EDWARDS AQUIFER PROTECTION PLAN

Aboveground Storage Tank Facility Plan



Switch, Ltd. / TX AUS 4

Prepared By:

TRINITY CONSULTANTS

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July 2025

Project 244404.0330



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1. EXECUTIVE SUMMARY

Switch, Ltd. (Switch®) owns and operates a data center campus at 150 Dell Way, Round Rock, Williamson County, Texas (TX AUS 4). Switch is recognized as the independent world-leader in data center ecosystems, industry-leading telecommunications solutions, and next-generation technology innovation. Switch believes that the future of humanity depends on the intelligent and sustainable growth of the Internet.

TX AUS 4 is located in the Edwards Aquifer Transition Zone. With this letter, Switch is submitting a Texas Commission on Environmental Quality (TCEQ) Aboveground Storage Tank Facility Plan prepared in accordance with Title 30 of the Texas Administrative Code Section (30 TAC §) 213.5(e).

The land owner is TX AUS 4, LLC, an indirect wholly owned subsidiary of Switch, Ltd. For clarification of authorization to submit an Aboveground Storage Tank Facility Plan, an owner authorization form is included herein.

The following sections include all elements as outlined in the Aboveground Storage Tank Facility Plan checklist. The application fee will be submitted with this application via check.

2.	EDWARDS AQUIFER APPLICATION COVER PAGE (TCEQ-20705)

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

- 1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.
 - To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.
- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.
 - An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.
- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: TX AUS 4				2. R	2. Regulated Entity No.: RN111390985			
3. Customer Name: Switch LTD				4. C	4. Customer No.: CN605965805			
5. Project Type: (Please circle/check one)	New		Modif	Modification Extension		nsion	Exception	
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST AS	ST AST EXP EXT		Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)				8. Sit	te (acres):	14		
9. Application Fee:	Application Fee: \$6,500 10. Permanent B		BMP((s):	Double-walled	tanks		
11. SCS (Linear Ft.):	Linear Ft.): N/A 12. AST/UST (N		Vo. Ta	. Tanks): 16				
13. County:	William	son	14. Watershed:				Brushy Creek	

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.)	_		_X_
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 MarcosWimberleyWoodcreck	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorenceGeorgetownJerrellLcanderLiberty HillPflugerville X Round Rock

	S	an 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 Λntonio (SΛWS)Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the app application is hereby submitted to TCEQ for administr	
Deborah Walden-Hersh	
Print Name of Customer/Authorized Agent	
Delorah Walden-Horsh	July 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):		

3.	GENERAL	INFORMATION FORM	(TCEQ-0587)
			1	

General Information Form

Print Name of Customer/Agent: <u>Deborah Walden-Hersh</u>

Texas Commission on Environmental Quality

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

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

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

Signature

Date: <u>July 1, 2025</u>

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:

Sig	ignature of Customer/Agent:	
I	Delorah Walden-Hersh	
Pı	Project Information	
1.	. Regulated Entity Name: <u>TX AUS 4</u>	
2.	. County: <u>WILLIAMSON</u>	
3.	. Stream Basin: <u>Brazos River Basin</u>	
4.	. Groundwater Conservation District (If applicable): <u>NA</u>	
5.	. Edwards Aquifer Zone:	
	Recharge Zone Transition Zone	
6.	. Plan Type:	
	WPAP	

7.	Customer	r (Applicant):	
	Entity: <u>Sw</u> Mailing A City, State Telephon	Person: <u>Aarron Klundt</u> vitch, Ltd. ddress: <u>4100 Smith School Road Building</u> e: <u>Austin, TX</u> e: <u>512-684-9644</u> dress: <u>permits@switch.com</u>	<u>1</u> Zip: <u>78744</u> FAX:
8.	Agent/Re	presentative (If any):	
	Entity: <u>Tri</u> Mailing A City, State Telephon	Person: <u>Deborah Walden-Hersh</u> inity Consultants ddress: <u>9737 Great Hills Trail, Suite 340</u> e: <u>Austin, TX</u> e: <u>512-349-5800 x4426</u> dress: <u>dwalden@trinityconsultants.com</u>	Zip: <u>78759</u> FAX:
9.	Project Lo	ocation:	
	The p	roject site is located inside the city limits or roject site is located outside the city limits iction) of roject site is not located within any city's	s but inside the ETJ (extra-territorial
10.	detail	ocation of the project site is described belowed and clarity so that the TCEQ's Regional starties for a field investigation.	
	<u>150 D</u>	ell Way, Round Rock TX 78664	
11.		hment A – Road Map. A road map showi ct site is attached. The project location an ap.	
12.	USGS	hment B - USGS / Edwards Recharge Zon Quadrangle Map (Scale: 1" = 2000') of the nap(s) clearly show:	-
	US Bo	oject site boundaries. SGS Quadrangle Name(s). oundaries of the Recharge Zone (and Tran rainage path from the project site to the b	
13.	Suffic the bo	CEQ must be able to inspect the project sient survey staking is provided on the propundaries and alignment of the regulated res noted in the Geologic Assessment.	ject to allow TCEQ regional staff to locate
	Surve	y staking will be completed by this date: <u>J</u>	une 13, 2025

