

Water Pollution Abatement Plan (Exception)

Georgetown ISD Tippit Middle School Green Ribbon

Prepared for: TxDOT

Prepared by: BGE, Inc.

TBPE Registered Firm #: 1046

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7/7/2025

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

- 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

- 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.:					
Georgetown ISD Tippit Middle School Green Ribbon								
3. Customer Name: TxDOT			4. Customer No.: CN600803456					
5. Project Type: (Please circle/check one)	New	Modi	ficatior	1	Exter	nsion	Exception	
6. Plan Type: (Please circle/check one)	WPAP CZF	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-	Non-residential			8. Sit	e (acres):	42.5
9. Application Fee:	N/A - TxDO	Г 10. Р	10. Permanent BMP(s):		s):	Vegetated Filter Strip		
11. SCS (Linear Ft.):		12. A	12. AST/UST (No. Tanks):			ıks):		
13. County:	Williamson	14. V	Vaters	hed:			Granger Lake-San Gabriel River	

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%2oGWCD%2omap.pdf

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

Austin Region				
County:	Hays	Travis	Williamson	
Original (1 req.)	_	_	<u>X</u>	
Region (1 req.)		_	<u>X</u>	
County(ies)	_	_	_ <u>X</u> _	
Groundwater Conservation District(s)	Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek	Barton Springs/ Edwards Aquifer	NA	
City(ies) Jurisdiction	AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorence _X_GeorgetownJerrellLeanderLiberty HillPflugervilleRound 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 HillsFair Oaks RanchHelotesHill Country VillageHollywood ParkSan Antonio (SAWS)Shavano Park	BulverdeFair Oaks RanchGarden RidgeNew BraunfelsSchertz	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.			
Joshua Richter, PE			
Print Name of Customer/Authorized Agent			
Costra Kielte	7/1/2025		
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):	Payable to TCEQ (Y/N):		
Core Data Form Complete (Y/N):	Check: Signed (Y/N):		
Core Data Form Incomplete Nos.:	Less than 90 days old (Y/N):		

General Information Form

Texas Commission on Environmental Quality

Print Name of Customer/Agent: Joshua Richter, PE

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:

Da	te: <u>7/1/202</u> 5
Sig	gnature of Customer/Agent:
6	Joshu Richter
P	roject Information
1.	Regulated Entity Name: <u>Georgetown ISD Tippit Middle School Green Ribbon</u>
2.	County: Williamson
3.	Stream Basin: Smith Branch - San Gabriel River
4.	Groundwater Conservation District (If applicable): N/A
5.	Edwards Aquifer Zone:
	Recharge Zone Transition Zone
6.	Plan Type:
	WPAPSCSModificationASTUSTException Request

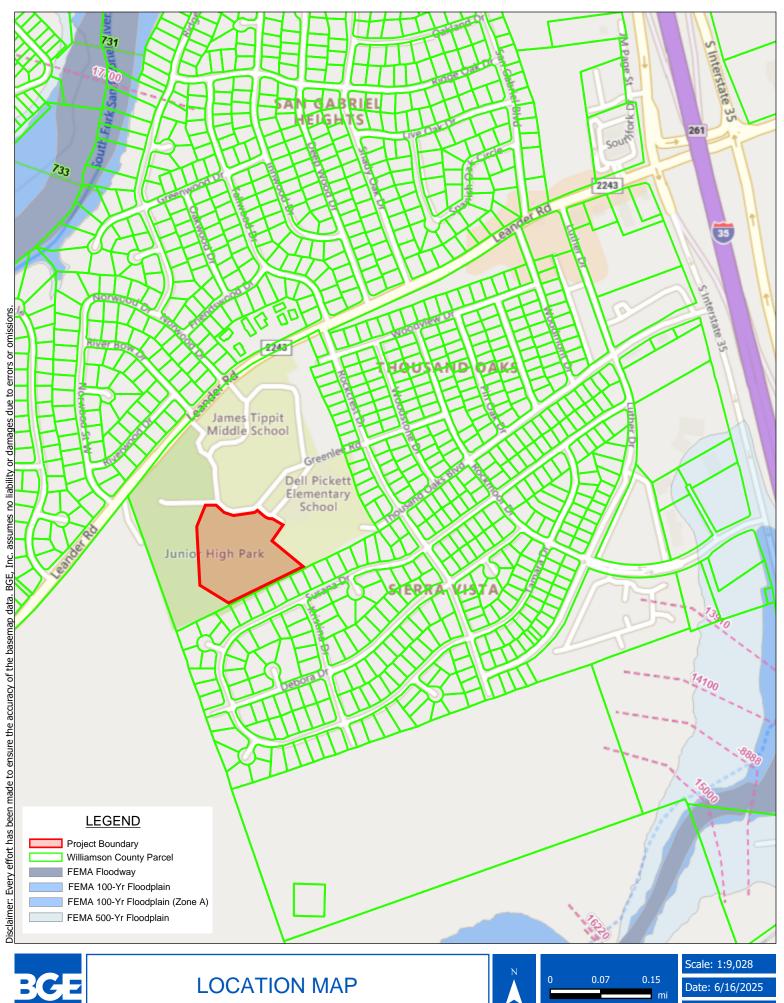
/.	Customer (Applicant):	
	Contact Person: Kyle Russell Entity: Texas Department of Transportation Mailing Address: 2727 South Austin Ave. City, State: Georgetown, TX Telephone: (512) 930-5402 Email Address: kyle.russell@txdot.gov	Zip: <u>78627</u> FAX:
8.	Agent/Representative (If any):	
	Contact Person: <u>Joshua Richter, PE</u> Entity: <u>BGE, Inc.</u> Mailing Address: <u>101 West Louis Henna Blvd, S</u> City, State: <u>Austin, TX</u> Telephone: <u>(512) 879-0484</u> Email Address: <u>irichter@bgeinc.com</u>	<u>uite 400</u> Zip: <u>78728</u> FAX:
9.	Project Location:	
	 ☐ The project site is located inside the city lim ☐ The project site is located outside the city light jurisdiction) of ☐ The project site is not located within any cit 	mits but inside the ETJ (extra-territorial
10.	The location of the project site is described detail and clarity so that the TCEQ's Region boundaries for a field investigation.	below. The description provides sufficient al staff can easily locate the project and site
	1601 Leander Rd, Georgetown, TX 78628	
11.	Attachment A – Road Map. A road map sh project site is attached. The project location the map.	_
12.	USGS Quadrangle Map (Scale: 1" = 2000') o The map(s) clearly show:	
	 ✓ Project site boundaries. ✓ USGS Quadrangle Name(s). ✓ Boundaries of the Recharge Zone (and Tour of the project site to the project site	
13.		project to allow TCEQ regional staff to locate ated activities and the geologic or manmade
	Survey staking will be completed by this da	te:

	chment C – Project Description. Attached at the end of this form is a detailed
	ative description of the proposed project. The project description is consistent ughout the application and contains, at a minimum, the following details:
C P S P	Area of the site Offsite areas Impervious cover Offsite areas Impervious cover Offsite areas Indicate a second of the site area of the site ar
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) Under: Educational Facility
Prohibit	ted Activities
	aware that the following activities are prohibited on the Recharge Zone and are notosed for this project:
	Vaste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Inderground Injection Control);
(2) N	New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
(3) L	and disposal of Class I wastes, as defined in 30 TAC §335.1;
(4) T	he use of sewage holding tanks as parts of organized collection systems; and
S	New municipal solid waste landfill facilities required to meet and comply with Type I tandards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
	New municipal and industrial wastewater discharges into or adjacent to water in the tate that would create additional pollutant loading.
	aware that the following activities are prohibited on the Transition Zone and are proposed for this project:
	Vaste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground njection Control);
(2) L	and 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. Th	e 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.

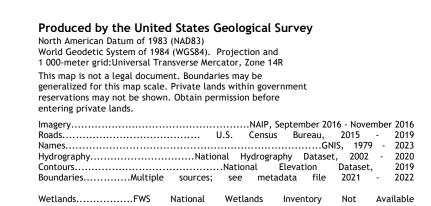


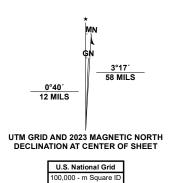




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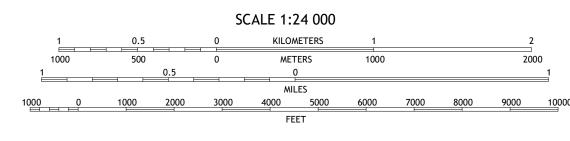






PU

Grid Zone Designation 14R



CONTOUR INTERVAL 10 FEET NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.





Attachment C - Project Narrative

Area of Site

Development relating to this Water Pollution Abatement Plan (WPAP) Exception will occur on a 42.5-acre site owned by Georgetown ISD. This site is located at 1601 Leander Rd, Georgetown, TX 78628 and lies with the Edwards Aquifer Recharge Zone.

Offsite Areas

Runoff from upstream neighboring properties drains to the site; existing impervious cover from these areas will not need to be incorporated into TSS removal considerations as they have already been accounted for.

Impervious Cover

The proposed drainage area contributing to the site incorporates 19.05 acres of runoff area. The proposed improvements (sidewalks and planting beds) generate a total of 0.24 acres of impervious cover, yielding a required TSS removal of 209 pounds. City of Georgetown requires an 85% TSS removal, yielding a 226 pounds of required TSS removal. All calculations demonstrating adequate treatment can be found in the TSS Removal Calculations provided in *Attachment B – Documentation of Equivalent Water Quality Protection*.

Permanent BMPs

A series of six Vegetated Filter Strips (VFS) serve as BMP solutions for treating the proposed increase in pollutant runoff; all VFSs are designed in accordance with the guidance provided in RG-348. All VFSs are located on the downgradient sides of the proposed sidewalk to ensure proper capture of pollutant runoff. Because VFS removal performance is rated at 85% efficiency, placing the VFSs on the downgradient sides and across the entire span of the proposed sidewalk ensures that all proposed impervious cover is captured and treated in compliance with both TCEQ (80%) and City of Georgetown (85%) TSS removal requirements. In total, 226 pounds of TSS are claimed.

Proposed Site Use

TxDOT will be installing a walking path (sidewalks) and several planting beds on the south side of Tippit Middle School as mitigation for impacts to federally protected species incurred by the RM 2243 project from US 183A to SW Bypass. These landscaping improvements are being implemented with the intent to restore On-Campus Cave and its associated cave fauna, establish pollinator habitat, and provide an educational opportunity for the students and surrounding community.

Site History, Previous Development, and Areas to be Demolished

This site is owned by Georgetown ISD and is home to James Tippit Middle School, The Boys & Girls Club of Georgetown Texas, the Junior High Park, and other Georgetown ISD facilities that support campus operations. There are no proposals to demolish any areas within this site.



Geologic Assessment for the Leander Road Mitigation Project, Williamson County, Texas

JUNE 2024

PREPARED FOR

BGE, Inc.

PREPARED BY

SWCA Environmental Consultants

Texas Board of Professional Geoscientists, Firm Registration No. 50159

GEOLOGIC ASSESSMENT FOR THE LEANDER ROAD MITIGATION PROJECT, WILLIAMSON COUNTY, TEXAS

Prepared for

BGE, Inc.

101 West Louis Henna Boulevard, Suite 400 Austin, Texas 78728 Attn: Tricia Mosier

Prepared by

SWCA Environmental Consultants

4949 N. Loop 1604, Suite 235 San Antonio, Texas 78249 www.swca.com Philip C. Pearce
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691
CENSE

SWCA Project No. 80902

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June 2024

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Geologic Assessment for the Leander Road Mitigation Project, Williamson County, Texas
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1 INTRODUCTION

This narrative Geologic Assessment accompanies Texas Commission on Environmental Quality (TCEQ) Geologic Assessment Form TCEQ-0585 completed for the Leander Road Mitigation Project (project). The subject property is an approximately 8-acre field within Tippit Middle School property located at 1601 Leander Road in Georgetown, Texas (Figure 1).

2 METHODOLOGY

SWCA Environmental Consultants (SWCA) scientists studied records pertaining to all reported caves in the subject property and gathered information related to documented caves in the project vicinity prior to conducting field work. Relevant information sources include the following:

- Internal SWCA cave data;
- Unpublished data related to SWCA et al. (2008);
- ESRI® ArcGIS® Online Basemap Map Services;
- U.S. Geological Survey (2019) 7.5-minute topographic digital raster graphics;
- Geologic maps (Barnes 1974; Collins 1997); and
- Mapped fault lines (Collins 1997).

