	X	X	Hilltop
F-56	29.57947	-98.63115	SFZ	30	Kbu	75.0	35.0	0.1					N,C	5	35	35		X	Floodplain
F-57*	29.58066	-98.62759	CD	5	Kdr	5.0	5.0	0.6					F	10	15	15	X	X	Hillside
F-58	29.58175	-98.62847	CD	5	Kdr	5.5	1.5	0.5					F	10	15	15	X	X	Hillside
F-59	29.58726	-98.62258	SH	20	Kep	25.0	25.0	5.5	N60°E	10			N	45	75	75	X	X	Hilltop
F-60*	29.57910	-98.62367	CD	5	Kbu	4.0	4.0	1.5					F	10	15	15	X	X	Hilltop
F-61	29.58803	-98.61389	CD	5	Kep	4.0	3.5	1.0					F	10	15	15	X	X	Hilltop
F-62	29.58740	-98.61347	C	30	Kep	6.0	3.0	50.0	N50°E	10			N	50	90	90	X	X	Hilltop
F-63	29.58768	-98.61377	C	30	Kep	12.0	4.0	18.0	N40°E	10			N,C	50	90	90	X	X	Hilltop
F-64	29.58634	-98.61996	SH	20	Kep	45.0	30.0	9.0					C	50	70	70	X	X	Hilltop
F-65	29.58622	-98.61807	SH	20	Kep	6.0	6.0	2.0					C	50	70	70	X	X	Hilltop
F-67	29.58423	-98.63049	SFZ	30	Kep	1700	50.0	0.5	N40°E	10	1/2'	0.1	F,O	20	60	60	X	X	Floodplain
F-68	29.58379	-98.61379	SFZ	30	Kep	4000	40.0	0.5	N40°E	10	1/1'	0.2	F,O	30	70	70	X	X	Floodplain
F-71	29.58818	-98.60768	MB	30	Kep	0.3	0.3	320.0					N	50	80	80	X	X	Hilltop

DATUM: NAD 83 *GRAYED Features are located within CHU-9 and were not re-evaluated during this Geologic Assessment. See Attachment C for more information.

* Features identified in previous assessments that were not observed during this assessment. ** Features not classified as sensitive, although previous assessments classified these features as sensitive or possibly sensitive.

2A TYPE		2B POINTS		8A INFILLING		12 TOPOGRAPHY	
TYPE							
C	Cave	30	N	None, exposed bedrock		Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed	
SC	Solution cavity	20	C	Coarse - cobbles, breakdown, sand, gravel			
SF	Solution-enlarged fracture(s)	20	O	Loose or soft mud or soil, organics, leaves, sticks, dark colors			
F	Fault	20	F	Fines, compacted clay-rich sediment, soil profile, gray or red colors			
O	Other natural bedrock features	5	V	Vegetation. Give details in narrative description			
MB	Manmade feature in bedrock	30	FS	Flowstone, cements, cave deposits			
SW	Swallow hole	30	X	Other materials			
SH	Sinkhole	20					
CD	Non-karst closed depression	5					
Z	Zone, clustered or aligned features	30					

I have read, I understand, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.



[Signature]

Date July 6, 2020

ATTACHMENT B

UNIVERSITY OF TEXAS AT SAN ANTONIO
Stratigraphic Column

Period	Epoch	Group	Formation	Member	Thickness	Lithology	Hydro- logic Unit	Hydrostrati- graphic Unit	Hydrologic Function	Porosity	Cavern Development
Cretaceous	Late Cretaceous	Eagle Ford	--	--	20-40	Brown, flaggy, sandy shale and argillaceous limestone; iron nodules; <i>Inoceramus</i> sp., shark teeth, and fossil fragments; some freshly fractured flagstone emits a petroliferous odor	Upper confining unit to the Edwards aquifer	--	Confining	IP, FR, BP	None
		Washita	Buda Limestone	--	40-50	Buff to light gray, dense nodular mudstone and wackestone containing calcite-filled veins and bluish dendrites; porcelainous limestone that weathers from a smooth gray to grayish white; nodular surface has a conchoidal fracture; commonly contains iron nodules, iron staining, and shell fragments		--	Confining	FR	Minor surface karst
			Del Rio Clay	--	40-50	Fossiliferous blue-green to yellow-brown clay with thin beds of packstone; contains iron nodules; <i>Ilymatogyra arietina</i>		--	Confining	None	None
			Georgetown	--	20-30	Reddish-brown, gray to light tan, shaley mudstone and wackestone; commonly contains black dendrites, iron nodules, and iron staining; often fossiliferous with <i>Plesioturritiles brazoensis</i> , <i>Waconella wacoensis</i> common	Edwards Aquifer	I	Confining	MO	None
	Early Cretaceous	Person	Cyclic and marine, undivided	Leached and collapsed, undivided	80-90	Pelletal limestone; ranges from chalk to mudstone and miliolid grainstone; thin to massive beds; some crossbedding evident; a packstone containing large caprinids is present near contact with the overlying Georgetown Formations; chert is common as beds and large nodules		II	Aquifer	MO, BU, VUG, BP, FR, CV	Many subsurface; might be associated with earlier karst development
					70-90	Hard, dense, recrystallized limestone; mudstone, wackestone, packstone, and grainstone; contains chert as beds and large nodules; heavily bioturbated with iron-stained beds; often stromatolitic; <i>Toucasia</i> sp. Often found above contact with the underlying regional dense member; <i>Montastrea roemeriana</i> and oysters rare		III	Aquifer	BU, VUG, FR, BP, BR, CV	Extensive lateral development; large rooms
					20-24	Dense, shaly limestone; oyster shell mudstone and iron wackestone; wispy iron staining; chert nodules rarer than in the rest of the chert-bearing Edwards Group		IV	Confining	FR, CV	Very few; only vertical fracture enlargement
		Kainer	Grainstone		40-50	Hard, dense limestone that consists mostly of a tightly cemented miliolid skeletal fragment grainstone; contains interspersed chalky mudstone and wackestone; chert as beds and nodules; crossbedding and ripple marks are common primarily at the contact with the overlying regional dense bed		V	Aquifer	IP, IG, BU, FR, BP, CV	Few
					40-50	Highly altered crystalline limestone and chalky mudstone with occasional grainstone associated with tidal channels; chert as beds and nodules, boxwork molds are common, matrix recrystallized to a coarse grain spar; intervals of collapse breccia and travertine deposits		VI	Aquifer	IG, MO, VUG, FR, BR, CV	Probably extensive cave development
					90-120	Hard, dense to granular, dolomitic limestone; chert as beds and nodules (absent in lower 20 ft); <i>Toucasia</i> sp. abundant; lower three-fourths composed of sucrosic dolomites and grainstones with hard, dense limestones interspersed; upper one-fourth composed mostly of hard, dense mudstone, wackestone, packstone, grainstone, and recrystallized dolomites with bioturbated beds		VII	Aquifer	IP, IC, IG, MO, BU, VUG, FR, BP, CV	Caves related to structure or bedding planes
					40-50	Moderately hard, shaly, nodular, burrowed mudstone to miliolid grainstone that also contains dolomite; contains dark, spherical textural features known as black rotund bodies; <i>Ceratostreon texana</i> , <i>Caprina</i> sp., miliolids, and gastropods		VIII	Aquifer, confining unit in areas without caves	IP, MO, BU, BP, FR, CV	Large lateral caves at surface

Source: Clark, Golab, and Morris (2016); Cavern development modified from Stein and Ozuna (1995). Porosity types - Fabric selective: IP, interparticle porosity; IG, intergranular porosity; IC, intercrystalline porosity; SH, shelter porosity; MO, moldic porosity; BU, burrowed porosity; FE, fenestral; BP, bedding plane porosity. Not fabric selective: FR, fracture porosity; CH, channel porosity; BR, breccia; VUG, vug porosity; CV, cave porosity.