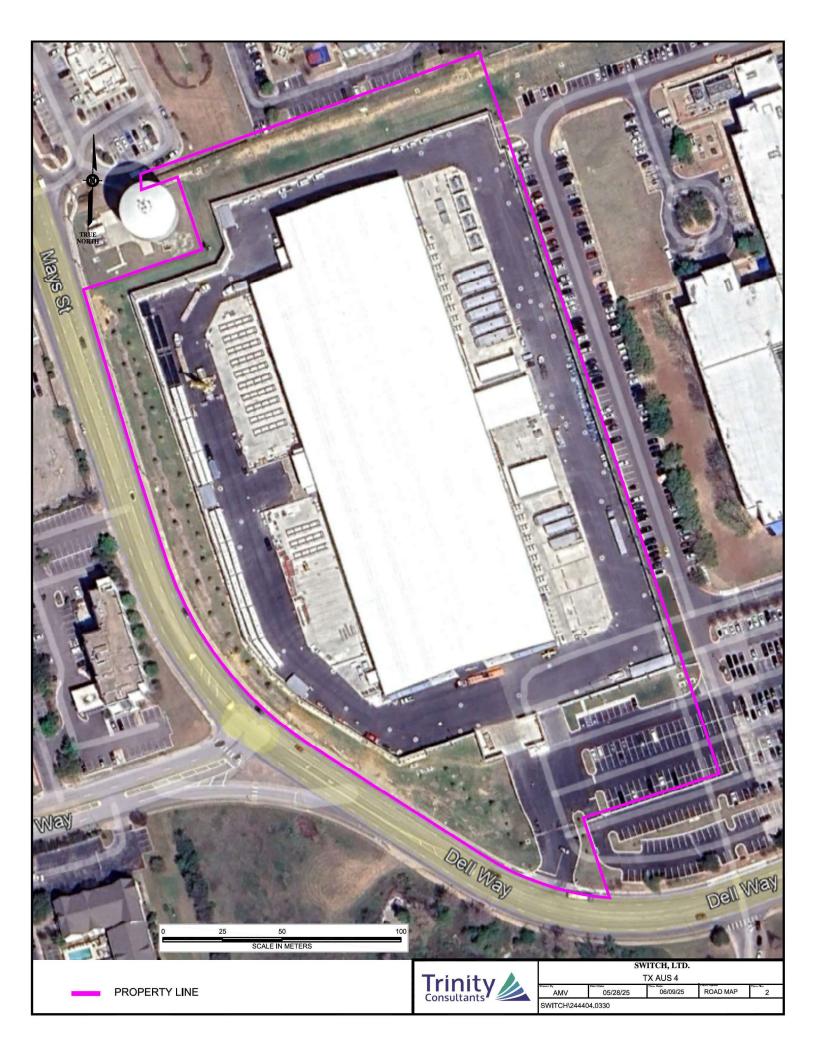
	Attachment C – Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
	Area of the site Offsite areas Impervious cover Permanent BMP(s) Proposed site use Site history Previous development Area(s) to be demolished
15. Exis	ting project site conditions are noted below:
	Existing commercial site Existing industrial site Existing residential site Existing paved and/or unpaved roads Undeveloped (Cleared) Undeveloped (Undisturbed/Uncleared) Other:
Proh	ibited Activities
	am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
,	(1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
	(2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
	(3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
	(4) The use of sewage holding tanks as parts of organized collection systems; and
	(5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
,	(6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.
9	am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:
,	(1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
	(2) Land disposal of Class I wastes as defined in 30 TAC 8335 1: and

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The	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.