An SWCA geologist conducted the field survey of the subject property on May 3, 2024. The pedestrian survey was completed by walking parallel transects spaced approximately 30 to 50 feet apart, as directed by the TCEQ in the Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (Rev. 10-01-04). Closer spacing was used where vegetation inhibited observation. The SWCA scientist carefully examined all potential karst features, including depressions, holes, and animal burrows, for subsurface extent evidence. SWCA used several techniques for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for air flow which may indicate the presence of a subsurface void space. Other techniques included recording notable features and site characteristics, such as vegetation types or semi-circular burrow mounds produced by small mammal activity.

3 RESULTS

3.1 PROJECT AREA OVERVIEW

The subject property is located within the Edwards Aquifer Recharge Zone (EARZ), within the northern segment of the Edwards Aquifer (TCEQ 2024). Topography within and surrounding the project slopes from the west to the east. Ground elevation within the project ranges from $810\pm$ to $840\pm$ feet above mean sea level (U.S. Geological Survey 2019).

The subject property consists of an approximately 8-acre open area within the Tippit Middle School campus. The subject property consists of open herbaceous vegetation and wooded land. The subject property is located within the Balcones Canyonlands subdivision of the Texas Edwards Plateau ecoregion (Griffith et al. 2007). The subject property is located within the South Fork of the San Gabriel River watershed. Surface water in at the subject property generally flows east-northeast, eventually culminating in West Fork Smith Branch.

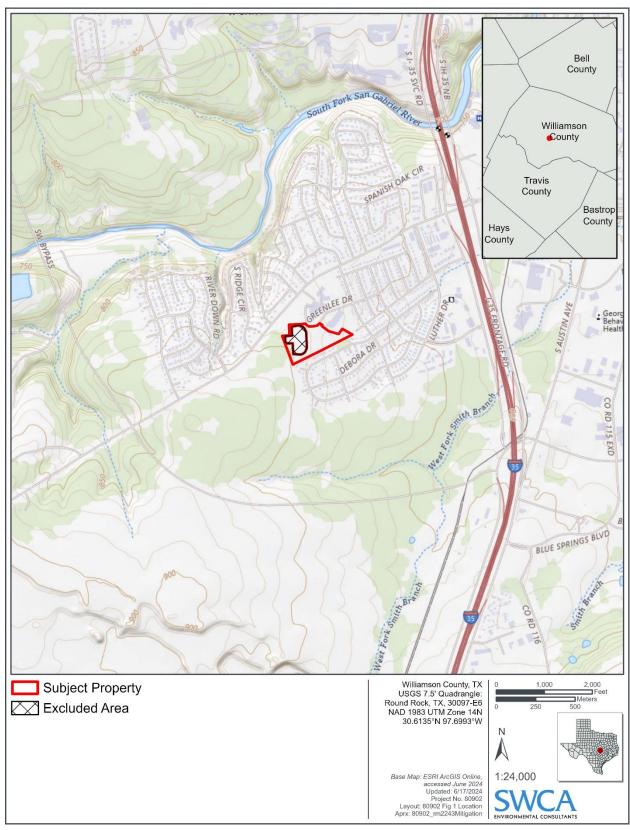


Figure 1. Project location map.

3.2 SOILS

The Natural Resources Conservation Service (2024) identified two soil units within the subject property (Figure 2). Soils within the subject property are mapped in the Eckrant stony clay (EeB) unit and Georgetown stony clay loam (GsB) soil units. Eckrant soils consist of stony clay residuum weathered from limestone occurring on ridges. Soil thicknesses range from 0.5 to 1 feet and are in Soil Group "D." Georgetown soils consist of stony clayey residuum weathered from limestone occurring on ridges. Soil thicknesses range from 1 to 3 feet and are in Soil Group "D." Soils in Group D have a very slow infiltration rate when thoroughly wetted.

The subject property occurs along the Balcones Fault Zone (BFZ) within the Edwards Aquifer Recharge Zone (TCEQ 2024). Structural down-warping occurred with the Gulf of Mexico's ancestral formation during the middle Tertiary. The earth's crust was stretched in response, and the BFZ formed along a zone of weakness, which currently marks the boundary between the Edwards Plateau and the Gulf Coastal Plain in central Texas. The BFZ is characterized by a series of northeast-trending, predominantly normal, nearly vertical, en echelon faults. No evidence of faults was identified by SWCA field personnel crossing the project and none were mapped by Collins (1997).

A Site Geologic Map is presented in Appendix A as Attachment D. Collins (1997) indicates the subject property is underlain by Cretaceous-age Edwards Limestone (Ked). SWCA finds Collins (1997) interpretation of the geology to be generally accurate. The Stratigraphic Column is included in Appendix A, Attachment B. The Edwards limestone is described by Barnes (1974) as:

...limestone, dolomitic limestone, and marl, massive to thin beds, chert, and fossiliferous; fossils include *rudists*. Shallow subtidal-flat cycles. Honeycomb textures, voids in collapse breccias, and cavern systems. Accounts for most of the Edwards aquifer strata. Thickness is between 100 and 300 ft; thins northward.

Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Group and Georgetown Formation are exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features are commonly formed along joints, fractures, and within bedding plane surfaces in the Edwards Group and Georgetown Formation. Water that recharges the Edwards Aquifer in the vicinity of the project commonly discharges near the contact between Edwards Limestone and underlying Comanche Peak Formation or where the land surface intercepts the water table. No springs were observed within the subject property.

3.3 GEOLOGY

3.3.1 Hydrogeologic Assessment

The overall potential for fluid migration to the Edwards Aquifer within the subject property appears relatively high compared to background infiltration rates due to the presence of nine sensitive geologic features within the subject property. The depth to water in the vicinity of the subject property has been measured at 65 to 95 feet below ground surface in nearby Edwards Aquifer well (State ID No. 5827228) (Texas Water Development Board 2024). No wells were observed within the subject property boundary.

The gentle contours shown on the Site Geologic Map (Appendix A: Attachment D) suggest runoff from rainfall reaching the undisturbed portions of the project will flow east-northeast, eventually culminating in West Fork Smith Branch.



Figure 2. Soils map.

3.3.2 Feature Descriptions

Nine features were identified within the project, all of which are ranked as sensitive (Appendix A: Attachment A, Geologic Assessment Table). Seven of the features appeared to be solution cavities that have been covered with concrete caps. Areas around three of the caps show evidence of surface water infiltration, and some soil has been washed out around the caps. The features include the following:

- **TM-BD-01a** is a solution cavity partially covered with a concrete cap. Surface water has infiltrated around the edges of the concrete and washed out portions of soil surrounding the concrete. The current opening is 1 by 1 foot. A tape measure went 8 feet into the feature. Harvestman and organic soil were observed in the feature. Due to the presence of void space and infilling of loose, organic surface sediment, the probability of rapid infiltration is high.
- **TM-BD-01b** is a potential solution cavity covered with a concrete cap. Due to the apparent presence of a capped solution cavity, the probability of rapid infiltration is high.
- **TM-BD-02** is a potential solution cavity covered with a concrete cap. Due to the apparent presence of a capped solution cavity, the probability of rapid infiltration is high.
- **TM-BD-03** is a potential solution cavity covered with a concrete cap. Due to the apparent presence of a capped solution cavity, the probability of rapid infiltration is high.
- **TM-BD-04** is a potential solution cavity covered with a concrete cap. Due to the apparent presence of a capped solution cavity, the probability of rapid infiltration is high.
- **TM-BD-05** is a solution cavity partially covered with a broken concrete cap. Surface water has infiltrated around the edges of the concrete and washed out portions of soil surrounding the concrete. The opening is 2 by 3 by 1.5 feet deep. Due to a presence of void space and infilling of loose, organic surface sediment, the probability of rapid infiltration is high.
- **TM-BD-06** is a solution cavity underneath a large rock. Surface water has infiltrated around the edges of the rock. The opening is 2.5 by 2 by 4 feet deep. Organic soils were observed in the feature. Due to a presence of void space and infilling of loose, organic surface sediment, the probability of rapid infiltration is high.
- TM-BD-07 is a cave named On Campus Cave. The cave entrance is secured by a metal gate surrounded by steel fencing. An entrance pit 13.5 feet deep leads to a multi-room, multi-level cave with overall dimensions of approximately 150 by 80 by 43.5 feet deep. A cave map is presented as Figure 3. The locations of the cave entrance and footprint are presented on the Site Geologic Map (Appendix A: Attachment D). Because the feature is an open cave, the probability of rapid infiltration is high.
- TM-BD-08 is a cave named Off Campus Cave. The cave entrance is located south of the subject property, but the footprint of the cave's subsurface extent occurs beneath a portion of the subject property. Because the feature is an open cave that extends within the limits of the subject property, the feature is considered to have a high probability of rapid infiltration. The locations of the cave entrance and footprint are presented on the Site Geologic Map (see Appendix A: Attachment D).

Buffers are presented on the Site Geologic Map (Appendix A: Attachment D) that incorporate areas within 50 feet in all directions from the edges of the features and the areas within 200 feet upslope within the natural catchment area of the features. The upslope catchment areas of features TM-BD-01 through TM-BD-06 are all within the 50-feet buffers; and therefore, are not displayed on the Site Geologic Map. The buffers were truncated at the subject property boundary.

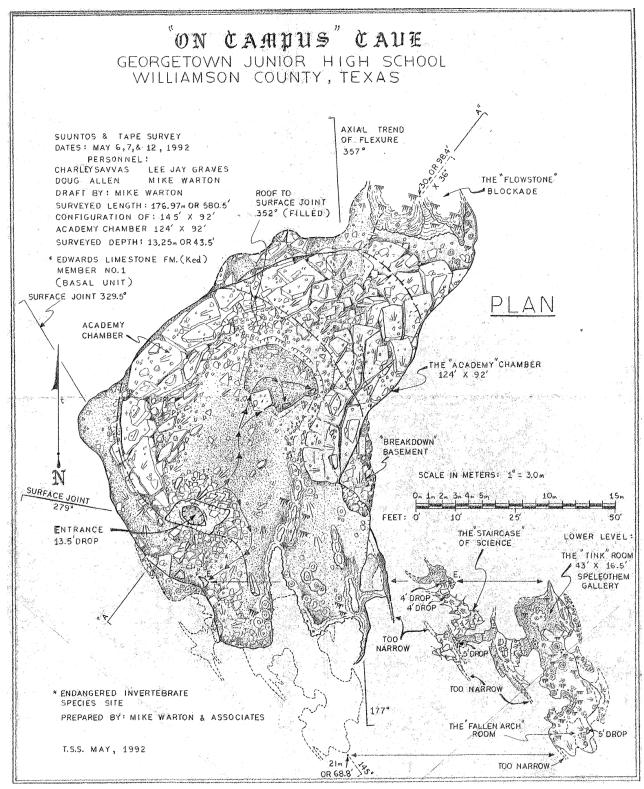


Figure 3. Map of On Campus Cave.

4 LITERATURE CITED

- Barnes, V.E. 1974. Geologic Atlas of Texas, Austin Sheet. University of Texas at Austin, Bureau of Economic Geology. Scale 1:250,000.
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APPENDIX A

Texas Commission on Environmental Quality Forms

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: Philip Pearce, P.G.	Telephone: <u>210.877.2847</u>
Date: <u>June</u> 17, 2024	Fax: <u>210.877.2848</u>
Representing: <u>SWCA Environmental Consultants; T</u> Company and TBPG or TBPE registration number)	BPG Firm Registration No. 50159 (Name of
Signature of Geologist:	
Olil C. Pear	STATE OF TEXTS
Regulated Entity Name: Leander Road Mitigation I	
Project Information	Philip C. Pearce
1. Date(s) Geologic Assessment was performed: 5	691 CENSE 691
2. Type of Project:	ALZ GEN
WPAP SCS Lesstion of Brojects	☐ AST ☐ UST
3. Location of Project:	
Recharge Zone Transition Zone Contributing Zone within the Transition Zone	ne

4.		ent A - Geo	ologic Assessmen	t Table.	Complete	d Geol	ogic Asses	sment Table				
			Table) is attached.		complete	u 000.	06.07.0000					
5.	Hydrologi 55, Apper	ic Soil Gro ndix A, Soi	roject site is summups* (Urban Hydroll Conservation Second type)	ology for	or Small W 986). If the	atershe ere is m	eds, Techn nore than	ical Release No. one soil type on				
	ble 1 - Soil U	-			Soil Na	ime	Group*	Thickness(feet)				
Ch	aracteristics	and Thi	ckness									
	Soil Name	Group*	Thickness(feet)]	* Soil (Groun I	Definitions	(Abbreviated)				
E	ckrant stony clay (EeB)	D	0-1		A.	Soils h	naving a hi vhen thord	igh infiltration oughly wetted.				
(Georgetown stony clay loam (GsB)	D	0-1		C.	infiltro wette Soils h rate w	ation rate d. aaving a sl when thord	ing a moderate on rate when thoroughly ing a slow infiltration en thoroughly wetted. ing a very slow				
					υ.		ation rate	when thoroughly				
6.	members top of the	, and thicl	ratigraphic Colum knesses is attache phic column. Oth blumn.	d. The c	utcroppin	g unit,	if present,	, should be at the				
7.	including potential	any featu for fluid n	e Geology. A narra res identified in the novement to the E s is attached.	ne Geolo	ogic Assess	ment 1	rable, a di	scussion of the				
8.			e Geologic Map(s Plan. The minimu	-	_	•	must be t	he same scale as				
	Site Geol	ogic Map S	n Scale: 1" = <u>100</u> ' Scale: 1" = <u>100</u> ' e (if more than 1 s	oil type): 1" = <u>416</u>	<u>.6</u> '						
9.	Method of co	ollecting p	ositional data:									
		_	System (GPS) tech lease describe me	•	data colle	ction: _						
10	The proje	ct site and	d boundaries are o	learly s	hown and	labeled	on the Si	te Geologic Map.				