ATTACHMENT C

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

SUMMARY

The University of Texas at San Antonio (UTSA) site is located in Bexar County, Texas. The project site encompasses an area that is bounded by Loop 1604 to the north, UTSA Boulevard to the south, Babcock Road to the west, and Valero Way to the East. The site is comprised of gently undulating topography, with surface waters draining to the south into two tributaries of Leon Creek.

Pape-Dawson and others have conducted previous mapping of portions of the project site in the past. These Geologic Assessment reports were reviewed during preparation of this report, and previously identified features were re-evaluated during the site visit. This report presents only those features that are still present and in accordance with *Instructions for Geologists for Geologic Assessments in the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585 Instructions)*.

Twenty-one (21) naturally occurring sensitive features were identified on site in previous Geologic Assessments. Based on the results of the field survey conducted during this geologic assessment in accordance with *Instructions for Geologists for Geologic Assessments in the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585 Instructions)*, no additional naturally occurring sensitive features were identified on site. Based on the frequency distribution of sensitive features, the overall potential for fluid migration to the Edwards Aquifer for the site is moderate (particularly in undeveloped areas within the Person Formation).

Excluded from this assessment are the areas where impervious cover prevents observation of geologic outcrops or features. These areas are shown on the Site Geologic Map, labeled as impervious cover. Additionally, the area within Critical Habitat Unit (CHU-9) is also excluded from this assessment as sensitive features within CHU-9 are protected by a buffer that exceeds compliance with *TCEQ RG-348 Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices / Chapter 5 and RG-348 Addendum*. Additional features identified in this area would not result in increasing the size of the existing buffer area.

Buffers for sensitive features outside of CHU-9 were created during previous Water Pollution Abatement Plan (WPAP) submittals to TCEQ. None of the previously approved sensitive feature buffers were modified during this geologic assessment.

SITE GEOLOGY

The subject site is located within the cyclic and marine (Kepcm) and leached and collapsed (Keplc) members of the Person formation, the Buda Limestone (Kbu), the Del Rio Clay (Kdr), and the Georgetown (Kgt) formation. These formations are described in further detail below:

- The Keplc is characterized by interbedded, iron-stained, massive and bioturbated limestone with abundant chert. Karst development within the Keplc is generally characterized by large

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

sinkholes. Caves often develop as large horizontal rooms.

- The Kepcm is characterized by a mudstone to pack stone miliolid grainstone, and chert. Karst development within the Kepcm is characterized by small sinkholes and caves developed as vertical shafts as well as lateral rooms.
- The Kbu is characterized by buff, light gray, dense mudstone. Karst development in the Kbu is generally minor.
- Kdr is a blue-green to yellow-brown waxy clay. Karst development within the Kdr does not occur.
- The Kgt formation is characterized by reddish-brown to light tan marly limestone. Karst development within the Kgt generally does not occur.

The predominant trend of faults in the vicinity of the site is approximately N55°E, based on faults identified during the previous mapping of the area.

Subsurface geotechnical, geophysical, hydrologic, and biological studies have been completed during the recent development of UTSA. Consequently, geologic formation outcropping, and features such as faults and man-made systems that were identified in previous geologic assessments have been assessed as new features in this geologic assessment.

FEATURE DESCRIPTIONS:

Features F-11, F-23 to F-26, F-30 to F-36, F-39, F-40, F-42a, F-42b, F-43 to F-55, and F-61 to F-63, are located within CHU-9 and were excluded from this geologic assessment, but are included in the Geologic Assessment table and on the Site Geologic Map for informational purposes.

Features 19-S-12, 19-F-2, F-0, F-4, F-5a, F-5b, F-5c, F-5d, F-6, F-9, F-12, F-12a, F-12b, F-12c, F-18, F-19a, F-19b, F-19c, F-20, F-22, F-27, F-37, F-56, F-57 and F-60 are non-sensitive features that were identified in previous Geologic Assessments that were not found during this Geologic Assessment and are presumed to be covered or destroyed due to development of UTSA infrastructure. Referenced features are included in the GA table and on the Site Geologic Map for informational purposes.

A description of the features observed onsite is provided below:

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

Feature S-1 and S-2 (multiple locations)

These man-made features are existing sewer lines that are partially located beneath pavement. The sewer lines have been trenched through bedrock and backfilled with a mix of fine and course fill material that may be more permeable than surrounding undisturbed areas. Therefore, the probability of rapid infiltration is intermediate.

Feature S-3 (multiple locations)

These man-made features are existing storm drain lines that are partially located beneath pavement. The storm drain lines have been trenched through bedrock and backfilled with a mix of fine and course fill material that may be more permeable than surrounding undisturbed areas. Therefore, the probability of rapid infiltration is intermediate.

Feature S-4

This feature is a hinge/interformational fault. Along the hinge portion of the fault, east of fault S-6, it displaces the Keplc and Kepcm. Along the interformational portion of the fault, west of fault S-6, it juxtaposes the Keplc to the northwest and the Kdr to the southeast. The fault was identified using aerial photographs and through field evidence. This fault is attributed to the regional activity associated with the Balcones Fault Zone. Approximately 60 feet of vertical displacement may have occurred along this fault on site. No areas of enhanced permeability along the fault were observed and an overall lack of field evidence suggests a low probability for rapid infiltration.

Feature S-5

This feature is an interformational fault that juxtaposes the Kepcm and Kgt to the northwest and the Kbu and Kef to the southeast. The fault was identified using aerial photographs and through field evidence. This fault is attributed to the regional activity associated with the Balcones Fault Zone. Approximately 90 feet of vertical displacement may have occurred along this fault on site. No areas of enhanced permeability along the fault were observed and an overall lack of field evidence suggests a low probability for rapid infiltration.

Feature S-6

This feature is an interformational fault that juxtaposes the Kepcm to the east and the Kdr and Kgt to the west. The fault was identified using aerial photographs and through field evidence. This cross fault is likely the secondary result of vertical displacement of faults S-4 and S-5. Approximately 30-50 feet of vertical displacement may have occurred along this fault on site. No areas of enhanced permeability along the fault were observed and an overall lack of field evidence suggests a low probability for rapid infiltration.

Feature S-7

This feature is an intraformational fault within the kdr. The fault was identified through subsurface studies for development of UTSA. These studies indicate that displacement of this fault is due to secondary stress associated with fault S-4. Less than 20 feet of vertical displacement may have occurred along this fault on site. No areas of enhanced permeability along the fault were observed

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

and an overall lack of field evidence suggests a low probability for rapid infiltration.

Features S-8, F-1 to F-4, F-7, F-8, F-10, F-14 to F-17, F-28, F-29, F-38, F-41, and F-58

These features are non-karst closed depressions caused by uplift and decay of tree roots, scour along drainage areas, or anthropogenic activities. The non-karst origin and lack of evidence of direct infiltration suggests a low probability of rapid infiltration.

Feature 09-F-03**

This feature is a solution cavity that has tightly packed clay at a depth of 3 feet below the ground surface. Initial discovery of this feature recommended additional evaluation. Representatives from Pape-Dawson, including a geologist, UTSA personnel, and a geologist from TCEQ met in the field on November 28, 2017 to re-evaluate 09-F-03. It was concluded at that meeting that 09-F-03 did not appear to have a hydrogeologic connection to the Edwards Aquifer and should be classified as non-sensitive. On December 21, 2017, the TCEQ issued a letter confirming this non-sensitive rating of the feature. Additionally, this feature is no longer observable as development as covered the feature. The probability of rapid infiltration is low.