3.1 Attachment A – Road Map



3.2 Attachment B – USGS / Edwards Recharge Zone	rge Zone Map
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3.3 Attachment C – Project Description

Switch owns and operates a data center campus at 150 Dell Way, Round Rock, Williamson County, Texas (TX AUS 4). Switch is recognized as the independent world-leader in data center ecosystems, industry-leading telecommunications solutions, and next-generation technology innovation. Switch believes that the future of humanity depends on the intelligent and sustainable growth of the Internet.

Switch will operate and maintain emergency generators and a fire water pump at the 150 Dell Way campus. The generators will be equipped with tanks and operate on diesel fuel. The emergency generators will be operated in emergencies (i.e., during times when the 150 Dell Way location loses normal electrical service), during preventive or corrective maintenance, or for limited hours during other non-emergencies (i.e., when the generator undergoes routine operation, maintenance checks, etc.).

Each emergency generator will have a belly tank to store diesel fuel. The tanks are double-walled and made of steel. In addition, each tank includes a 5-gallon containment at the fill port. There is no external or underground piping as the engine fuel supply and return lines are internal to the engine structure. Permanent BMPs for the tanks are proposed to be their double-walled design.

The fire water pump will have a double walled diesel fuel tank, which will be located within a pump room inside of the main building. The fire water pump and its fuel tank will both be located within the pump room such that all piping will be contained in the building.

Each tank is placed on a concrete foundation constructed as part of the commercial development of the data center campus. The data center campus is located in a developed area of Round Rock and is bordered by a road, the Dell campus, a gas station, and a hotel. Prior to the construction of the data center campus, the land was an undeveloped portion of the Dell campus. Everything within the data center campus walls is impervious (concrete or asphalt) and the walls encompass the vast majority of the property.

4.	ABOVEGROUND STORAGE TANK FACILITY PLAN (TCEQ-0575)

Aboveground Storage Tank Facility Plan Application

Texas Commission on Environmental Quality

For Permanent Storage on The Edwards Aquifer Recharge and Transition Zones And Relating to 30 TAC §213.5(e), 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 **Aboveground Storage Tank Facility Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: <u>Deborah Walden-Hersh</u>

Date: July 1, 2025

Signature of Customer/Agent:

Regulated Entity Name: TX AUS 4

Delorah Walden-Horse

Aboveground Storage Tank (AST) Facility Information

1. Tanks and substance stored:

Table 1 - Tank and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1-15	7,458 (each)	Diesel	Steel
16	187	Diesel	Steel

Total x 1.5 = 168,085.5 Gallons

2. The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

- one tank system, the containment structure is sized to capture one and one-half $(1\ 1/2)$ times the cumulative storage capacity of all systems.
- Attachment A Alternative Methods of Secondary Containment. Alternative methods for providing secondary containment are proposed. Specifications that show equivalent protection for the Edwards Aquifer are attached.
- 3. Inside dimensions and capacity of containment structure(s):

Table 2 - Secondary Containment

AST Number	Length (L) (Ft.)	Width (W) (Ft.)	Height (H) (Ft.)	$L \times W \times H = (Ft3)$	Gallons
AST No. 1-15	41.63	11	2.25	1030.22	7706.58
AST No. 16	6	(diameter) 2.58		31.43	235.13

Total: 115,833.83 Gallons

4.	All piping, hoses, and dispensers will be located inside the containment structure.
	 Some of the piping to dispensers or equipment will extend outside the containment structure. ☐ The piping will be aboveground ☐ The piping will be underground
5.	\boxtimes The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of steel.
6.	Attachment B - Scaled Drawing(s) of Containment Structure. A scaled drawing of the containment structure that shows the following is attached:
	 ✓ Interior dimensions (length, width, depth and wall and floor thickness). ✓ Internal drainage to a point convenient for the collection of any spillage. ✓ Tanks clearly labeled. ✓ Piping clearly labeled. ✓ Dispenser clearly labeled.

Site Plan Requirements

Items 7 - 18 must be included on the Site Plan.