11. $ imes$ 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 describe 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 are (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.) ☐ The wells are not in use and have been properly abandoned. ☐ The wells are not in use and will be properly abandoned. ☐ The wells are 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.
$ \wedge $ There are no wells of 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

GEOLO	PROJECT NAME: Leander Mitigation Project																			
LOCATION FE						EATURE CHARACTERISTICS									EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4		5	5A 6		7	8A	8B	9	1	10	11		12	
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)		TREND O (DEGREES)		DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY		ENT AREA RES)	TOPOGRAPHY	
						Х	Υ	Z		10						<40	≥40	<1.6	≥1.6	
TM-BD-01a	30.6130717°	-97.6996708°	SC	20	Ked	1	1	8	-				N	35	55		Х	Х		Hillside
TM-BD-01b	30.6130584°	-97.6996487°	SC	20	Ked	3	3	0.5	-				Х	35	55		Х	Х		Hillside
TM-BD-02	30.6131144°	-97.6996293°	SC	20	Ked	4	3	0.5	-				Х	35	55		Х	Х		Hillside
TM-BD-03	30.6131357°	-97.6995817°	SC	20	Ked	5	4	0.5	-				Х	35	55		Х	Х		Hillside
TM-BD-04	30.6131790°	-97.6995736°	SC	20	Ked	4	3	0.5	-				Х	35	55		Х	Х		Hillside
TM-BD-05	30.6131755°	-97.6996326°	SC	20	Ked	2	3	1.5	-				0	35	55		Х	Х		Hillside
TM-BD-06	30.6129995°	-97.6997419°	SC	20	Ked	2.5	2	4	-				0	35	55		Х	Х		Hillside
TM-BD-07	30.613923°	-97.699116°	С	30	Ked	120	80	43.5	N37ºE	10			N	50	90		Х		Х	Hillside
TM-BD-08	30.613805°	-97.697647°	С	30	Ked	115	35	?	N10ºE	10			N	50	90		Х		Х	Hillside

* DATUM: Geographic Latitude Longitude Decimal Degrees NAD83

2A TYPE	TYPE	2B POINTS
С	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
0	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

	8A INFILLING
N	None, exposed bedrock
С	Coarse - cobbles, breakdown, sand, gravel
0	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
Х	Other materials

12 TOPOGRAPHY Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

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: June 17, 2024

Sheet 1 of 1

(Di) C. (saran

TCEQ-0585-Table (Rev. 10-01-04)

ATTACHMENT B Stratigraphic Column

Stratigraphic Column

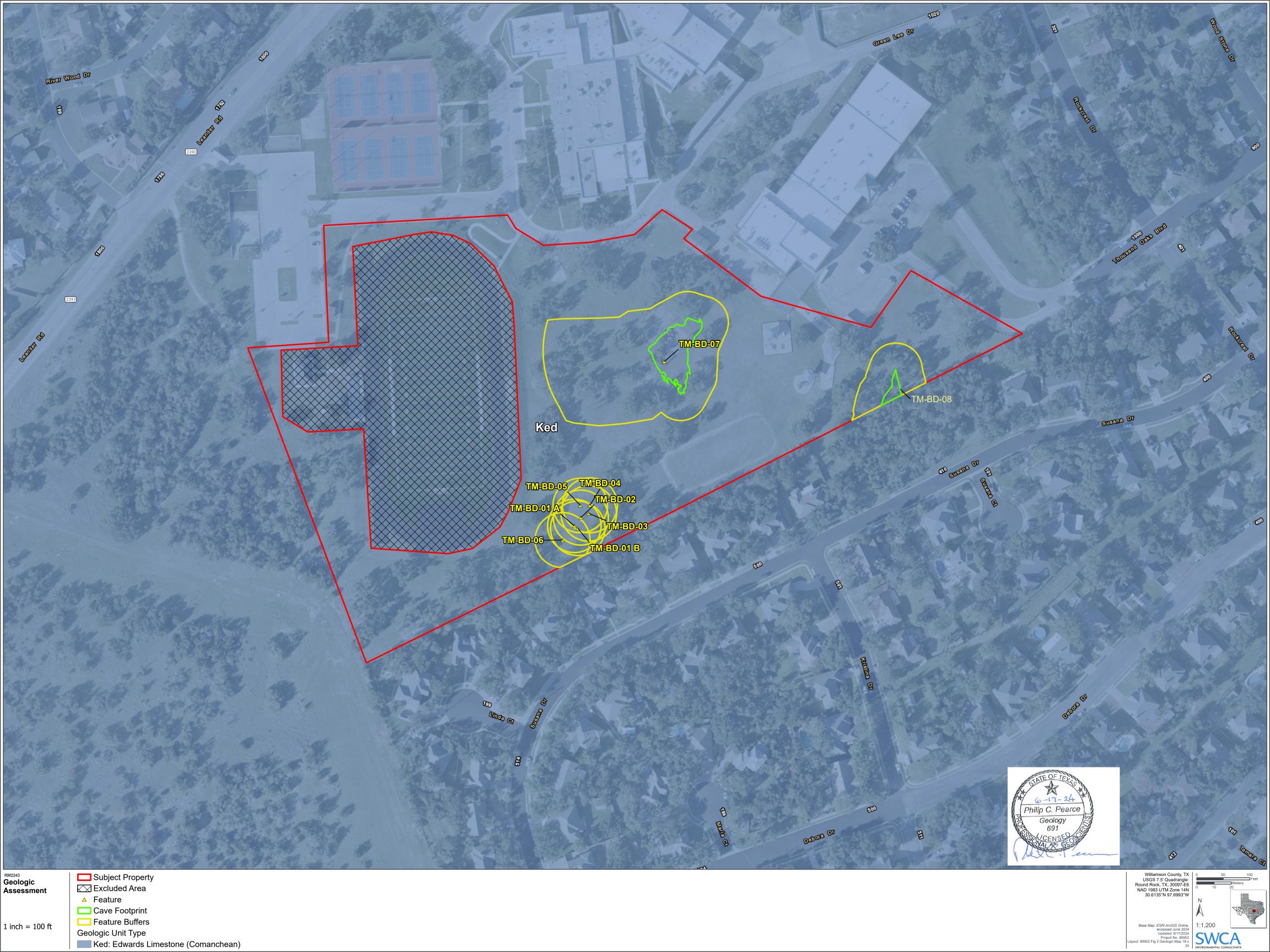
		Navarro and Taylor Groups, undivided; 600 feet thick					
Upper Cretaceous	Upper Confining Units	Austin Group; 325–420 feet thick					
		Eagle Ford Group; 25–65 feet thick					
Uppe	Buda Limestone; 40–50 feet thick						
		Del Rio Clay; 40–70 feet thick					
		Georgetown Formation; 30–80 feet thick					
eous	Edwards Aquifer	Edwards Limestone; Up to 200 feet thick					
r Cretac		Comanche Peak Formation; 80 feet thick					
Lowel	Lower Confining	Walnut Formation; Up to 120 feet thick					
	Units	Upper member of Glen Rose Limestone; 500 feet thick					

Note: The shaded area represents the lithology that outcrops in the project.

ATTACHMENT C Narrative Description of Site Geology

ATTACHMENT D

Site Geologic Map



APPENDIX B

Photographic Log



Photo 1. Feature TM-BD-01a.



Photo 2. Feature TM-BD-01b.



Photo 3. Feature TM-BD-02.



Photo 4. Feature TM-BD-03.



Photo 5. Feature TM-BD-04.



Photo 6. Feature TM-BD-05.



Photo 7. Feature TM-BD-06.



Photo 8. Feature TM-BD-07 "On Campus Cave."



Photo 9. Site overview photograph.

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: Joshua Richter, PE

Date: 7/1/2025

Signature of Customer/Agent:

Regulated Entity Name: Georgetown ISD Tippit Middle School Green Ribbon

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 - Nature of Exception

TxDOT will be installing a walking path (sidewalks) and several planting beds on the south side of Tippit Middle School as mitigation for impacts to federally protected species incurred by the RM 2243 project from US 183A to SW Bypass. These landscaping improvements are being implemented with the intent to restore On-Campus Cave and its associated cave fauna, establish pollinator habitat, and provide an educational opportunity for the students and surrounding community.

Due to the minimal amount of impervious cover being added in the proposed site improvements, TxDOT is requesting a Water Pollution Abatement Plan Exception. The school site and facilities supporting the campus have already been built and operated in full capacity for many years. Equivalent water quality protection will be implemented via proposed Vegetated Filter Strips; sufficient temporary erosion and sedimentation controls will also be implemented during construction. Erosion control logs will surround the cave entrance protecting it from runoff water. Equivalent water quality protection, erosion and sedimentation controls, BMP installation and maintenance, and any associated calculations or exhibits are detailed in the following attachments.

Attachment B – Documentation of Equivalent Water Quality Protection

To provide adequate water quality protection for the site, a series of six Vegetated Filter Strips (VFS) are to be placed on the downgradient side of the proposed sidewalk improvements. TCEQ RG-348 requires a 15-foot VFS width, but utilizing the TCEQ Vegetated Filter Strip Geometry for Sidewalks and Shared Use Paths Only (see Table 1 below) recommendations, the 6-foot proposed sidewalk will only require a VFS width of 3.1 feet. Slope allowances will need to adhere to the 20% maximum set by TCEQ recommendations. The attached construction plans demonstrate the required 3.1-foot vegetated filter strip buffer on downgradient sides of the sidewalk and the sidewalk typical section shows the 20% maximum slope.

Table 1 - Vegetated Filter Strip Geometry for Sidewalks and Shared Use Paths Only

Trail Width (ft)	VFS Width (ft)
4	2.1
6	3.1
8	4.2
10	5.2
12	6.3
14	7.3

Since the VFS TSS removal efficiency is 85%, placing a VFS along the entire stretch of proposed sidewalk will ensure that all pollutant runoff will be properly treated in compliance with both TCEQ (80%) and City of Georgetown (85%) TSS removal requirements. The 0.24 acres of impervious cover generated by the proposed sidewalk improvements require treatment of 209 pounds of TSS. Utilizing the maximum load removal capacity for the VFS, 226 pounds of TSS are provided. To demonstrate the VFSs provide adequate TSS removal, the TSS Removal Calculations for the sidewalk improvements have been attached below. To ensure the VFSs are installed on the downgradient sides of the sidewalk such that the pollutant runoff is properly captured and treated, notes have been added to the construction plans to aid contractors in proper BMP installation.