Feature F-13

This feature initially consisted of a sinkhole measuring roughly 10' x 8' x 3.5'. Excavation through fractured rock using a rock bar and jackhammer exposed a portal into an open void measuring approximately 1' in diameter at a depth of approximately 3' below the surface. The portal occurs at the juncture between the ceiling and southern wall of a small shaft measuring roughly 4' long by 2' wide by 13' deep. A solution cavity continues downward from the base of the cave for an unknown distance but is humanly inaccessible. The cave is formed along fractures trending N50E and N68E. The probability of rapid infiltration is high.

Feature F-21

This feature is a sinkhole. It is located immediately northwest of the eastern end of Chisolm Hall dormitory. No excavation was attempted due to the size of the feature. Standing water in the sinkhole was observed during the course of investigations of other nearby features following heavy overnight rains. Standing water in the feature diminished faster than the background rate of dissipation. Therefore, the probability of rapid infiltration is high.

Feature F-56

This feature is a fractured rock outcrop in the bed of Maverick Creek measuring approximately 75' x 35' containing numerous slightly solution enlarged fractures. Since the lithology consists of Kgt, it is not considered to be a potential Edwards aquifer recharge feature. Therefore, the probability of rapid infiltration is low.

Feature F-59

This feature is a composite solution sinkhole with three solution cavity surface expressions located in an area measuring approximately 30' in diameter. Excavation of two cavities revealed humanly inaccessible solution cavities and solution-enlarged fractures extending downward. After

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

excavation, the northernmost solution cavity measured approximately 3' x 2.5' x 5.5' and the southernmost solution cavity measured approximately 8' x 4' x 3. The probability of rapid infiltration is high.

Feature F-64

This feature is a sinkhole surrounded by parking facilities to the north, east, and west. It is one of the largest karst features on the UTSA campus and a site of rapid recharge. Additional subsurface void space (cave passage) is very likely to occur beneath and perhaps adjacent to the feature. No excavation was attempted due to the size of the feature and boulders found within. A rock gabion was installed around the southern portion of the sinkhole. Immediately adjacent to the west of the sinkhole is an asphalt parking lot. A storm drain was installed to divert surface run-off from entering the feature. The probability of rapid infiltration is high.

Feature F-65

This feature is a sinkhole surrounded by parking areas and roadways. It is covered by a section of chain-link fence. No excavation of this feature has been attempted. The probability of rapid infiltration is high.

Feature F-67

This feature is a zone of intermittently exposed solution enlarged fractured rock outcrops occurring in the 100-year floodplain of Maverick Creek upstream of the fault that juxtaposes the Person Formation with the Del Rio Clay. Fractures closest to the fault are predominantly oriented between N40E and N80E. The probability of rapid infiltration is intermediate.

Feature F-68

This feature is a zone of intermittently exposed solution enlarged fractured rock outcrops occurring in the 100-year floodplain of unnamed tributaries of Leon Creek upstream of the fault that juxtaposes the Person Formation with the Del Rio Clay. Fractures closest to the fault are predominantly oriented between N40E and N80E. The probability of rapid infiltration is intermediate.

Feature F-71

This feature is a monitoring well (Texas Water Development Board Ground Water Data System well number 68-28-113, LUSUR #24) operated by the Edwards Aquifer Authority. It is 320 feet deep and is completed within the Edwards Aquifer. The wellhead is located along the western curb of Valero Drive.

UNIVERSITY OF TEXAS AT SAN ANTONIO

Geologic Assessment

REFERENCES

Clark, A.K., Golab, J.A., and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers Within Northern Bexar and Comal Counties, Texas: U.S. Geological Survey Scientific Investigations Map 3366, scale 1:24,000, 20 p. pamphlet.

Frost GeoSciences, 2017, Geologic Assessment: The UTSA East Campus Tract +/-17 Acres.

Frost GeoSciences, 2019, Geologic Assessment: UTSA Residential Lot #5 Tract +/-6 Acres.

Nationwide Environmental Title Research, LLC. Historical Aerials, historicalaerials.com, June 5, 2020.

Pape-Dawson, 2014, Geologic Assessment: UTSA Intramural Fields.

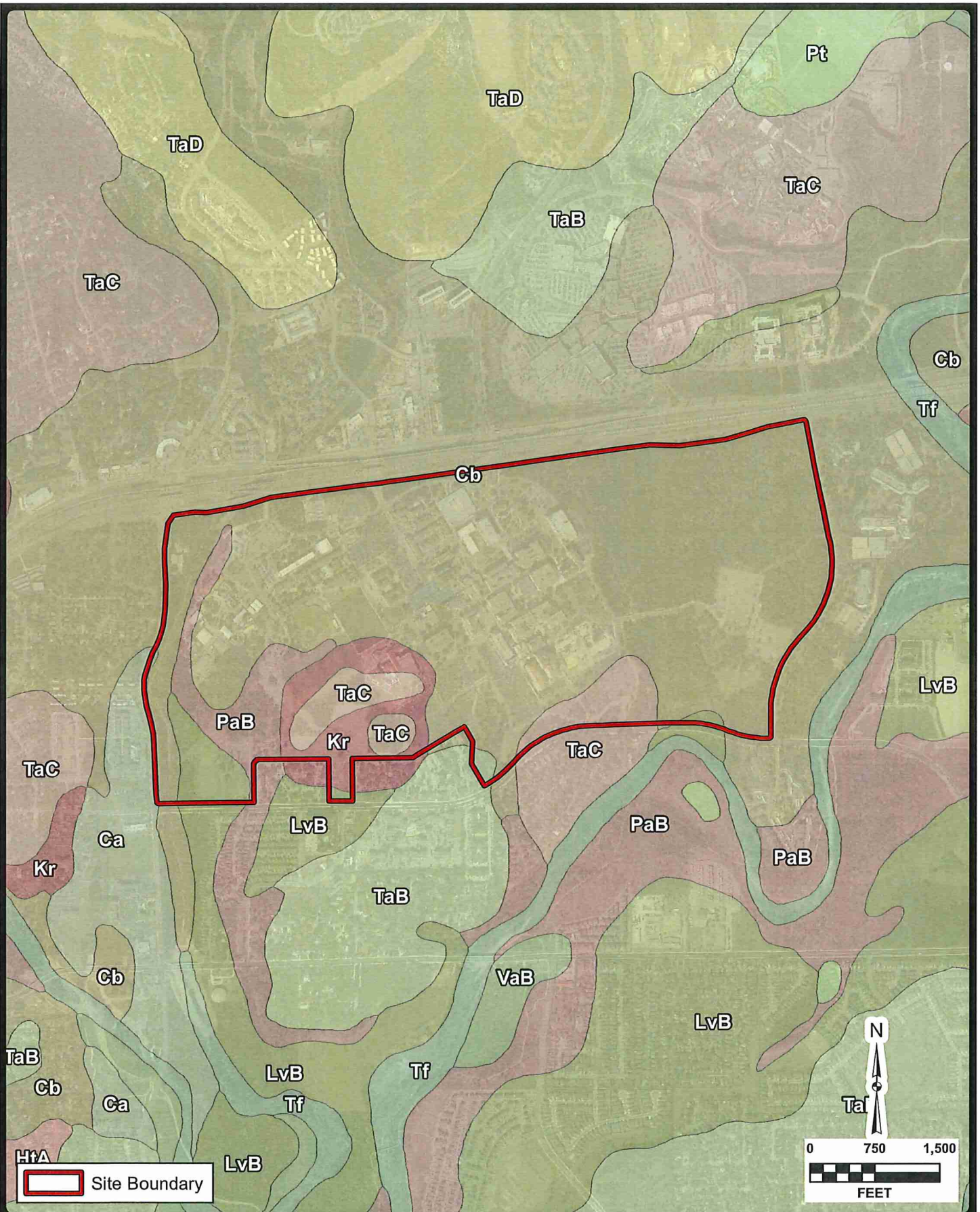
Pape-Dawson, 2019, Geologic Assessment: UTSA – Roadrunner Athletic Center of Excellence.