7.	\square The Site Plan must have a minimum scale of 1" = 400'.
	Site Plan Scale: 1" = 40'.
8.	100-year floodplain boundaries:
	Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
	No part of the project site is located within the 100-year floodplain.
	The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s):
9.	The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
	The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
10.	All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
	There are 16 (#) 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 § 76.
	There are no wells or test holes of any kind known to exist on the project site.
11.	Geologic or manmade features which are on the site:
	All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
	No sensitive geologic or manmade features were identified in the Geologic Assessment.
	Attachment C - Exception to the Geologic Assessment. A request and justification for an exception to a portion of the Geologic Assessment is attached.
12.	igwedge The drainage patterns and approximate slopes anticipated after major grading activities.
13.	Areas of soil disturbance and areas which will not be disturbed. No disturbance for tanks but for unregulated activities.
14.	Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

15. \(\sum \) Locations where soil stabilization practices are expected to occur.
16. Surface waters (including wetlands).
17. \(\sum \) Locations where stormwater discharges to surface water or sensitive features. \(\subset \) There will be no discharges to surface water or sensitive features.
18. 🔀 Legal boundaries of the site are shown.
Best Management Practices
19. Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.
 In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly. In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.
20. All stormwater accumulating inside the containment structure will be disposed of through an authorized waste disposal contractor.
 Containment area will be covered by a roof. <i>Double wall tanks with no stormwater exposure.</i> Containment area will not be covered by a roof.
A description of the alternate method of stormwater disposal is submitted for the executive director's review and approval and is attached.
21. Attachment D - Spill and Overfill Control. A site-specific description of the methods to be used at the facility for spill and overfill control is attached.
22. Attachment E - Response Actions to Spills. A site-specific description of the planned response actions to spills that will take place at the facility is attached.
Administrative Information
23. A Water Pollution Abatement Plan (WPAP) is required for construction of any associated commercial, industrial or residential project located on the Recharge Zone.
 The WPAP application for this project was approved by letter dated A copy of the approval letter is attached at the end of this application. The WPAP application for this project was submitted to the TCEQ on, but has not been approved.

	A WPAP application is required for an associated project, but it has not been submitted.
	There will be no building or structure associated with this project. In the event a building or structure is needed in the future, the required WPAP will be submitted to the TCEQ.
	The proposed AST is located on the Transition Zone and a WPAP is not required. Information requested in 30 TAC 213.5 subsection (b) (4)(B) and (C) and (5) is provided with this application. (Forms TCEQ-0600 Permanent Stormwater Section and TCEQ-0602 Temporary Stormwater Section or Stormwater Pollution Prevention Plan/SW3P).
24. 🔀	This facility is subject to the requirements for the reporting and cleanup of surface spills and overfills pursuant to 30 TAC 334 Subchapter D relating to Release Reporting and Corrective Action.
25. 🛚	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.
26. 🖂	Any modification of this AST Facility Plan application will require executive director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

4.1 Attachment A – Alternative Methods of Secondary Containment

Each emergency generator will have a belly tank to store diesel fuel. The tanks are double-walled, made of steel, and constructed in accordance with UL-2085 guidelines. In addition, each tank includes a 5-gallon containment at the fill port. There is no external or underground piping as the engine fuel supply and return lines are internal to the engine structure. Permanent BMPs for the tanks are proposed to be their double-walled design.

The fire water pump will have a double walled diesel fuel tank, which will be located within a pump room. The tank is made of steel and constructed in accordance with UL-142 guidelines. Tank fittings are in accordance with NFPA 30 and UL-142 guidelines. In addition, the tank includes a 5-gallon containment at the fill port. There is a level gauge and an audible level alarm for overfill control. The fire water pump and its fuel tank will both be located within the pump room such that all piping will be contained in the building. The tank is placed on an impervious concrete foundation constructed as part of the commercial development of the data center campus.

Please see Section 4.2 for detailed drawings of the double-walled tanks.