Texas Com	mission on Environmental Quality						
TSS Pomovs	l Calculations 04-20-2009			Project Name:	Goorgotown	n ISD Tippit MS WF	
133 Kelliova	Calculations 04-20-2009			Date Prepared:	_	TIOD TIPPIL ING WE	AF
				Date Frepareu.	0/20/2023		
Additional in	formation is provided for cells with a red triangle	in the uppe	r right cor	ner. Place the cu	rsor over 1	the cell.	
	blue indicate location of instructions in the Technical						
	hown in red are data entry fields.						
	hown in black (Bold) are calculated fields. Chan	ges to these	fields will	remove the equa	ations used	I in the spreads	sheet.
	, ,			•			
1. The Required	Load Reduction for the total project:	Calculations fro	om RG-348				
	Page 3-29 Equation 3.3: L _M =	27.2(A _N x P)					
		Daminal TOO		 		000/ -f :	-111
where:				Iting from the proposed	a development	= 80% of increased	3 10aa
		Average annua		area for the project			
	r=	Average arriua	i precipitatioi	i, inches			
Site Data:	Determine Required Load Removal Based on the Entire Project						
	County =						
	Total project area included in plan * =		acres				
	Predevelopment impervious area within the limits of the plan * =		acres				
Total p	ost-development impervious area within the limits of the plan* = Total post-development impervious cover fraction * =		acres				
	P =		inches				
	L _{M TOTAL PROJECT} =	209	lbs.		00000	FTELL	
* The values e	ntered in these fields should be for the total project area.				25 TAIL.	15.45	
					₹*: ₹	₹	
Nu	mber of drainage basins / outfalls areas leaving the plan area =	1			′.` <i>!</i>	N	
	3				JOSHUA T	RICHTER	
					141	234	
2. Drainage Ba	sin Parameters (This information should be provided for ea	ch basin):			1CE	NSED CITY	
					SION	AL EXT	
	Drainage Basin/Outfall Area No. =	VFS			1/1/4	Wichter	
	Total drainage basin/outfall area =	0.24	acres			. /	
Prede	= evelopment impervious area within drainage basin/outfall area		acres		7/7/2	2025	
	evelopment impervious area within drainage basin/outfall area =		acres		, ,		
Post-deve	lopment impervious fraction within drainage basin/outfall area =						
	L _{M THIS BASIN} =	209	lbs.				
2 Indianta tha	proposed BMP Code for this basin.						
5. Indicate the	proposed biving code for this pasin.						
	Proposed BMP =	Vegetated Filt	er Strips				
	Removal efficiency =	85	percent				
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by	tne selected Bl	vir Type.				
	RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficience	ν) χ P ν (Δ. ν	34 6 + A ₂ x 0 54)			
	NO-040 Fage 3-00 Equation 3.7. Eg =	DIVIL GITICIBILE	,,∧ı∧(∩ X	. O O + . Ap A U. O+)			
where:	A _C =	Total On-Site d	rainage area	in the BMP catchmen	t area		
				n the BMP catchment a			
				the BMP catchment ar			
				s catchment area by th		BMP	
	-K				, ,		
	A _C =	0.24	acres				
	A _I =	0.24	acres				
	$A_p =$	0.00	acres				
	L _R =	226	lbs				
5. Calculate Fra	action of Annual Runoff to Treat the drainage basin / outfall	area					
	Desired I	200	lha				
	Desired L _{MTHIS BASIN} =	226	lbs.				
	F =	1.00					
		1.00					

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: <u>Joshua Richter, PE</u>
Date: <u>7/1/202</u> 5
Signature of Customer/Agent:
Joshu Richte
Regulated Entity Name: Georgetown ISD Tippit Middle School Green Ribbon

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.

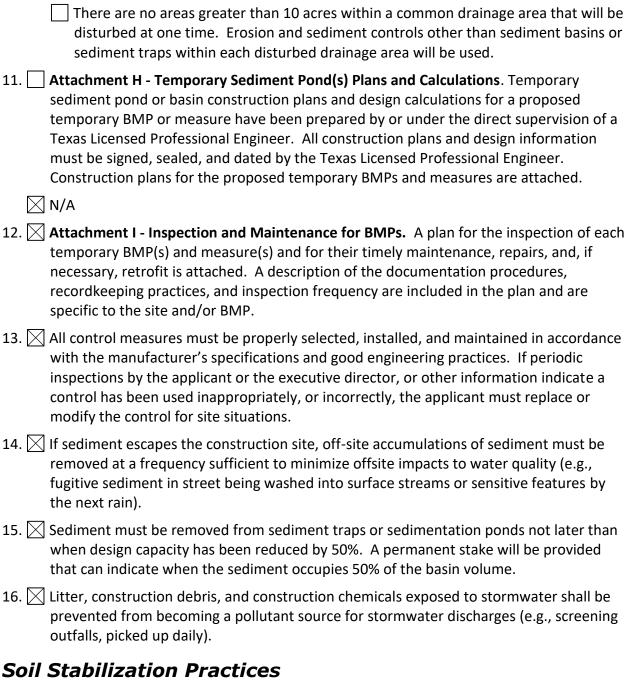
	 Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year. Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility 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.
Se	equence 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: Smith Branch - San Gabriel River

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.



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 – Spill Response Action

No spills of hydrocarbons or hazardous substances are expected. However, in the event that such an incidence does occur, the contractor should carefully follow the following TCEQ guidelines:

Cleanup:

- 1. Onsite personnel must be trained in spill prevention and spill clean up.
- 2. Clean up leaks and spill immediately.
- 3. Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If he spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- 4. Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly.

Minor Spills:

- 1. Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- 2. Use absorbent materials on small spills rather than hosing down or burying the spill.
- 3. Absorbent materials should be promptly removed and disposed of properly.
- 4. Follow the practice below for a minor spill:
 - Contain the spread of the spill.
 - Recover spilled materials.
 - Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills:

Semi-significant spills can still be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities. Spills should be cleaned up immediately, using the following practices:

- 1. Contain spread of the spill.
- 2. Notify the project foreman immediately.
- 3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter, and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- 4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- 5. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills:

For highly toxic materials, the Reportable Quantity (RQ) > 25 gallons. For petroleum/hydrocarbon liquids, RQ > 250 gallons (on land) or any amount which creates a "sheen" on water. Only certified Haz-Mat teams will be responsible for handling the material at the site.

For significant or hazardous spills that are in reportable quantities:

- 1. 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. Additionally, in the event of a hazardous material spill, local Williamson County and/or city of Liberty Hill police, fire, and potentially EMS should be contacted in order to initiate the hazardous material response team.
- 2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 191, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- 3. Notification should first be made by telephone and followed up with a written report of which one copy is to be kept on-site in the report binder and one copy is to be provided to the TCEQ.
- 4. The services of a spill 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.
- 5. Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sherriff's Office, Fire Department, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tceq.state.tx.us/response/spills.html

Attachment B - Potential Sources of Contamination

No particular activity or process during construction of the project is anticipated to present a significant risk of being a potential source of contamination. However, during regular construction operations, several common and minor risks of contamination are anticipated. Should any unforeseen mishaps occur during construction, the contractor shall follow the guidelines set forth in "Attachment A – Spill Response Plan".

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing
- Grading and excavation
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area small fueling, minor equipment maintenance, sanitary facility.
- Materials Storage Area solvents, adhesives, paving materials, aggregates, trash, etc.
- Construction Activities paving, concrete pouring
- Concrete washout areas

Potential on-site pollutants:

- Fertilizer
- Concrete
- Glue, adhesives
- Gasoline, diesel fuel, hydraulic fluids, antifreeze
- Sanitary toilets

Attachment C - Sequence of Major Activities

- Temporary erosion and sedimentation controls are to be installed as indicated on the approved subdivision construction plans and in accordance with the stormwater pollution prevention plan (SWPPP) that is required to be posted on the site. Install tree protection and initiate tree mitigation measures.
- 2. The environmental project manager, and/or site supervisor, and/or designated responsible party, and the general contractor will follow the storm water pollution prevention plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with city inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion and sedimentation plan.
- 3. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the storm water pollution prevention plan (SWPPP) posted on the site.
- 4. A sequence of major construction activities, as well as an estimated area of disturbance for each, is listed below:
 - I. Clearing and grubbing 0.29 acres
 - II. Rough Cut BMP's 0.29 acres
 - III. Install final BMP's and stabilize 0.29 acres
 - IV. Paving, striping, etc. 0.25 acres
 - V. Re-vegetation 1.1 acres
 - VI. Landscaping 1.1 acres
- 5. Upon completion of construction and re-vegetation, the design engineer shall submit an engineer's letter of concurrence to the City of Georgetown indicating that construction, including re-vegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate city inspector.
- 6. After construction is complete and all disturbed areas have been re-vegetated per plan to at least 90 percent established, remove the temporary erosion and sedimentation controls and complete any necessary final re-vegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the permanent BMPs.

Attachment D – Temporary Best Management Practices and Measures

Prior to the commencement of any construction activity, the contractor shall install erosion control logs per the Erosion and Sedimentation Control Plan. All temporary BMPs are to be installed per TCEQ and local requirements.

As surface water flows from and through disturbed areas, the proposed temporary BMPs will prevent pollution by filtering the increased sediment loads and other pollutant sources (listed in "Attachment B – Potential Sources of Contamination") prior to any runoff leaving the site. As shown in the attached site plan, erosion control logs will be utilized downstream of any grading and construction activities to remove debris and sediment from run-off in the area.

In using the aforementioned treatment methods and maintaining natural drainage patterns downgradient of the proposed site, any flow to naturally occurring sensitive features, both known and unknown, will be maintained. Erosion control logs will surround the cave entrance protecting it from runoff water.

Attachment E – Request to Temporarily Seal a Feature

Not applicable to this project.

Attachment F - Structural Practices

The following temporary BMP structural practices will be employed on the site:

A. Erosion Control Logs - Used for soil stabilization and sediment control in erosion-prone areas, such as slopes, hillsides, and construction sites. The logs are strategically placed to slow down water flow, allowing sediment to settle and preventing soil from being washed away. Runoff is managed as it passes through the natural materials of the logs.

Attachment G – Drainage Area Map

Drainage area maps are shown in the attached construction plans.

Attachment H – Temporary Sediment Pond(s) Plans and Calculations

Not applicable to this project.

Attachment I – Inspection and Maintenance for BMPs

The inspection and maintenance of temporary BMPs will be made according to TCEQ RG-348, Complying with the Edwards Aguifer Rules: Technical Guidance on Best Management Practices.

Inspection Personnel:

Inspections shall be conducted by qualified representatives of the contractor acting on behalf of the owner or a designated party, if hired separately by the owner. Each operator must delegate authority to the specifically described position or person performing inspections, as provided by 30 TAC 305.128, as an authorized person for signing reports and performing certain activities requested by the director or required by the TPDES general permit. This delegation of authority must be provided to the director of TCEQ in writing and a copy shall be kept along with the signed effective copy of the SWPPP.

Inspection Schedule and Procedures:

An inspection shall occur weekly and after any rain event.

The authorized party shall inspect all disturbed areas of the site, areas used for storage of materials that exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.

Disturbed areas and areas used for storage of materials that are exposed to precipitation or within limits of the 1% annual chance (100 year) floodplain must be inspected for evidence of, or the potential for, pollutants entering the runoff from the site. Erosion and sediment control measures identified in the plan must be observed to ensure that they are operating correctly. Observations can be made during wet or dry weather conditions. Where discharge locations or points are accessible, they must be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. This can be done by inspecting receiving waters to see where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

Based on the results of the inspection, the site description and the pollution prevention measures identified in the plan must be revised as soon as possible after an inspection that reveals inadequacies. The inspection and plan review process must provide for timely implementation of any changes to the plan within 7 calendar days of the inspection.

An inspection report shall be completed, which summarizes the scope of the inspection, name(s) and qualifications of personnel conducting the inspection, the date(s) of the inspection, and major observations relating to the implementation of the SWPPP. Major observations shall include, as a minimum, location of discharges of sediment or other pollutants from the site, location of BMPs that need to be maintained, location of BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where BMPs are needed.

Actions taken as a result of the inspections must be described within, and retained as a part of, the SWPPP. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWPPP and the TPDES general permit. The report must be signed by the authorized representative delegated by the operators in accordance with TAC 305.128.

Maintenance and Corrective Actions – Maintenance of erosion control facilities shall consist of the minimum requirements as follows:

- A. In ongoing construction areas inspect erosion control improvements to confirm facilities are in place and operable. Where facilities have been temporarily set aside or damaged due to construction activity, place facilities in service before leaving job site.
- B. If weather forecast predicts possibility of rain, check entire facilities throughout site to ensure that they are in place and operable. If job site weather conditions indicate high probability of rain, make special inspection of erosion control facilities.
- C. After rainfall events, review erosion control facilities as soon as site is accessible. Clean rock berms, construction entrances, and other structural facilities. Determine where additional facilities or alternative techniques are needed to control sediment leaving site.
- D. After portions of site have been seeded, review these areas on regular basis in accordance with project specifications to assure proper watering until grass is established. Re-seed areas where grass is not well-established.
- E. Spills are to be handled as specified by the manufacturer of the product in a timely and safe manner by qualified personnel. The site superintendent will be responsible for coordinating spill prevention and cleanup operations.
- F. Concrete trucks will discharge extra concrete or wash out drum only at an approved location on site. Residual product shall be properly disposed of.
- G. Inspect vehicle entrance and exits for evidence of off-site tracking and correct as needed.
- H. Remove sediment from traps/ponds no later than when the design capacity has been reduced by 50%.
- If sediment escapes the site, the contractor, where feasible and where access is available, shall collect and remove sedimentation material by appropriate non-damaging methods.
 Additionally, the contractor shall correct the condition causing discharges.
- J. If inspections or other information sources reveal a control has been used incorrectly, or that control is performing inadequately, the contractor must replace, correct, or modify the control as soon as practical after discovery of the deficiency.