SWCA, 2003, Geologic Assessment: Undeveloped Portions of the 568.36-Acre UTSA Campus.

SWCA, 2009, Geologic Assessment: 2.34-acre Project Area North of the HSS Building at the University of Texas at San Antonio Campus.

Texas Water Development Board, Wells in TWDB Groundwater Database Viewer, <http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>, June 5, 2020.

ATTACHMENT D



JOB NO. 7491-41
DATE Jun 2020
DESIGNER HS
CHECKED HDJ DRAWN HS
SHEET Attachment D

UNIVERSITY OF TEXAS AT SAN ANTONIO
SAN ANTONIO, TEXAS
SITE SOILS MAP

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 4101 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028800

PROJECT LIMITS

FLOODPLAIN

STREAM

IMPERVIOUS COVER

GEOLOGIC SYMBOLS AND LINES

S-1

POTENTIAL RECHARGE FEATURE

CONTACT, LOCATED APPROXIMATELY

CONTACT, INFERRED

FAULT, LOCATED APPROXIMATELY (D, DOWNTHROWN SIDE; U, UPTHROWN SIDE)

FAULT, EXTRAPOLATED

FAULT, INFERRED

STRIKE AND DIP OF BEDDING

STRIKE AND DIP OF JOINTS

STRIKE OF VERTICAL JOINTS

CAVE

SOLUTION CAVITY

LEGEND

Qal

Kef

Kbu

Kdr

ALLUVIUM

EAGLE FORD

BUDA

DEL RIO

Kgt

Kep

Kek

Kgr

GEORGETOWN

PERSON

KAINER

GLEN ROSE

SOLUTION ENLARGED FRACTURE

SWALLOW HOLE

NON-KARST CLOSED DEPRESSION

OTHER NATURAL BEDROCK FEATURES

SPRING/SEEP

MAN-MADE FEATURE IN BEDROCK

WATER WELL

S-1 (SANITARY SEWER LINE: EAST MAIN)

S-2 (SANITARY SEWER LINE: WEST MAIN)

S-3 (VARIOUS STORM DRAIN LINES)

NOTE: THE GEOSCIENTIST SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR PURPOSES OF GEOLOGIC INFORMATION. ALL OTHER INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SIGNED AND SEALED CIVIL ENGINEERING DRAWINGS.

NOTE: ONLY THOSE GEOLOGIC FEATURES WITHIN THE AREA OF THIS ASSESSMENT ARE INCLUDED. THEREFORE, THE FEATURES MAY NOT BE NUMBERED SEQUENTIALLY.

* DENOTES FEATURES IDENTIFIED IN PREVIOUS ASSESSMENTS THAT WERE NOT OBSERVED DURING THIS ASSESSMENT.

** DENOTES FEATURES NOT CLASSIFIED AS SENSITIVE, ALTHOUGH PREVIOUS ASSESSMENTS CLASSIFIED THESE FEATURES AS SENSITIVE OR POSSIBLY SENSITIVE.

NOTE: AREAS OUTLINED IN YELLOW ARE BUFFER AREAS AS APPROVED IN PREVIOUS WPAP'S, OR FOR CRITICAL HABITAT UNIT 9.

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 110 | SAN ANTONIO, TX 78213 | 210.375.9000
TEPE FIRM REGISTRATION #470 | TPBG FIRM REGISTRATION #0505

UNIVERSITY OF TEXAS AT SAN ANTONIO
SAN ANTONIO, TEXAS
SITE GEOLOGIC MAP
WATER POLLUTION ABATEMENT PLAN

JOB NO. 7491-41
DATE JULY 2020
DESIGNER HS
CHECKED HDJ DRAWN HS
ATTACHMENT D

Date: Jul 06, 2020, 12:51pm User ID: hslutiz
File: P:\7491\7491-41\ENV\CA Attachments\G749141.dwg

**GEOLOGIC ASSESSMENT
FORM (TCEQ-0585)**

January 30, 2023

Ms. Monica Reyes
Texas Commission on Environmental Quality
Region 13
14250 Judson Road
San Antonio, Texas 78233-4480

Re: University of Texas at San Antonio (UTSA) Master Plan WPAP
RN102841897; Additional ID No. 13-14093001
Feature F-21 Assessment

Dear Ms. Reyes:

Pape-Dawson Engineers, Inc. (Pape-Dawson) conducted a geologic feature assessment of a feature located on the main campus of The University of Texas at San Antonio (UTSA). The feature, designated as F-21, is located approximately 500 feet southeast of the intersection of Barshop Boulevard and Margaret Tobin Avenue. The feature location is depicted and provided on Exhibit 1.

Background

In a Geologic Assessment (GA), conducted by SWCA, dated January 22, 2003, for the *Undeveloped Portion of the 568.36-Acre UTSA Campus*, F-21 was initially assessed according to *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (Revised 5/1/02)*. F-21 was described in that GA and is detailed below:

"[F-21] consists of a sinkhole measuring approximately 100'x80'x2.5'. It is located immediately northwest of the eastern end of Chisolm Hall dormitory. No excavation was attempted due to the size of the feature. Standing water in the sinkhole was observed during the course of the investigations of other nearby features following heavy overnight rains. A roughly 20'x30'x0.3' deep puddle diminished in volume by roughly half in 1 hour."

F-21 received a relative infiltration rate of 40, with total sensitivity ranking of 60, and with a catchment area less than 1.6 acres. A buffer was established based on existing low resolution topographic data.

In a GA dated July 6, 2020, conducted by Pape-Dawson, for *University of Texas at San Antonio*, F-21 was re-evaluated. F-21 was described in that GA and is detailed below:

"[F-21] is a sinkhole. It is located immediately northwest of the eastern end of Chisolm Hall dormitory. No excavation was attempted due to the size of the feature. Standing water in the sinkhole was observed during the course of investigations of other nearby features following heavy overnight rains. Standing water in the feature diminished faster than the background rate of dissipation. Therefore, the probability of rapid infiltration is high."

The sensitivity of F-21 as documented in the 2020 GA remained in concurrence with the 2003 GA. The established buffer was not changed in the 2020 GA.

On November 28, 2022, a high-resolution ground surface topographic survey was completed for the area around and including F-21 in preparation for proposed site improvements. On January 12, 2023, Pape-Dawson received a request from TCEQ that F-21 be re-evaluated by a Professional Geoscientist, prior to submitting an exception request for proposed site improvements in the vicinity of the feature.

Feature Assessment

Pape-Dawson assessed Feature F-21 on January 17, 2023. In accordance with *Instructions to Geologists (i.e., Form TCEQ-0585-Instructions, Revised 10/01/04)*, the total feature sensitivity of 60 remains unchanged from previous assessments. A Geologic Assessment table, *TCEQ-0585-Table (Rev. 10-01-10)*, is provided as Attachment A. Surface drainage to the feature was calculated based on the November 28, 2022 topographic survey. The topographic survey was determined to be consistent with the visual observation of the surface drainage to the feature by a Pape-Dawson Professional Geoscientist.

The previously established buffer area is approximately 0.9264 acres. This buffer includes surface drainage that does not drain to F-21. The proposed revised buffer area has been reduced to approximately 0.7261 acres, but it includes surface drainage to the F-21 that was not previously included in the buffer area. Based on the increased resolution of the surface topography and surface drainage to the feature, the previously established buffer should be revised as calculated and described herein. The updated contours, surface drainage, and previously established buffer are depicted on Exhibit 2.