4.2	Attachment B – Scaled Drawings of Containment Structure

Figure 4-1. Emergency Engine Tank Arrangement

96904		
ALLOSATE	*	4
Season the length of the teas to notice enclosure Johnstin. Durge aboungs plane to health slewer'd design.	9/2/6	2
Added Seri deyth, gallow per lech trife, and saddland was information to prest 3.	1,72,40	193

Tank Data & Notes

Generator Fuel Consumption @100%: 171 Ga./Hr Run Time @Full Load: 40 Hours Gallons Per INCH of Depth: 281.4 Ga. Primary Tank Jimensions: Exterior: 499.5″L x 132″W x 27″H Interior: 499.1″L x 131.5″W x 26.5″H Tank Max Fuel Fill Height: 25.2″H Tank Volume [5allons] @ Max Tank Height: 7,458 Ga. @ Fuel Fill Height: 7,095 Ga. Usable @ Fuel Fill Height: 6,813 Ga

Emergency Relef Venting Tank 422,600 (199.4) Cubic Ft/Hr (M3/Min) Secondary: 450,980 (217.6) Cubic Ft/Hr (M3/Min)

Maximum Lcad Capacity: 324,000 (146,964) LBS (Kg)

Maximum Lift Lug Capacity: 20,000 (9,072) LBS (Kg)



-2" NPT Spure Port (5)

4º Spare Por

Electrical Stub-Up

Engine Fuel Supply w/ Energency Fire Volve

Engine Fuel Return

0

Tank Drily (4)

8' Secondary E-Vent

535.0 (13583.4mm) SHIPMENT # 3 LENGTH

¥ ...

SHEMBY # 3

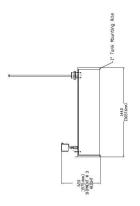
Rupture Basin Switch

Drain Port

907 Level Switch

2' NPT Fil Port and 5 Gallon Spill Containment Box " w/ Fill Abrn Panel

Mechanical Fuel Level Gauge



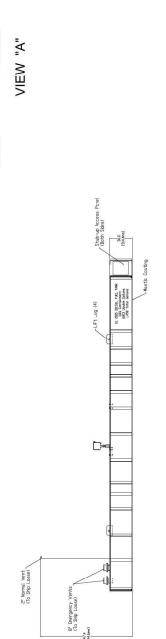




Figure 4-2. Emergency Engine Tank Cross Section

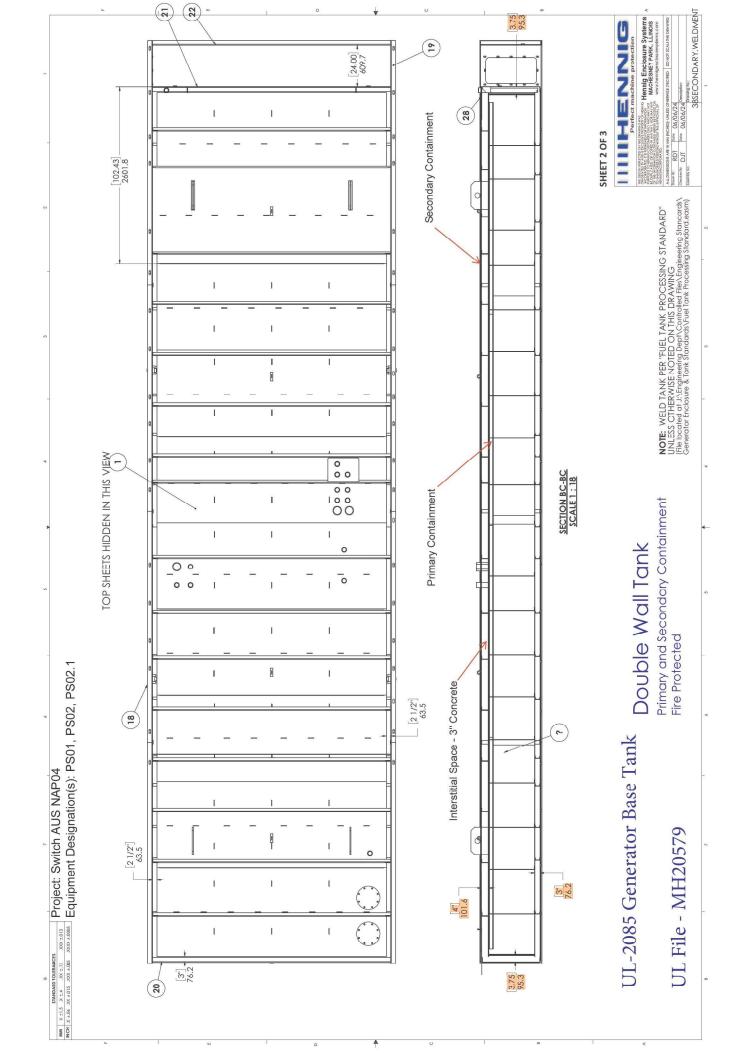
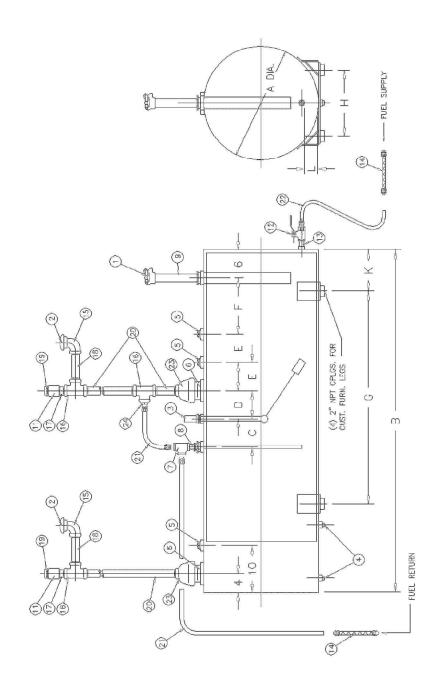