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Silt fence will be used during the period of construction near the perimeter of the disturbed area to intercept sediment while allowing water to percolate through. Silt fencing will be installed prior to any site clearing. This silt fence will remain in place until the disturbed area is permanently stabilized. Tree protection fencing will be installed around all protected trees. A stabilized pad of crushed stone will be placed at the point where traffic will be entering and leaving the construction site to eliminate the tracking or flowing of sediment onto public rights-of-way. Once all site grading activities and landscaping plantings have been completed, all disturbed areas and exposed soil will be revegetated with hydro-mulch as needed. All controls will remain in place until the revegetated areas are permanently stabilized.

If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization (via hydro-mulch revegetation) in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.

Should construction activities be interrupted for a period of at least 4 weeks of non-activity, Contractor shall revegetate all disturbed areas as required for permanent revegetation. Contractor shall keep all temporary BMPs in place until the disturbed areas become permanently stabilized.

Permanent 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)(C), (D)(Ii), (E), and (5), 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 **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Joshua Richter, PE

Date: 7/1/2025

Signature of Customer/Agent

Regulated Entity Name: Georgetown ISD Tippit Middle School Green Ribbon

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1.	Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
	□ N/A
2.	These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
	The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

	A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is:
	□ N/A
3.	Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
	□ N/A
4.	Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
	 ☐ The site will be used for low density single-family residential development and has 20% or less impervious cover. ☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
	more than 20% impervious cover. \square The site will not be used for low density single-family residential development.
5.	The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
	Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached. The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover. The site will not be used for multi-family residential developments, schools, or small
6.	business sites.
	IALBUBUNEN D'DIVIES IVI VURIBUIEN SWINIMARI.

		 A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached. No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached. Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7.	\boxtimes	Attachment C - BMPs for On-site Stormwater.
		 A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached. Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8.		Attachment D - BMPs for Surface Streams . A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
	\boxtimes	N/A
9.		The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
		 The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed. Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10.		Attachment F - Construction Plans . All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
		 ✓ Design calculations (TSS removal calculations) ✓ TCEQ construction notes ✓ All geologic features ✓ All proposed structural BMP(s) plans and specifications
		N/A

11. Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
Prepared and certified by the engineer designing the permanent BMPs and measuresSigned by the owner or responsible party
Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofitA discussion of record keeping procedures
□ N/A
12. Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
⊠ N/A
13. Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
□ N/A
Responsibility for Maintenance of Permanent BMP(s)
Responsibility for maintenance of best management practices and measures after construction is complete.
14. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
□ N/A
15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
□ N/A

Attachment A – 20% or Less Impervious Cover Declaration

Not applicable to this project.

Attachment B – BMPs for Upgradient Stormwater

Upgradient stormwater can be characterized as flowing from adjacent properties which contain either no impervious cover or are being treated by existing BMPs. The upgradient stormwater is being conveyed through the proposed site and ultimately to the Smith Branch–San Gabriel River.

Attachment C - BMPs for On-Site Stormwater

On-site stormwater for will be treated by a series of six Vegetated Filter Strips. The BMPs proposed within this plan account for all proposed impervious cover on the site. The locations and calculations for these BMPs can be seen in the attached construction plans for reference.

Attachment D - BMPs for Surface Streams

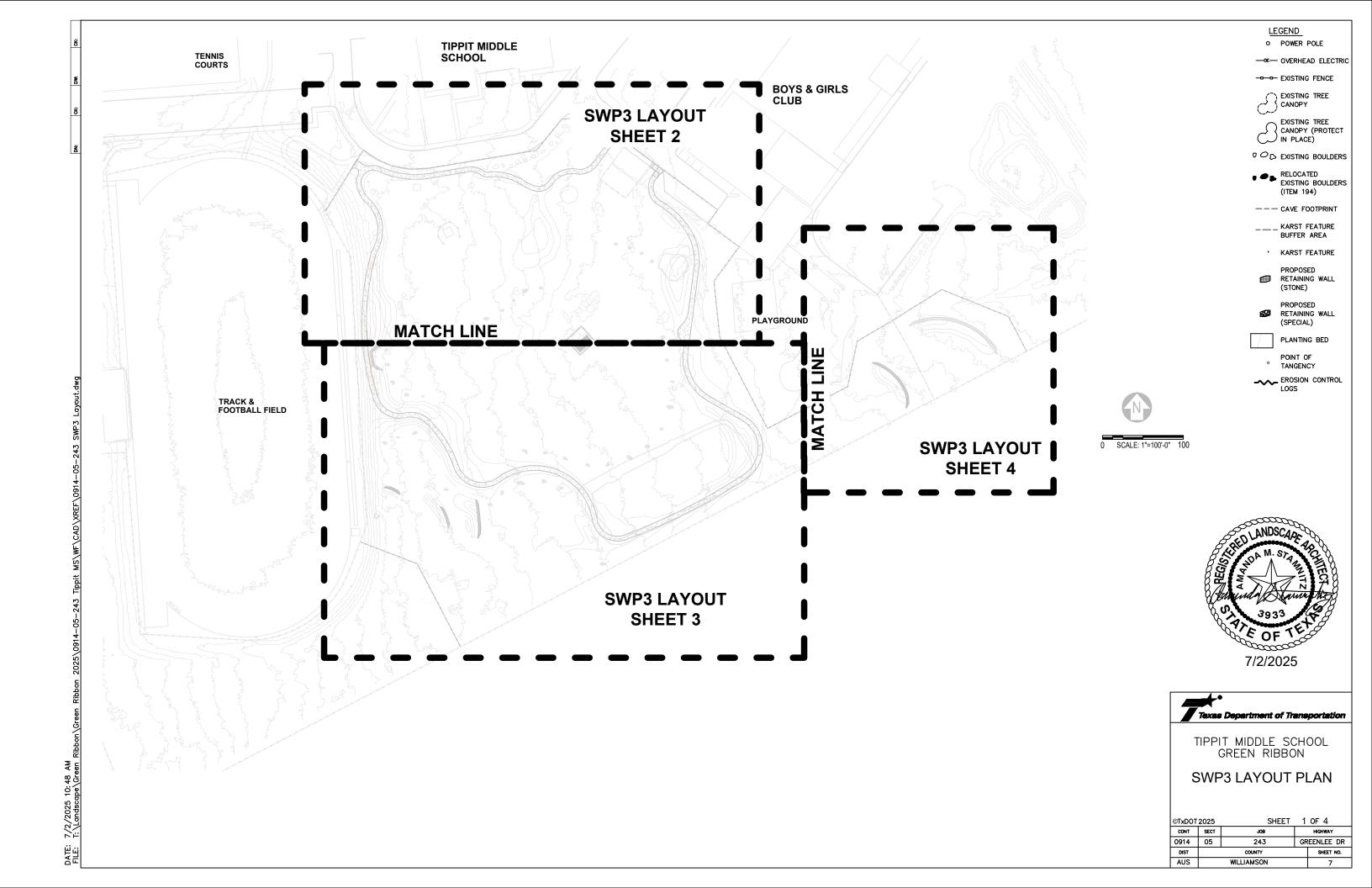
No BMPs are proposed specifically for surface streams. Proposed on-site BMPs and drainage systems are designed to maintain existing flow patterns.

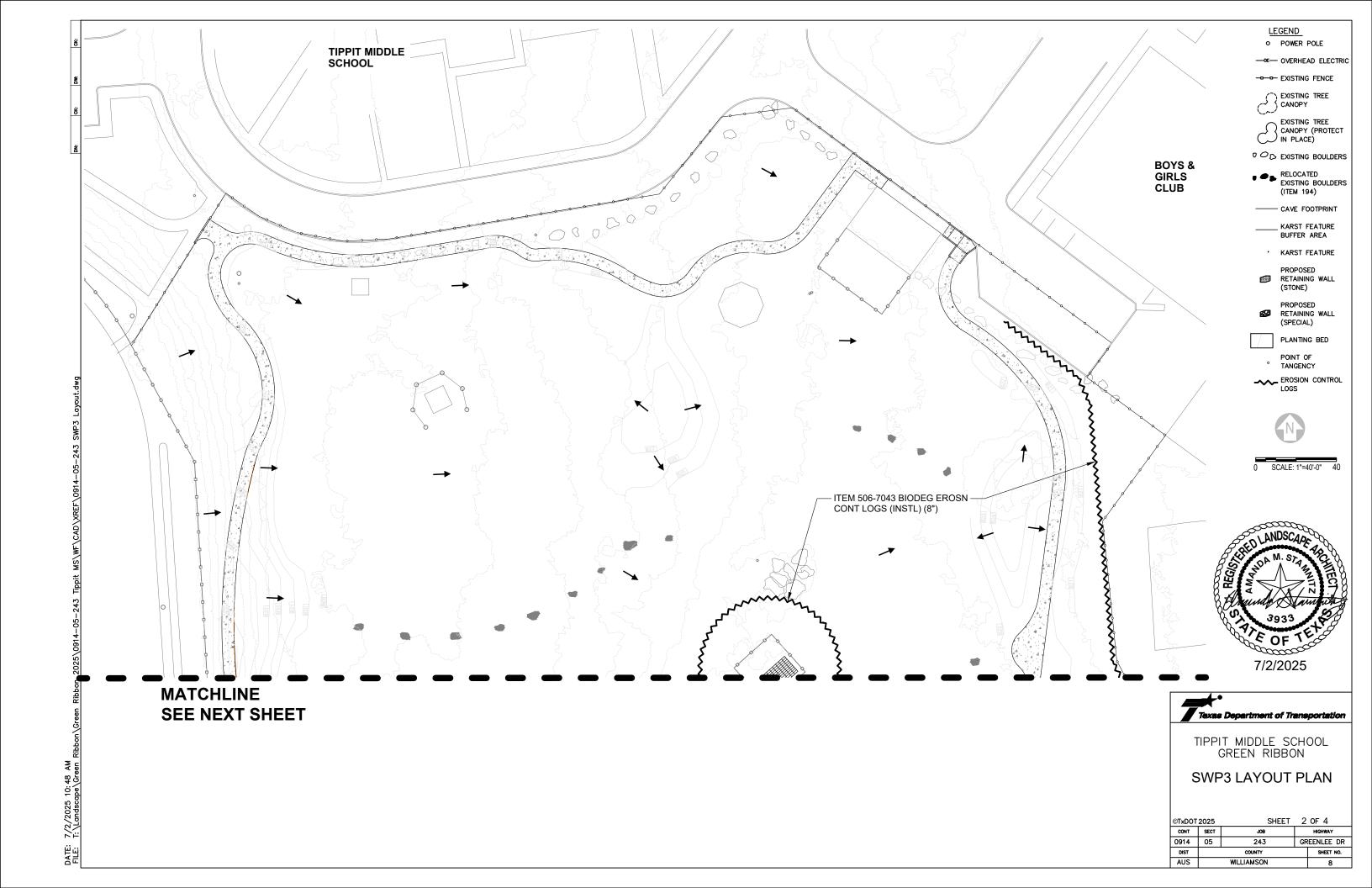
Attachment E – Request to Seal a Feature