Closing

Pending your review of the information provided herein, we respectfully request approval of our assessment findings. Please do not hesitate to contact our office if you have further questions or require additional information.

Sincerely,
Pape-Dawson Engineers, Inc.



Heather D. Johnson
Senior Environmental Manager



Henry E. Stultz III, P.G.
Project Geoscientist

Attachments

P:\74\91\55\ENV\Feature Assessment\Feature Assessment Letter.docx



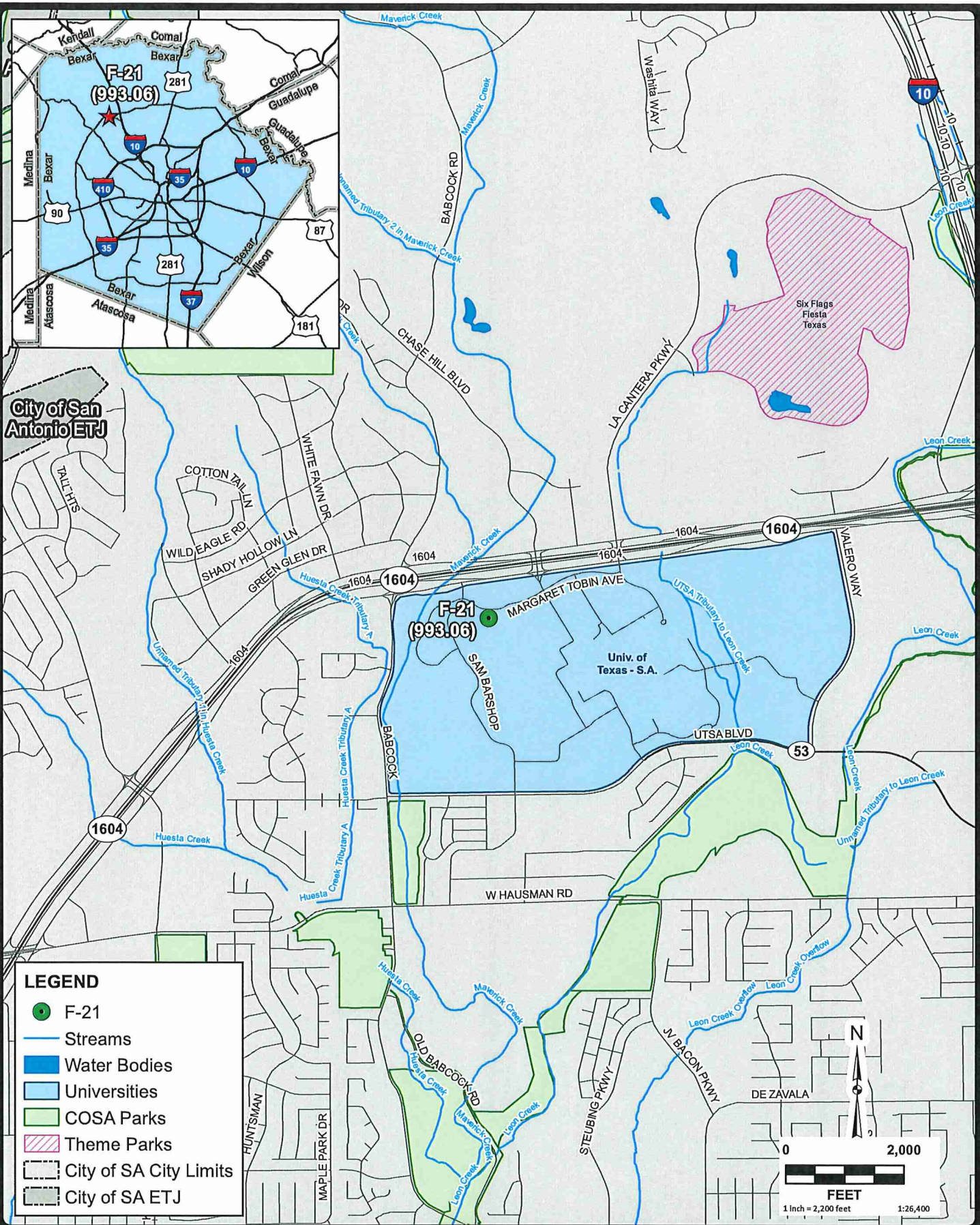
[illegible]

Note: Only those geologic and man-made features within the area of the assessment are included. Therefore, the features may not be numbered sequentially.

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

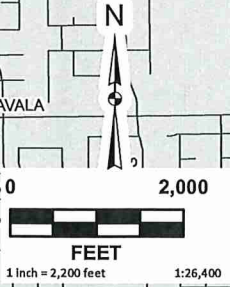
I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Date January 30, 2023



LEGEND

- F-21
- Streams
- Water Bodies
- Universities
- COSA Parks
- ▨ Theme Parks
- City of SA City Limits
- City of SA ETJ