Figure 4-3. FWP Tank Drawings



General Arrangement



Z	3" NPT
_	3.50
¥	8.50
Ŧ	16.00
ဗ	44.00
ш	13.00
ш	00.9
۵	00.9
ပ	00.9
ω	72.00
∢	31.00

DIESEL FUEL TANK NOTES:

- 1. Tanks are constructed and labeled in accordance with UL-142.
- 2. Fittings shown areconsistent with N.F.P.A. 30 and UL-142.
- Tank to be pitched toward drain 1/4" per foot with outlet on the same elevation as engine fuel pump. Means of elevating Tank (by others) may be required.
- 4. Usable tank volume is total capacity less 5% for expansion.

ILLUSTRATION NOTES:

- 1. All dimensions are in inches and may vary ±.25" (6.35 mm).
- 2. Components shown are shipped loose for field assembly.
- 3. Illustration is for component identification only. Actuel installation must meet local codes and all applicable standards.
- 4. Refer to section 916 page 259 for details of Pentair

furnished components.

		Fuel Tank Information	ormation
Nominal Tank	ank Size		al
Usable Volume	olume	165.0 US.gal	al
Tank Type	0	Double Wall	
Fuel Tank Sizing	Sizing	NFPA 20 & UL	UL 142
Fuel Tank Includes	Include	leak detector	and 3" emergency vent
Weight		265.0 lb	
	S	Components Furnished By	hed By Pentair
Item No.	Qty		Description
-	_	2" NPT Loc	2" NPT Lockable Fuel Cap
2	2	2" NPT Scr	Screened Tank Vent"
က	_	Fuel Gauge	Fuel Gauge 1 1/2" NPT
4	2	1" NPT Drain Plug	in Plug
5	က	2" NPT Pipe Plug	e Plug
9	_	4" NPT Close Nipple	se Nipple
7	_	1/2" NPT Tee	ee ee
8	_	1/2" NPT Close Nipple	lose Nipple
6	_	2" Fuel Fill Black Pipe	Black Pipe
10	-	"Z"x"Z"x2" NPT Tee	NPT Tee
11	2	i'Z" NPT Pi	"Z" NPT Pipe Coupling
12	_	3/4" NPT Lo	3/4" NPT Lockable Fuel Value
13	-	3/4" NPT Close Nipple	lose Nipple
14	2	Fuel Hoses (Furnished E	Fuel Hoses For Supply & Return (Furnished By Engine Mfr.)
15	2	2" NPT Stre	Street Elbow
16	2	"Z"x"Z"x"2" NPT Tee	NPT Tee
17	2	"Z" NPT CIC	"Z" NPT Closed Nipple
18	2	2" NPT X 6'	2" NPT X 6" Long Nipple
19	2	"Z" NPT En	"Z" NPT Emergency Vent
23	1	4"x"Z" NPT Reducer	Reducer
24	1	2"x1/2" NPT Reducer	T Reducer
	Co	Components Furnished By Others	thed By Others
Item No.	Qty		Description
20	3	"Z" Size Pip	"Z" Size Piping For Vent
21	1	1/2" Tubing	1/2" Tubing And Fittings or 1/2" Black Pipe
22	_	3/4" Tubing	3/4" Tubing And Fittings or 3/4" Black Pipe
		Quote Information	mation
Customer		ASC PUMPING	ASC PUMPING EQUIPMENT, INC
Customer	Quote	0	
Job Name		Default	
Market			
₽ P	FNH	NTAIR Quote Item	17 5
		Quoie Dale	