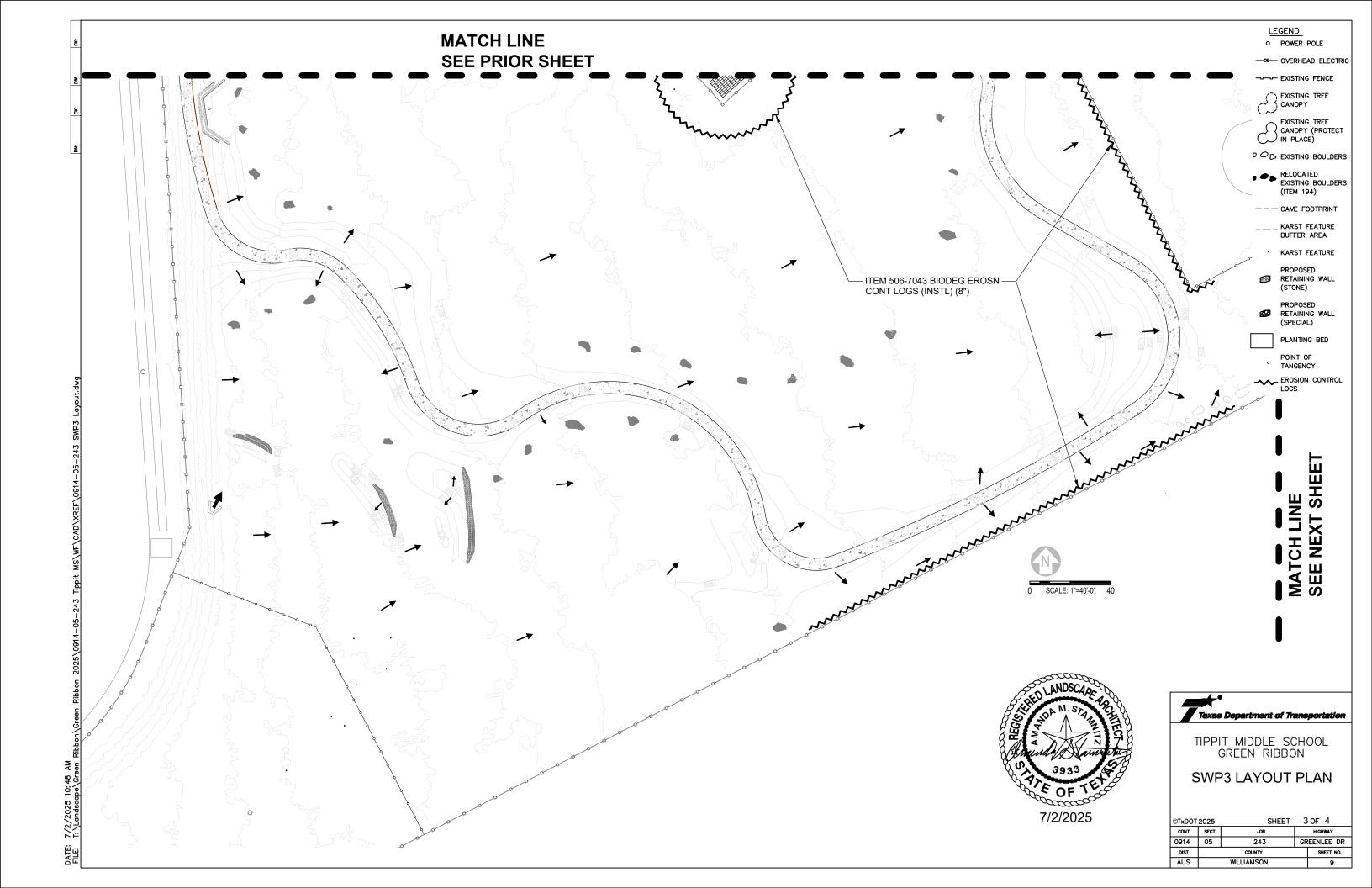
Not applicable to this project.

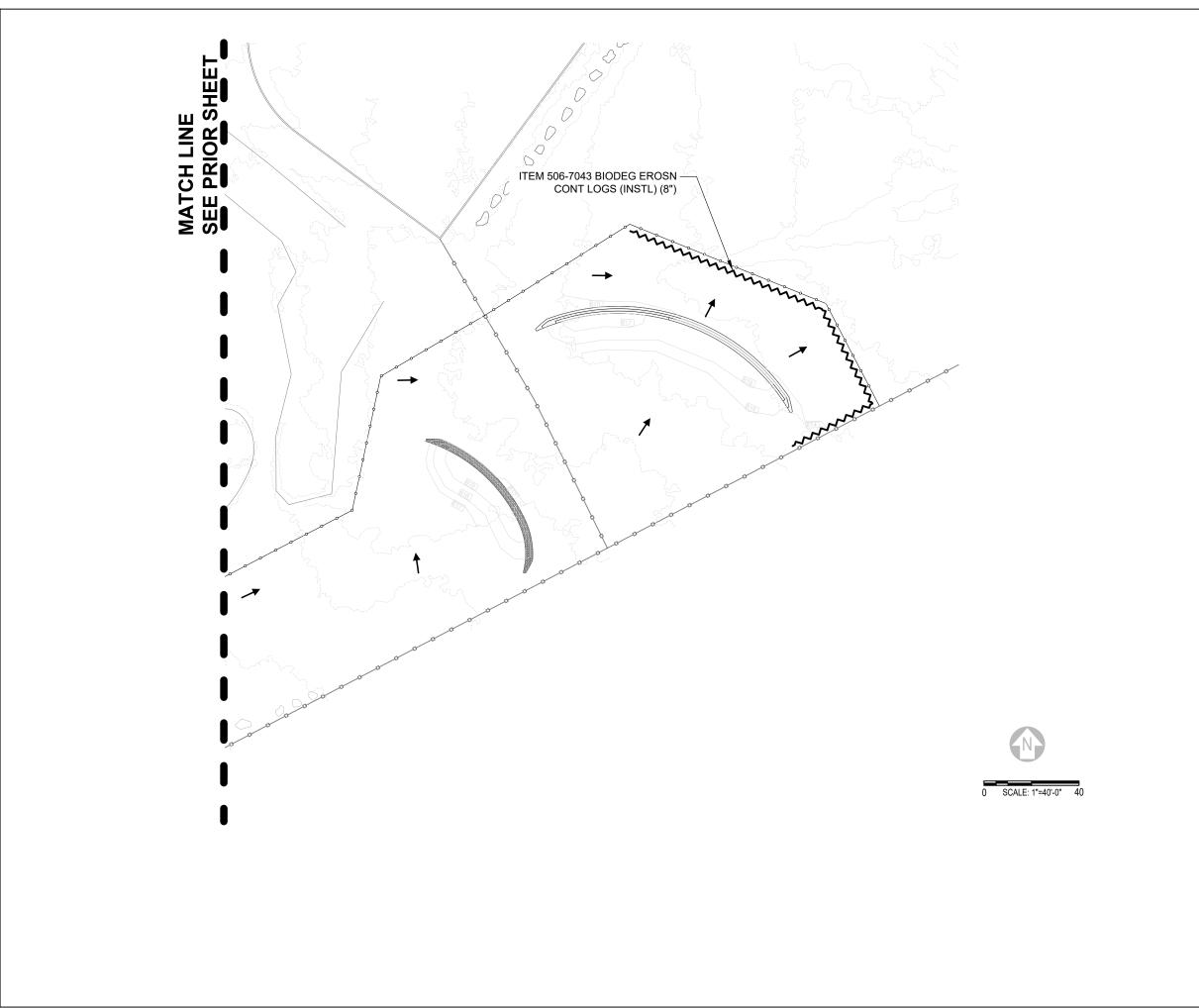
Attachment F - Construction Plans

Construction sheets for permanent BMPs, proposed storm improvements, and erosion controls are attached.









<u>LEGEND</u> O POWER POLE

—Œ— OVERHEAD ELECTRIC

---- EXISTING FENCE

EXISTING TREE CANOPY

EXISTING TREE CANOPY (PROTECT IN PLACE)

O OD EXISTING BOULDERS

RELOCATED
EXISTING BOULDERS
(ITEM 194)

--- CAVE FOOTPRINT ---- KARST FEATURE BUFFER AREA

· KARST FEATURE

PROPOSED

RETAINING WALL (STONE)

PROPOSED RETAINING WALL (SPECIAL)

PLANTING BED

POINT OF TANGENCY

EROSION CONTROL LOGS

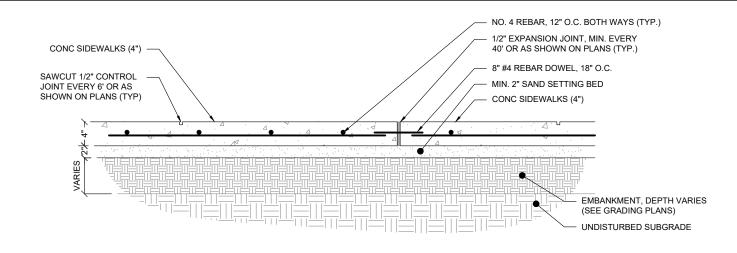


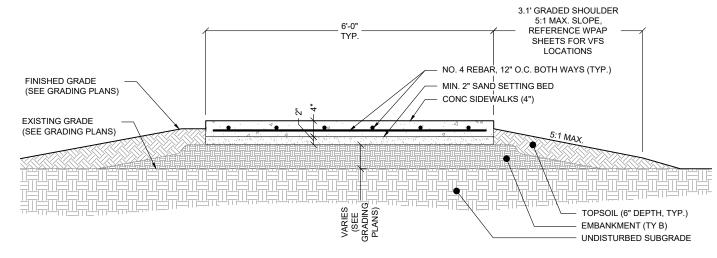


TIPPIT MIDDLE SCHOOL GREEN RIBBON

SWP3 LAYOUT PLAN

©TxDOT	2025	SHEET	4	of 4	
CONT	SECT	JOB	HIGHWAY		
0914	05	243	GREENLEE DR		
DIST		COUNTY	SHEET NO.		
AUS		WILLIAMSON	10		





CONC SIDEWALKS (4") SECTION: TYPICAL EXPANSION JOINT / CONTRACTION JOINT JULY 120 ITEM 531-7001

ITEM 531-7001 SCALE: 3/4" = 1'

2 CONC SIDEWALKS (4") SECTION 20 ITEM 531-7001

EXISTING CONC SIDEWALK

8" #4 REBAR DOWEL, 18" O.C.

1/2" EXPANSION JOINT

M 531-7001 SCALE: 1/2" = 1'

CONC SIDEWALKS (4")

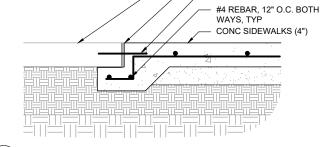
1/2" EXPANSION JOINT

8" #4 REBAR DOWEL, 18" O.C.

LANDSCAPE EDGE

CONCRETE LANDSCAPE EDGE AT SIDEWALK

ITEM 192-7017 SCALE: 3/4" = 1'



SIDEWALK AT EXISTING SIDEWALK
ITEM 423-7001 SCALE: 3/4" = 1'

EMBANKMENT NOTES

- ADJUST EMBANKMENT DEPTHS UNDER AND ADJACENT TO CONC SIDEWALKS (4") AS NEEDED TO MEET PROPOSED GRADES, AS SHOWN ON GRADING PLANS.
- 2. CONCRETE SIDEWALKS MUST MEET SLOPE AND CROSS SLOPE REQUIREMENTS DESCRIBED ON PED-12 STANDARD SHEETS AND IN GENERAL NOTES.

SCHEDULE OF MATERIALS AND FINISHES

BID CODE & DESCRIPTION	ITEM	SPEC. OR FINISH	NOTES
423-7014	LIMESTONE BLOCKS	6"H x 8"W DRY STACK STYLE LIMESTONE, LENGTH VARIES	PROVIDE MOCKUP OF EACH TYPE OF WALL FOR APPROVAL BY LANDSCAPE ARCHITECT/ ENGINEER, BEFORE BEGINNING WALL CONSTRUCTION. COORDINATE WALL CONSTRUCTION WITH SIDEWALK. SUBMIT STONE SAMPLES FOR APPROVAL. APPLY CONSTRUCTION ADHESIVE BETWEEN LAYERS OF STONE, RECESS TO PROVIDE DRYSTACK APPEARANCE.
RETAINING WALL (STONE)	PERFORATED DRAIN	4" PERFORATED PVC PIPE	
	CONSTRUCTION ADHESIVE	CONSTRUCTION-GRADE, OUTDOOR RATED	
423-7029	LIMESTONE BOULDERS	6" - 12" DIAMETER LIMESTONE BOULDERS, COLOR TO MATCH RETAINING WALL (STONE)	
RETAINING WALL (SPECIAL)	FILL MATERIAL	FILL OPEN JOINTS AND VOIDS WITH PLANTING SOIL	
192-7017 LANDSCAPE EDGE (TY I)	CONCRETE LANDSCAPE EDGE	MEDIUM BROOM FINISH	
192-7018	LIMESTONE BLOCK	6" H x 6" D x MAX 3' L DRY STACK STYLE LIMESTONE, COLOR TO MATCH RETAINING WALL (STONE)	SUBMIT SAMPLES & MOCKUP FOR APPROVAL
LANDSCAPE EDGE (TY II)	MORTAR	1/2" MORTAR (WHERE SPECIFIED), MATCH COLOR TO STONE	SUBMIT SAMPLES & MUCKUP FOR APPROVAL
192-7020 ROADSIDE AMENITY (REMOVE & RESET)	LANDSCAPE BOULDERS		EXISTING, ON-SITE BOULDERS TO BE RELOCATED AS SHOWN ON PLANS. PLACE BOULDERS SO THAT THEY ARE STABLE & NOT PRONE TO ROLLING / TIPPING.
552-7009 GATE (SPECIAL)	CAVE GATE		SUBMIT SAMPLES & MOCKUP FOR APPROVAL FOR APPROVAL BY DISTRICT LANDSCAPE ARCHITECT/ENGINEER BEFORE BEGINNING CONSTRUCTION.
550-7001 CHAIN LINK FENCE (INSTALL)(6')	CHAIN LINK FENCE	CLEAR GALVANIZED	
550-7012 GATE (INSTALL)(6'X4')	GATE	4' W x 6' H GATE WITH HORSESHOE LATCH	
556-7001 PIPE UNDERDRAINS (TY 1) (6")	UNDERDRAIN	6" PVC, PERFORATED & UN-PERFORATED AS SPECIFIED	
531-7001 CONC SIDEWALKS (4")	SIDEWALK	MEDIUM BROOM FINISH	

RETAINING WALL NOTES

- MARK PROPOSED LOCATIONS OF LANDSCAPE WALLS FOR APPROVAL. ADJUST LOCATIONS AS DIRECTED.
- 2. BE AWARE THAT THE EXISTING GRADE MAY BE DIFFERENT THAN THAT SHOWN. ADJUST LEVELING PAD AND STONEWORK TO ACCOMMODATE EXISTING GRADE.