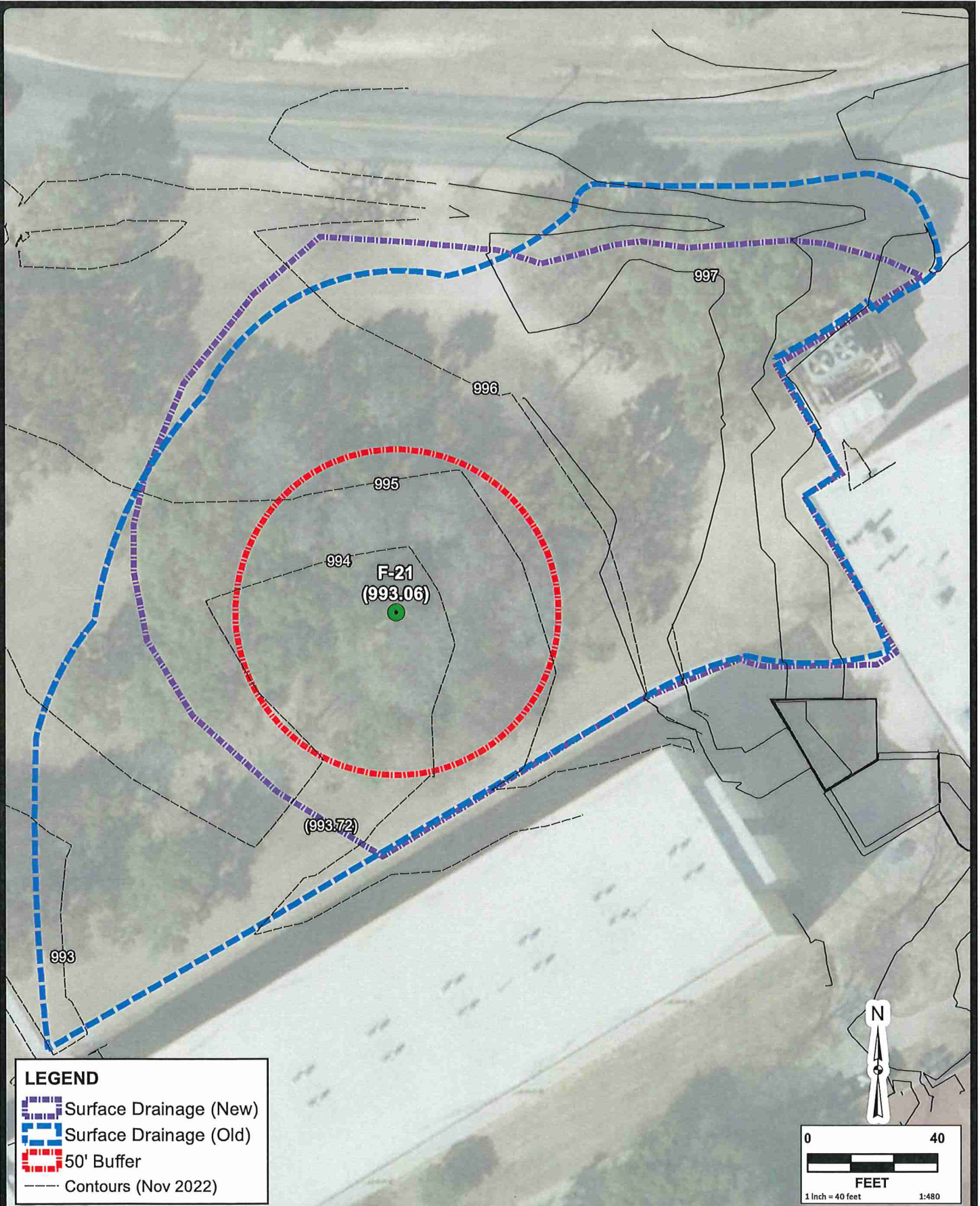


JOB NO.	7491-55
DATE	Jan 2023
DRAWN	HS
CHECKED	HDJ
SHEET	EXHIBIT 1

UTSA PHASE IV HOUSING FEATURE LOCATION MAP BEXAR COUNTY, TEXAS

**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
 TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
 TBPG FIRM REGISTRATION #50351



LEGEND

- Surface Drainage (New)
- Surface Drainage (Old)
- 50' Buffer
- Contours (Nov 2022)

JOB NO.	7491-55
DATE	Jan 2023
DRAWN	HS
CHECKED	HDJ
SHEET	EXHIBIT 2

UTSA PHASE IV HOUSING SITE & VICINITY MAP 2021 AERIAL PHOTOGRAPH BEXAR COUNTY, TEXAS

**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10026800
TBPB FIRM REGISTRATION #50351

**RECHARGE AND TRANSITION
ZONE EXCEPTION
REQUEST FORM (TCEQ-
0628)**

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality

30 TAC §213.9 Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Jason T. Diamond, P.E.

Date: 09/16/2024

Signature of Customer/Agent:



Regulated Entity Name: UTSA Habitat Conservation Plan

Exception Request

1. ☒ **Attachment A - Nature of Exception.** A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

ATTACHMENT A

UTSA HABITAT CONSERVATION PLAN

Recharge Zone Exception Request

Attachment A – Nature of Exception

This UTSA Habitat Conservation Plan exception request is being submitted to approve disturbance within the feature buffers of five (5) naturally occurring sensitive features as part of a collaboration with the University of Texas at San Antonio on a project that aims to create an endangered species karst preserve on campus. Understanding how many karst features on the campus are occupied by listed species, requires excavation of features using heavy equipment (backhoe with a breaker/bucket) or hand excavation. This application proposes regulated activity to access and open these features in such a manner that allows survey within them for listed species. Mechanical excavation is proposed on features F-21, F-48, F-50, and F-65. Features F-21 and F-65 are located along the north and northwestern portions of the UTSA Main Campus, while features F-48 and F-50 are located on the east. Additionally, feature F-64 is proposed to be hand excavated. Specific locations of the features:

- F-21: 29.58535 N, -98.62632 W
- F-48: 29.58813 N, -98.61385 W
- F-50: 29.58752 N, -98.61131 W
- F-64: 29.58634 N, -98.61996 W
- F-65: 29.58623 N, -98.618084 W

No additional disturbance or impervious cover is proposed within these sites. Equivalent water quality protection will be maintained as surface drainage within the existing buffer area will be preserved and site disturbance will be limited. Refer to included exhibits for proposed temporary BMPs for protection of the buffers in each excavation area.

ATTACHMENT B

UTSA HABITAT CONSERVATION PLAN

Recharge Zone Exception Request

Attachment B – Documentation of Equivalent Water Quality Protection

This UTSA Habitat Conservation Plan exception request is being submitted to approve disturbance within the feature buffers of five (5) naturally occurring sensitive features as part of a collaboration with the University of Texas at San Antonio on a project that aims to create an endangered species karst preserve on campus. Understanding how many karst features on the campus are occupied by listed species, requires excavation of features using heavy equipment (backhoe with a breaker/bucket) or hand excavation. This application proposes regulated activity to access and open these features in such a manner that allows survey within them for listed species. Mechanical excavation is proposed on features F-21, F-48, F-50, and F-65. Features F-21 and F-65 are located along the north and northwestern portions of the UTSA Main Campus, while features F-48 and F-50 are located on the east. Additionally, feature F-64 is proposed to be hand excavated. Specific locations of the features:

- F-21: 29.58535 N, -98.62632 W
- F-48: 29.58813 N, -98.61385 W
- F-50: 29.58752 N, -98.61131 W
- F-64: 29.58634 N, -98.61996 W
- F-65: 29.58623 N, -98.618084 W

No additional disturbance or impervious cover is proposed within these sites. Equivalent water quality protection will be maintained as surface drainage within the existing buffer area will be preserved and site disturbance will be limited. Refer to included exhibits for proposed temporary BMPs for protection of the buffers in each excavation area.

There will be no increase in impervious cover and no proposed changes to the watersheds or approved onsite PBMPs therefore equivalent protection is satisfied.

**TEMPORARY STORMWATER
SECTION (TCEQ-0602)**

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Jason T. Diamond, P.E.

Date: 09/16/2024

Signature of Customer/Agent:

Jason T. Diamond

Regulated Entity Name: UTSA Habitat Conservation Plan

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

☐ The following fuels and/or hazardous substances will be stored on the site: _____

These fuels and/or hazardous substances will be stored in:

- ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Leon Creek

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☐ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

- 18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

- 20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
- 22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment A – Spill Response Actions

In the event of an accidental leak or spill:

- Spill must be contained and cleaned up immediately.
- Spills will not be merely buried or washed with water.
- Contractor shall take action to contain spill. Contractor may use sand or other absorbent material stockpiled on site to absorb spill. Absorbent material should be spread over the spill area to absorb the spilled product.
- In the event of an uncontained discharge the contractor shall utilize onsite equipment to construct berms downgradient of the spill with sand or other absorbent material to contain and absorb the spilled product.
- Spill containment/absorbent materials along with impacted media must be collected and stored in such a way so as not to continue to affect additional media (soil/water). Once the spill has been contained, collected material should be placed on poly or plastic sheeting until removed from the site. The impacted media and cleanup materials should be covered with plastic sheeting and the edges weighed down with paving bricks or other similarly dense objects as the material is being accumulated. This will prevent the impacted media and cleanup materials from becoming airborne in windy conditions or impacting runoff during a rain event. The stockpiled materials should not be located within an area of concentrated runoff such as along a curb line or within a swale.
- Contaminated soils and cleanup materials will be sampled for waste characterization. When the analysis results are known the contaminated soils and cleanup materials will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.
- The contractor will be required to notify the owner, who will in turn contact TCEQ to notify them in the event of a significant hazardous/reportable quantity spill. Additional notifications as required by the type and amount of spill will be conducted by owner or owner's representative.

In the event of an accidental significant or hazardous spill:

The contractor will be required to report significant or hazardous spills in reportable quantities to:

- Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site. https://www.tceq.texas.gov/response/spills/spill_rq.html
- For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

- Notification should first be made by telephone and followed up with a written report.
- The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.
- Contaminated soils will be sampled for waste characterization. When the analysis results are known the contaminated soils will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.

Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 1.4.16. Contractor shall review this section.