Model 516 5-Gallon Spill Container

SPECIFICATION SHEET

The Fig. 516 contains any spills that occur at the fill point on Aboveground Storage Tanks. It is designed to be mounted on top of the AST. The 5 gallon Fig. 516 has a lockable hinged cover. It is of steel construction and powdercoated white inside and out. It has an optional push type drain with a fluoroelastomer o-ring.

EVR approved models available.



	ID Number	В	С	D	E	F	G	Н		J
× 7	5160200 ACPW	F	2	No	Centered	12.03	17.2	13.2	17	Yes
	5160400 ACPW	F	4	No	Centered	13.41	17.2	13.2	21	Yes
	516D0200 ACPW	F	2	Yes	Centered	13.16	17.2	13.2	17	Yes
	516D0400 ACPW	F	4	Yes	Centered	13.41	17.2	13.2	21	Yes
	516O0200 ACPW	F	2	No	Offset	12.03	17.2	13.2	17	Yes
	516O0400 ACPW	F	4	No	Offset	13.41	17.2	13.2	21	Yes
	516O0400ACEVR	F	4	No	Offset	13.41	17.2	13.2	21	Yes
	516OD-0200 ACPW	F	2	Yes	Offset	13.16	17.2	13.2	17	Yes
	516OD-0400 ACPW	F	4	Yes	Offset	13.41	17.2	13.2	21	Yes
	516M0200 ACPW	М	2	No	Centered	12.28	17.2	13.2	16.5	Yes
	516M0400 ACPW	М	4	No	Centered	13.78	17.2	13.2	19	Yes
	516MD-0200 ACPW	М	2	Yes	Centered	13.28	17.2	13.2	17.5	Yes
	516MD-0400 ACPW	М	4	Yes	Centered	13.78	17.2	13.2	20.5	Yes
	516MO-0200 ACPW	М	2	No	Offset	12.28	17.2	13.2	17	Yes
	516MO-0400 ACPW	M	4	No	Offset	13.78	17.2	13.2	19	Yes
	516MO-0400ACEVR	М	4	No	Offset	13.78	17.2	13.2	19	Yes
	516MOD0200 ACPW	М	2	Yes	Offset	13.28	17.2	13.2	17.5	Yes
	516MOD0400 ACPW	М	4	Yes	Offset	13.78	17.2	13.2	20.5	Yes

SPECIFICATION OPTIONS:

B—Mounting Connection: Male (M)

Female (F)

C—Size: NPT Threads

D-Drain: Yes/No

E-Mount

F—Height (Inches)

G—Width (Inches)

H—Body Diameter

I—Shipping Weight (lbs.)

J—ULC Listing

Body: Powdercoated White Lid: Powdercoated White

Other Hardware: Zinc Plated Steel

Optional With Drain: Drain Push Rod: Brass Drain Nut: Brass

Spring: Bronze

O-Ring: Fluoroelastomer

Black Powdercoat Optional

570 E. 7th Street, P.O. Box 238 | Dubuque, IA 52004-0238 t. 563.583.5701 | 800.553.4840 | f. 563.583.5028 www.morbros.com



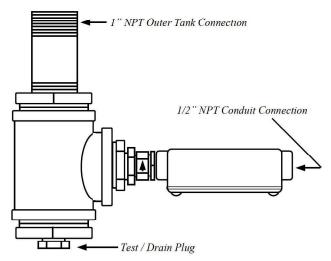
FLS-SS

for double wall diesel fire pump fuel tanks

Utilizing a corrosion resistant float sensor, the FLS-SS detects fuel leakage in the annular space, between the inner and outer wall, of an above ground double wall diesel fire pump engine fuel tank.