SCHEDULE OF MATERIALS AND FINISHES NOTES

- 1. THE SCHEDULE OF MATERIALS AND FINISHES IS NOT INTENDED TO LIST EVERY NECESSARY SUBSIDIARY ITEM FOR EACH BID CODE. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL SUBSIDIARY ITEMS.
- 2. ITEMS ARE CONSIDERED SUBSIDIARY TO THEIR ASSOCIATED BID CODE LISTED IN THE FIRST COLUMN, "BID CODE & DESCRIPTION"



Austin District Design



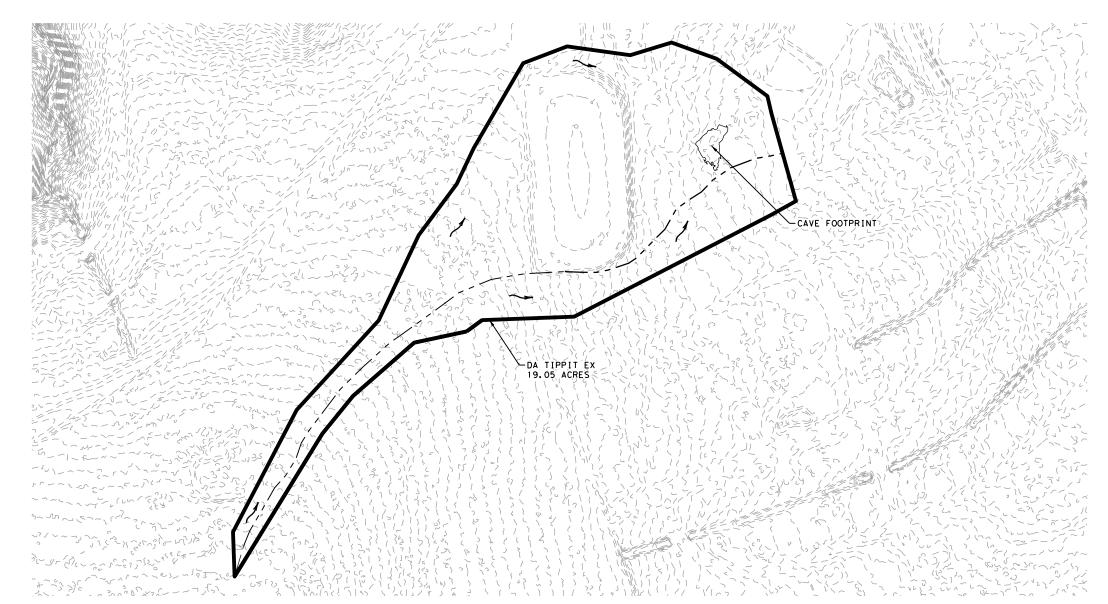
TIPPIT MIDDLE SCHOOL GREEN RIBBON

MISCELLANEOUS DETAILS

			SHEET		Ur	4	
© 2025	CONT	SECT	JOB		HIGHV	VAY	
	0914	05	243	GRI	EENL	EE	DR
	DIST		COUNTY		SHE	ET N	10.
	AUS		WILLIAMSON		2	20	

20

DATE: 7/21/2025 9:07 AM



TR-55 Time of Concentration (Tc) Calculations Initial Date Designer Checker BackChecker P, = 3.870 in. BASIN INFORMATION SHE n. 2-year, 24-hour rainfall SHEET FLOW (<= 100 FEET) SHALLOW CONCENTRATED FLOW Input|Calculated SHEET FLOW SHALLOW CONCENTRATED FLOW OPEN CHANNEL FLOW TOTAL OPEN CHANNEL FLOW SCS UH LAG TIME T_LAG=0.6 TC (MIN) ROUGHNESS COEFFIC IENT O (FT) LENGTH PAVED (P) OR UNPAVED (U) HYDRAUL IC NANNING'S SLOPE (FT/F VALUE T) SLOPE VELOCI TY T3 (FT/SE C) TIME OF CONCENTRATION (10 MIN TC=T1+T2+T3 MINIMUM) DS ELEV. (FT) LENGT H (FT) DRAINAGE BASIN AREA (ac) SLOPE VELOCITY (FT/FT) T2 (HR) (HR)

	RUNO	FF COE	FFICIE	NT		
Drainage Basin	Total DA		Reside ntial	Grass/ Unpave d	Area Sum	C
		C	C	C		Value
		0.95	0.50	0.20		
	(acre)	(acre)	(acre)	(acre)	(acre)	
DA_TIPPIT_EX	19.05	4.25		14.80	19.05	0.36
DA_TIPPIT_PR	19.05	4.49		14.56	19.05	0.38

[DISCHARGE CALCULATION																	
	Drainage Basin	AREA (acre s)	TC	С	Design Event	Watershed	I - 2 yr (in/hr)	Q2 (cfs)	I - 5 yr (i n/hr)	Q5 (cfs)	I - 10 yr (in/hr)	Q10 (cfs)	I - 25 yr (in/hr)	Q25 (cfs)	I - 50 yr (in/hr)	Q50 (cfs)	I - 100 yr (in/hr)	
	DA_TIPPIT_EX	19.05	23.99	0.38	5 YR	Zone 1	3.29	23.59	4.16	29.89	4.94	35.46	6.06	43.50	6.97	50.04	7.94	57.02
[DA_TIPPIT_PR	19.05	23.40	0.38	5 YR	Zone 1	3.33	23.91	4.22	30.29	5.01	35.93	6.14	44.05	7.06	50.66	8.04	57.71

LEGEND

DRAINAGE AREA BOUNDARY

TIME OF CONCENTRATION

1 FT CONTOUR

FLOW DIRECTION

NOTE

 Rational Method used for hydrologic analysis.





6/10/2025





BGE, Inc.

101 W Louis Henna Blvd, Suite 400, Austin, TX 78728

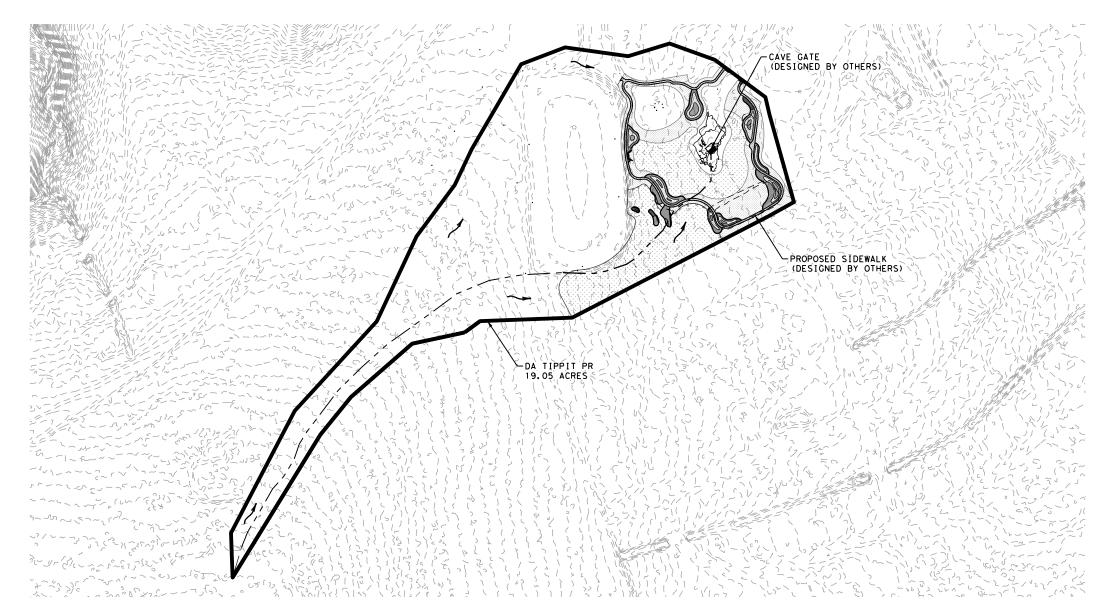
Tel: 512-879-0400 ◆ www.bgeinc.com

TBPE Registration No. F-1046

RM 2243

EXISTING DRAINAGE AREA MAP TIPPIT MIDDLE SCHOOL SHEET 1 0

			SHEET	1 OF 2				
ED.RD. IV.NO.		PROJECT NO	PROJECT NO.					
6								
STATE	DIST.		COUNTY					
EXAS	AUS		WILLIAMSON					
CONT.	SECT.	JOB	HIGHWAY NO.					
914	05	222	RM 2243					



TR-55 Time of Concentration (Tc) Calculations Initial Date Designer Checker BackChecker P, = 3.870 in. 2-year, 24-hour rainfall BASIN INFORMATION SHEET FLOW (<= 100 FEET) SHALLOW CONCENTRATED FLOW Input|Calculated SHEET FLOW SHALLOW CONCENTRATED FLOW OPEN CHANNEL FLOW OPEN CHANNEL FLOW TOTAL SCS UH LAG TIME T_LAG=0.6 TC (MIN) LENGT H COEFFIC DS ELEV. LENGTH (FT) PAVED (P) OR UNPAVED (U) HYDRAUL IC NANNING'S SLOPE (FT/F VALUE T) SLOPE VELOCI TY T3 (FT/SE C) TIME OF CONCENTRATION (10 MIN TC=T1+T2+T3 MINIMUM) DS ELEV. (FT) LENGT H (FT) DRAINAGE BASIN AREA (ac) SLOPE VELOCITY (FT/FT) T2 (HR) (HR)

	RUNO	FF COE	FFICIE	NT		
Drainage Basin	Total Area	Paveme nt	Reside ntial	Grass/ Unpave d	Area Sum	
		С	С	С		Value
		0.95	0.50	0.20		
	(acre)	(acre)	(acre)	(acre)	(acre)	
DA_TIPPIT_EX	19.05	4.25		14.80	19.05	0.36
DA_TIPPIT_PR	19.05	4, 49		14.56	19.05	0.38

DISCHARGE CALCULATION																	
Drainage Basin	AREA (ocre s)	TC	C	Design Event	Watershed	I - 2 yr (in/hr)	Q2 (cfs)	I - 5 yr (i n/hr)	Q5 (cfs)	I - 10 yr (in/hr)		I - 25 yr (in/hr)	Q25 (cfs)	I - 50 yr (in/hr)	Q50 (cfs)	I - 100 yr (in/hr)	
DA_TIPPIT_EX	19.05	23.99	0.38	5 YR	Zone 1	3.29	23.59	4.16	29.89	4.94	35.46	6.06	43.50	6.97	50.04	7.94	57.02
DA_TIPPIT_PR	19.05	23.40	0.38	5 YR	Zone 1	3.33	23.91	4.22	30.29	5.01	35.93	6.14	44.05	7.06	50.66	8.04	57.71