ATTACHMENT B

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment B – Potential Sources of Contamination

Other potential sources of contamination during construction include:

Potential Source	●	Asphalt products used on this project.
Preventative Measure	■	After placement of asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain.
Potential Source	●	Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping.
Preventative Measure	■	Vehicle maintenance when possible will be performed within the construction staging area.
	■	Construction vehicles and equipment shall be checked regularly for leaks and repaired immediately.
Potential Source	●	Accidental leaks or spills of oil, petroleum products and substances listed under 40 CFR parts 110, 117, and 302 used or stored temporarily on site.
Preventative Measure	■	Contractor to incorporate into regular safety meetings, a discussion of spill prevention and appropriate disposal procedures.
	■	Contractor's superintendent or representative overseer shall enforce proper spill prevention and control measures.
	■	Hazardous materials and wastes shall be stored in covered containers and protected from vandalism.
	■	A stockpile of spill cleanup materials shall be stored on site where it will be readily accessible.
Potential Source	●	Miscellaneous trash and litter from construction workers and material wrappings.
Preventive Measure	■	Trash containers will be placed throughout the site to encourage proper trash disposal.
Potential Source	●	Construction debris.
Preventive Measure	■	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis.

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Potential Source	●	Spills/Overflow of waste from portable toilets
Preventative Measure	■	Portable toilets will be placed away from high traffic vehicular areas and storm drain inlets.
	■	Portable toilets will be placed on a level ground surface.
	■	Portable toilets will be inspected regularly for leaks and will be serviced and sanitized at time intervals that will maintain sanitary conditions.

ATTACHMENT C

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment C – Sequence of Major Activities

The sequence of major activities which disturb soil during construction on this site will be divided into two stages. The first is site preparation that will include installation of TBMPs and grubbing of vegetation where applicable. This will disturb approximately 0.25 acres total for the overall campus site. The second is limited site disturbance for the five (5) features for mechanical or hand excavation to gain better access for Karst investigations. This will disturb approximately 0.25 acres.

ATTACHMENT D

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment D – Temporary Best Management Practices and Measures

A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

No offsite upgradient water will cross the site. All TBMPs are adequate for the drainage areas they serve.

- b. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

Site preparation, which is the initiation of all activity on the project, will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include: (1) installation of silt fence along the downgradient boundary of regulated activities and feature perimeter for temporary erosion and sedimentation controls, (2) installation of stabilized construction entrance/exit(s), as needed, to reduce the dispersion of sediment from the site, and (3) installation of spoil pile/staging area(s).

Prior to the initiation of regulated activity, all previously installed control measures will be repaired or reestablished for their designed or intended purpose. This work, which is the remainder of all activity on the project, may also disturb additional soil.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, they will not enter surface streams and/or sensitive features.

- c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

Proposed Temporary BMPs are intended to protect the feature buffer and are adequate for the drainage areas served.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, they will not enter surface streams and/or sensitive features.

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

- d. A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

Proposed Temporary BMPs are intended to protect the feature buffer and are adequate for the drainage areas served.

BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMPs. This will allow stormwater runoff to continue downgradient to streams or features that may exist downstream of the site.

ATTACHMENT F

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment F – Structural Practices

The following structural measures will be installed prior to the initiation of site preparation activities:

- Erection of silt fence around the perimeter of the feature and regulated activities, as located on Exhibits.
- Installation of spoils pile for soil stockpiling.

ATTACHMENT G

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment G – Drainage Area Map

No more than ten (10) acres will be disturbed for the proposed improvements. All TBMPs utilized are adequate for the drainage areas served.

ATTACHMENT I

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

INSPECTIONS

Designated and qualified person(s) shall inspect Pollution Control Measures weekly and within 24 hours after a storm event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm Water TPDES data for a period of three years after the Notice of Termination (NOT) has been filed. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, (6) concrete truck rinse-out pit for signs of potential failure, (7) embankment, spillways, and outlet of sediment basin (where applicable) for erosion damage, and (8) sediment basins (where applicable) for evidence that basin has accumulated 50% of its volume in silt. Deficiencies noted during the inspection will be corrected and documented within seven calendar days following the inspection or before the next anticipated storm event if practicable.

Contractor shall review Sections 1.3 and 1.4 of TCEQ's Technical Guidance Manual for additional BMP inspection and maintenance requirements.

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Pollution Prevention Measure	Inspected in Compliance	Corrective Action Required	
		Description (use additional sheet if necessary)	Date Completed
Best Management Practices			
Natural vegetation buffer strips			
Temporary vegetation			
Permanent vegetation			
Sediment control basin			
Silt fences			
Rock berms			
Gravel filter bags			
Drain inlet protection			
Other structural controls			
Vehicle exits (off-site tracking)			
Material storage areas (leakage)			
Equipment areas (leaks, spills)			
Concrete washout pit (leaks, failure)			
General site cleanliness			
Trash receptacles			
Evidence of Erosion			
Site preparation			
Roadway or parking lot construction			
Utility construction			
Drainage construction			
Building construction			
Major Observations			
Sediment discharges from site			
BMPs requiring maintenance			
BMPs requiring modification			
Additional BMPs required			

_____ A brief statement describing the qualifications of the inspector is included in this SWP3.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I further certify I am an authorized signatory in accordance with the provisions of 30 TAC §305.128."

Inspector's Name

Inspector's Signature

Date

UTSA HABITAT CONSERVATION PLAN

Recharge Zone Exception Request

PROJECT MILESTONE DATES

Date when major site grading activities begin:

<u>Construction Activity</u>	<u>Date</u>
Installation of BMPs	

Dates when construction activities temporarily or permanently cease on all or a portion of the project:

<u>Construction Activity</u>	<u>Date</u>

Dates when stabilization measures are initiated:

<u>Stabilization Activity</u>	<u>Date</u>
Removal of BMPs	

ATTACHMENT J

UTSA HABITAT CONSERVATION PLAN

Recharge Zone_Exception Request

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

Interim on-site stabilization measures, which are continuous, will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest period of time and maximizing use of natural vegetation. As soon as practical, all disturbed soil will be stabilized as per project specifications in accordance with pages 1-35 to 1-60 of TCEQ's Technical Guidance Manual (TGM) RG-348 (2005). Mulching, netting, erosion blankets and seeding are acceptable.

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, will be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.

AGENT AUTHORIZATION FORM
(TCEQ-0599)

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Corrina Green,
Print Name

SR Associate VP of Real Estate and Property Management,
Title - Owner/President/Other

of The University of Texas at San Antonio,
Corporation/Partnership/Entity Name

have authorized Pape-Dawson Consulting Engineers, LLC.
Print Name of Agent/Engineer

of Pape-Dawson Consulting Engineers, LLC.
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:


Applicant's Signature


9.16.24
Date

THE STATE OF Texas §
County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 16 day of September, 2024




NOTARY PUBLIC

Angel Espinoza
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 9/29/2024

APPLICATION FEE FORM
(TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: UTSA Habitat Conservation Plan

Regulated Entity Location: Relatively south and east of Peace Circle and James Bauerle Rd

Name of Customer: The University of Texas at San Antonio

Contact Person: Corrina Green

Phone: (210) 458-4803

Customer Reference Number (if issued): CN 603531864

Regulated Entity Reference Number (if issued): RN 102841897

Austin Regional Office (3373)

☐ Hays

☐ Williamson

☐ Travis

San Antonio Regional Office (3362)

☒ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

☐ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

☒ Overnight Delivery to: TCEQ - Cashier

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	1 Each	\$ 500

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Extension of Time	Each	\$

Signature: Jason T. Diamond Date: 09/16/2024

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<i>Project</i>	<i>Project Area in Acres</i>	<i>Fee</i>
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

<i>Project</i>	<i>Cost per Linear Foot</i>	<i>Minimum Fee- Maximum Fee</i>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

<i>Project</i>	<i>Cost per Tank or Piping System</i>	<i>Minimum Fee- Maximum Fee</i>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150

CORE DATA FORM
(TCEQ-10400)



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership			
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
	City	State	ZIP
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code	20. Fax Number (if applicable)
() -			() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	

23. Street Address of the Regulated Entity: (No PO Boxes)							
	City		State		ZIP		ZIP + 4
24. County							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:							
26. Nearest City					State	Nearest ZIP Code	
27. Latitude (N) In Decimal:				28. Longitude (W) In Decimal:			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)							
34. Mailing Address:							
	City		State		ZIP		ZIP + 4
35. E-Mail Address:							
36. Telephone Number		37. Extension or Code		38. Fax Number (if applicable)			
() -				() -			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

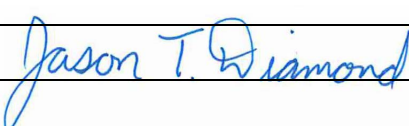
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:			41. Title:		
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
() -		() -			

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:			Job Title:		
Name(In Print) :				Phone:	() -
Signature:				Date:	09/16/2024

EXHIBITS

DATE: Sep 10, 2024 12:02 PM User: rffores
FILE: P:\12932\00\ENV\Feature Excavation\GIS\GIS.aprx
AERIAL IMAGERY PROVIDED BY GOOGLE © UNLESS OTHERWISE NOTED. Imagery ©2024, CAPOG, Digital Globe, Tees, Orthomagic, Program, USDA Farm Service Agency.



JOB NO.	12932-00
DATE	Sep 2024
DESIGNER	FF
CHECKED	VC
DRAWN	FF
SHEET	EXHIBIT 6

UTSA EXCAVATION FEATURES
KARST FEATURE EVALUATION
EXCAVATED FEATURES MAP

**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



LEGEND

- Feature
- Re-Vegetation Area (1,499 sq. ft.)
- Backhoe Path (1,374 sq. ft.)
- Spoil Pile (125 sq. ft.)

Fencing

- Proposed Silt Fence (105 FL)

JOB NO.	12932-00
DATE	Sep 2024
DESIGNER	FF
CHECKED	VC DRAWN FF
SHEET	EXHIBIT 4

UTSA FEATURE F-48
KARST FEATURE EVALUATION
EXCAVATION/SITE PLAN MAP



2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



LEGEND

- Feature
- Re-Vegetation Area (7,495 sq. fl.)
- Spoil Pile (125 sq. fl.)
- Backhoe Path (7,370 sq. fl.)

Fencing

- Proposed Silt Fence (150 LF)

JOB NO. 12932-00
DATE Sep 2024
DESIGNER FF
CHECKED FF DRAWN VC
SHEET EXHIBIT 3

**UTSA FEATURE F-50
KARST FEATURE EVALUATION
EXCAVATION/SITE PLAN MAP**

**PAPE-DAWSON
ENGINEERS**
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



LEGEND

- Feature
- Proposed Silt Fence (200 LF)

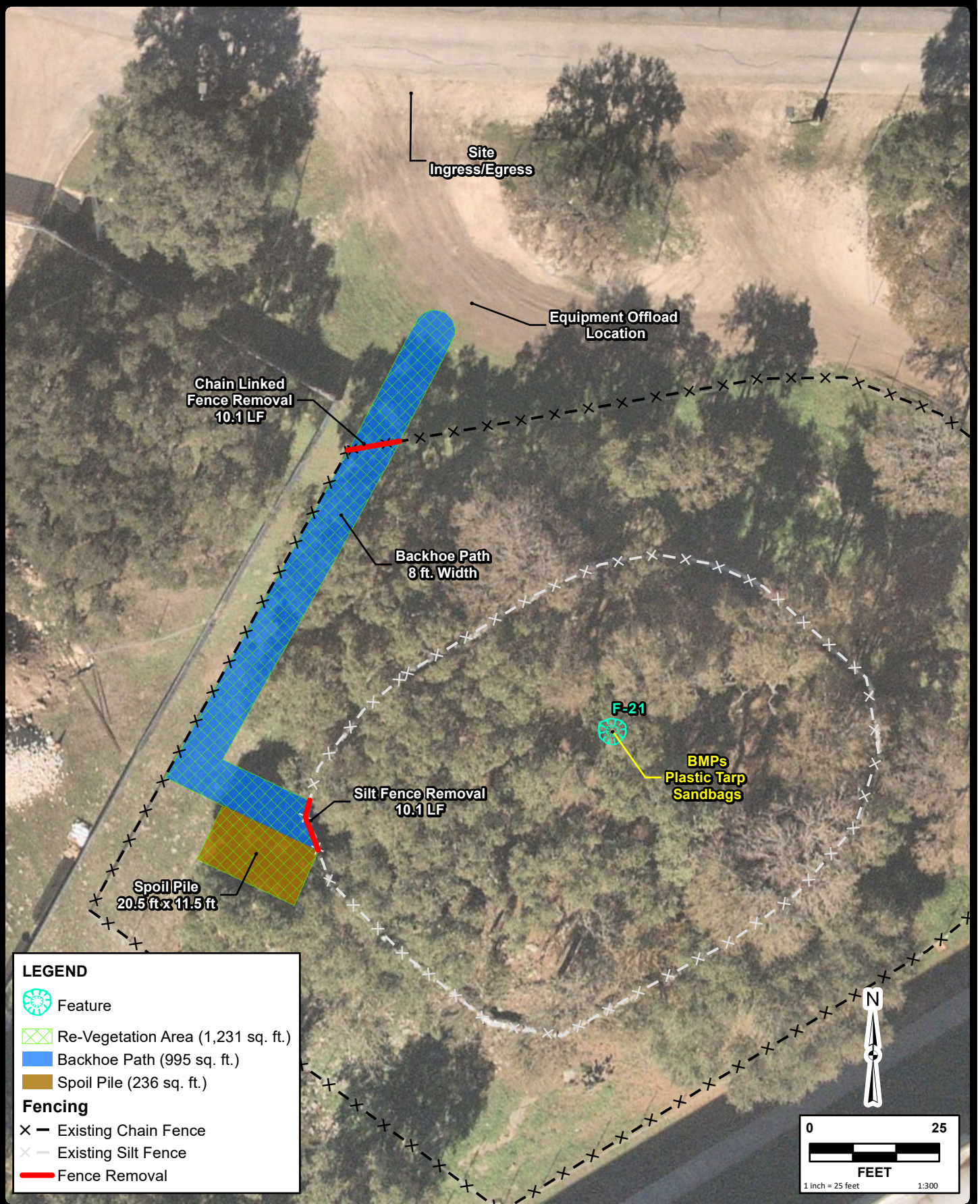
JOB NO.	12932-00
DATE	Sep 2024
DESIGNER	FF
CHECKED	VC DRAWN FF
SHEET	EXHIBIT 5

UTSA FEATURE F-64 (HAND EXCAVATED)








KARST FEATURE EVALUATION EXCAVATION/SITE PLAN MAP



2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



LEGEND

-  Feature
-  Re-Vegetation Area (1,231 sq. ft.)
-  Backhoe Path (995 sq. ft.)
-  Spoil Pile (236 sq. ft.)
- Fencing**
-  Existing Chain Fence
-  Existing Silt Fence
-  Fence Removal

JOB NO.	12932-00
DATE	Aug 2024
DRAWN	WL
CHECKED	VC
SHEET	EXHIBIT 1

UTSA Feature F-21 KARST FEATURE EVALUATION EXCAVATION/SITE PLAN MAP

**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



JOB NO.	12932-00
DATE	Aug 2024
DRAWN	WL
CHECKED	VC
SHEET	EXHIBIT 2