LEGEND

DRAINAGE AREA BOUNDARY

TIME OF CONCENTRATION

1 FT CONTOUR

FLOW DIRECTION

1. Rational Method used for hydrologic analysis.





6/10/2025 **WILCO**

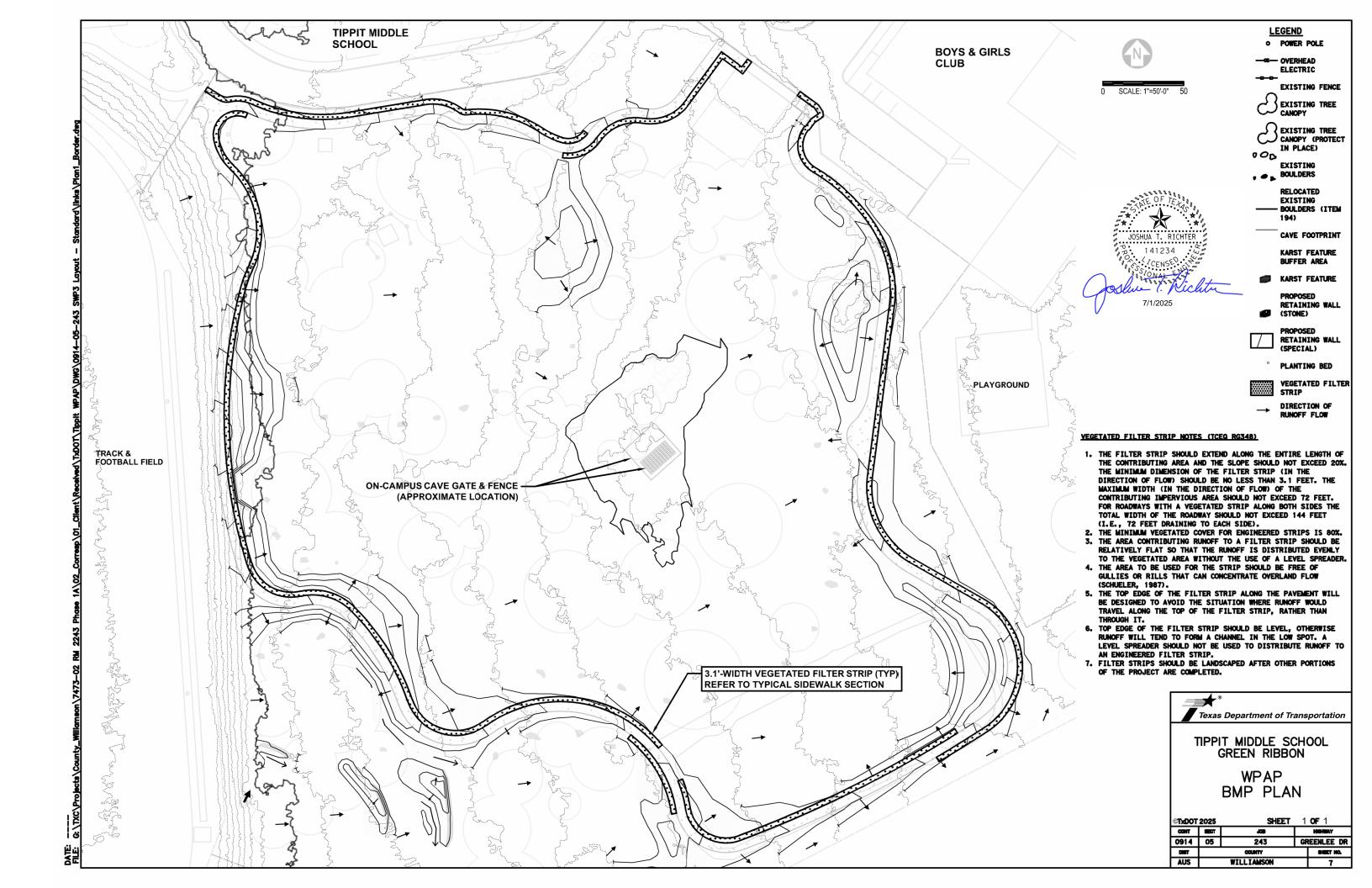


101 W Louis Henna Blvd, Suite 400, Austin, TX 78728 Tel: 512-879-0400 • www.bgeinc.com TBPE Registration No. F-1046

RM 2243

PROPOSED DRAINAGE AREA MAP TIPPIT MIDDLE SCHOOL

			SHEET 2	2 OF 2				
ED.RD. IV.NO.		PROJECT NO.	SHEET NO.					
6								
STATE	DIST.	COUNTY						
EXAS	AUS		WILLIAMSO	N				
CONT.	SECT.	JOB	HIGHWAY NO.					
914	05	222	RM 2243					



Attachment G – Inspection, Maintenance, Repair, and Retrofit Plan

VEGETATED FILTER STRIPS:

Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Once established, all vegetated BMPs require some basic maintenance to ensure the health of the plants including:

<u>Pest Management.</u> An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.

<u>Seasonal Mowing and Lawn Care.</u> If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower (or removal of clippings). If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices, however herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.

<u>Inspection.</u> Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

<u>Debris and Litter Removal.</u> Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e. level spreaders) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than 4 times per year.

<u>Sediment Removal.</u> Sediment removal is not normally required in filter strips, since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.

<u>Grass Reseeding and Mulching.</u> A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Corrective

maintenance, such as weeding or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established.

*All inspection and maintenance records must be kept at the office of the operator for the previous three years.

An amended copy of this document will be provided to the TCEQ within thirty (30) days of any changes in the following information.

Responsible Party: Jimmy Jones, Georgetown Independent School District

Mailing Address: 500 Patriot Way

City, State, Zip: Georgetown, TX 78626

Telephone: (512) 943 - 5129

(Signature of Responsible Party)

Agent/Engineer: Joshua Richter, PE – BGE, Inc.

Mailing Address: 101 W Louis Henna Blvd, Suite 400

City, state, Zip: Austin, Texas 78728

Telephone: (512) 879 - 0484

(Signature of Agent/Engineer)

Attachment H - Pilot-Scale Field Testing Plan

Not applicable to this project.

Attachment I – Measures for Minimizing Surface Stream Contamination

The site will be stabilized using silt fence; all of the stabilization will be installed prior to construction and will be removed after construction has been completed. These methods will minimize any increases in erosion caused by construction. Additionally, the proposed permanent BMPs will treat any stormwater passing through the site prior to that stormwater's returning to existing drainage patterns.

Agent Authorization Form

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

I	Lorena Roque Martinez, P.G.	
	Print Name	
	Environmental Project Planner	
	Title - Owner/President/Other	
of	Texas Department of Transportation- Austin District	
	Corporation/Partnership/Entity Name	
have authorized	Joshua Richter, P.E.	
	Print Name of Agent/Engineer	
of	BGE, Inc.	

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.

Print Name of Firm

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:

<u>Lorena RogueMa</u> Applicant's Signature	ertinez	8/14/2025	<u></u>
Applicant's Signature	0	Date	
THE STATE OF§			
County of §			
BEFORE ME, the undersigned au to me to be the person whose na me that (s)he executed same for	ame is subscribe	ed to the foregoing instrument,	known and acknowledged to sed.
GIVEN under my hand and seal o	of office on this	day of	
orvervariable my hand and obar c	or omes at the <u>_</u>	,	<u>-</u> ·
	NOTARY PU	JBLIC	
	Typed or Pri	nted Name of Notary	
	MY COMMIS	SSION EXPIRES:	
			LPM 8/14/2025
			0/14/2023

Agent Authorization Form

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

l	Jimmy Jones	
	Print Name	
	Director of Construction & Development	
	Title - Owner/President/Other	
of	Georgetown Independent School District	
	Corporation/Partnership/Entity Name	
have authorized	Joshua Richter, PE	
	Print Name of Agent/Engineer	
of	BGE, Inc.	
	Print Name of Firm	

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SIGNATURE PAGE:

Applicant's Signature

07/29/2025 Date

THE STATE OF Teyes §

County of Williamson 8

GIVEN under my hand and seal of office on this Athday of July ,2015

IRENE DAMRON
Notary Public, State of Texas
Comm. Expires 01-30-2028
Notary ID 134736865

June Damra NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 01-30-2008



TCEQ Core Data Form

For detailed instructions on completing 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.*)

	mit, Registration or Authorizatio	iii (Core Duta For	III SHOUIU DE SUDIIII	ttea with t	he prog	ram application.)				
Renewal	(Core Data Form should be subr	nitted with the r	2. Dogulated Entity Deference Number (if insural)							
Customer	Reference Number (if issued)	Follow this link to for CN or RN num		3. Regulated Entity Reference Number (if issued) RN					
N60080345	6		Central Registr							
CTIO	N II: Custome	r Inforn	<u>nation</u>	'						
General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)										
New Custo Change in L	mer agal Name (Verifiable with the	· ·	omer Information of State or Texas Cor			nge in Regulated Ent : Accounts)	tity Own	ership		
he Custome	er Name submitted here ma	y be updated a	utomatically bas	sed on wi	hat is c	urrent and active	with th	ne Texas Secr	etary of State	
SOS) or Texa	as Comptroller of Public Acc	ounts (CPA).								
i. Customer	Legal Name (If an individual, p		If new Customer, enter previous Customer below:							
7. TX SOS/CPA Filing Number 8. TX			TX State Tax ID (11 digits)			9. Federal Tax ID (9 digits)		10. DUNS Number (if applicable)		
11. Type of C	Customer: Corporation Individual Partnership:						ership: 🔲 Gen	eral 🔲 Limited		
	City County Federal		e 🔲 Other		Sole P	roprietorship	Ot			
2. Number	of Employees					13. Independer	ntly Ow	ned and Ope	erated?	
0-20	21-100 🗌 101-250 🔲 25	1-500	and higher		☐ Yes ☐ No					
14. Custome	r Role (Proposed or Actual) – a	s it relates to the	Regulated Entity li	sted on th	is form.	Please check one of	the follo	owing		
Owner	Operator al Licensee Responsible I		wner & Operator VCP/BSA Applicant	:		Other:				
	1									
			<u></u>							
L5. Mailing										
15. Mailing	City		State		ZIP			ZIP + 4		

TCEQ-10400 (11/22) Page 1 of 3

() -							()	-			
SECTION III: I	Regula	ited Ent	ity In	nform	ation						
21. General Regulated En	tity Informa	tion (If 'New Reg	gulated Enti	ty" is select	ed, a new pe	ermit applica	ition is als	o required.)			
New Regulated Entity	Update to	Regulated Entity	Name	Update to	Regulated I	Entity Inform	nation				
The Regulated Entity Namas Inc, LP, or LLC).	ne submitted	d may be upda	ted, in ord	ler to mee	t TCEQ Cor	e Data Sta	ndards (i	removal of o	rganization	al endings such	
22. Regulated Entity Nam	ne (Enter name	e of the site wher	e the regulo	ated action	is taking pla	ce.)					
GEORGETOWN ISD TIPPIT MI	DDLE SCHOOL	. GREEN RIBBON									
23. Street Address of the Regulated Entity:	1601 LEANDER RD										
(No PO Boxes)	City	City GEORGETOWN		State T		x ZIP		78628			
24. County	4. County WILLIAMSON										
		If no Stre	et Address	s is provide	ed, fields 2	5-28 are re	quired.				
25. Description to											
Physical Location:											
26. Nearest City							State		Nea	rest ZIP Code	
Latitude/Longitude are re used to supply coordinate	-	-	-			ata Stando	ards. (Ge	ocoding of th	ne Physical .	Address may be	
27. Latitude (N) In Decimal: 30.613980					28. Lo	28. Longitude (W) In D		cimal:	-97.69914	-97.699149	
Degrees	Minutes		Seconds		Degrees		Minutes			Seconds	
30	36		5	50.33		-97		41		56.94	
29. Primary SIC Code	Code		31. Primar	-	ode	32. Seco	ondary NAIC	S Code			
(4 digits) (4 digits)			(5 or 6 digits)			(5 or 6 digits)					
8211					611110						
33. What is the Primary B	Business of t	his entity? (De	o not repeat	t the SIC or	NAICS descri	iption.)		1			
EDUCATIONAL FACILITY											
24 Mailing	1601 LEAN	L601 LEANDER RD									
34. Mailing											
Address:	City	GEORGETOWN	ı :	State	тх	ZIP	78628		ZIP + 4		
35. E-Mail Address:	BIESHEUVELD@GEORGETOWNISD.ORG										
36. Telephone Number			37. Exte	nsion or C	Code	38. F	ax Num	ber (if applical	ble)		
(512) 943-5040	(512) 943-5040					() -				

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

TCEQ-10400 (11/22) Page 2 of 3

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. ☐ Dam Safety Districts Edwards Aquifer ☐ Emissions Inventory Air ☐ Industrial Hazardous Waste WPAP EXCEPTION ☐ New Source ■ Municipal Solid Waste OSSF Petroleum Storage Tank ☐ PWS Review Air Sludge Storm Water ☐ Title V Air ☐ Tires Used Oil ☐ Voluntary Cleanup ■ Wastewater Other: ■ Wastewater Agriculture ■ Water Rights **SECTION IV: Preparer Information** 40. Name: Joshua Richter, PE 41. Title: Project Manager 42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address (512)879-0484 jrichter@bgeinc.com **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: BGE, Inc. Job Title: Project Manager Name (In Print): Joshua Richter, PE Phone: (512)879-0484 oshu Richte Signature: Date: 7/1/2025

TCEQ-10400 (11/22) Page 3 of 3