The sensor is designed for double wall tanks with a bottom located outer tank drain port. The sensor simply screws into the drain port replacing the existing plug. Any leakage flows to the outer tank drain and into the sensor. The sensor is field wired to a Fuel Leak alarm lamp provided by fire pump controller manufacturer or to a separate low voltage alarm system.

The **FLS-SS** includes a test plug and full size tank drain plug located on



FLS-SS Fuel Leakage Sensor Assembly

the bottom of the assembly. A wiring junction box with conduit connection is provided.

All units are factory tested prior to shipment. The sensor can be field tested after installation by removing the test plug and manu-

ally actuating the sensor switch.

All electrical components in the **FLS-SS** are U.L. Recognized or Listed. The assembly is simple to install, economical and requires no maintenance.

FEATURES

- Detects leakage in the annular space of a double wall diesel fire pump engine fuel tank
- Capable of sensing as little as 3oz (90ml) of leakage
- Designed for use on double wall fuel tanks with a bottom located outer tank drain connection
- Connects to an alarm in the Fire Pump Controller or other low voltage alarm system
- Stainless Steel Body
- Non-metallic float switch for use with Diesel Fuel
- Field testable while installed

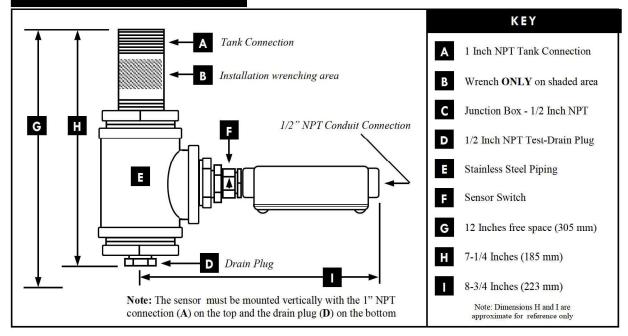
TECHNICAL SPECIFICATIONS

•	Piping Assembly	Type 304 Stainless Steel
•	Temperature Rating	Ambient Temperature 32°F (0°C) to 150°F (65°C)
•	Pressure Rating	Pressure to 50 PSIG (345 kpa) @ 70°F (21°C)
•	Switch Material	Non-Metallic for use with Diesel Fuel
•	Switched Output	Normally Open (NO) contact closes on leakage detection
•	Switch Resistive Load	24 VDC 0.28 Amps Max.
•	Sensitivity	Switch closes when 3oz. (90ml) or more fluid enters the assembly
•	Tank Connection	1" Male NPT (may be bushed to match outer tank drain size)
•	Test / Drain Plug	1/2" NPT
•	Conduit Connection	1/2" Female NPT
•	Wiring Connections	# 22 AWG Lead Wires
•	Electrical Components	U.L. Recognized or Listed
	Shinning Woight	5 Lbc

Assembled in USA by

COMPONENTS AND DIMENSIONS

PD 0321863999



INSTALLATION INSTRUCTIONS

installation is not covered by warranty.

- THE SENSOR MUST BE MOUNTED VERTICALLY
- DO NOT USE THE JUNCTION BOX FOR LEVERAGE DURING INSTALLATION
- DURING INSTALLATION WRENCH ONLY ON AREA (B) OF THE PIPE NIPPLE
- DO NOT APPLY WEIGHT TO THE JUNCTION BOX. SUPPORT ALL CONDUIT.
- THE SENSOR IS FOR USE ONLY ON DOUBLE WALL DIESEL FUEL TANKS WITH A BOTTOM LOCATED ANNULAR SPACE DRAIN CONNECTION
- 1. Remove the plastic thread protector from the tank connection pipe end (A).
- 2. Locate the fuel tank OUTER WALL, annular space, drain plug. Remove plug.
- 3. Apply Pipe Thread Sealant, Rectorseal No. 5® (or equal suitable for use with diesel fuel (see note below)), to the pipe threads on connection (A). Thread the 1" NPT connection (A) on the sensor assembly into the annular space drain connection. Tighten the assembly with a pipe wrench.

 *CAUTION! Wrench only on area (B) located on the pipe nipple. Do not use the junction box for leverage. The junction box (C) is attached to the sensor switch (F) and any leverage or weight applied to the box may damage or break the sensor switch. Sensor switch damage caused by improper application or
- 4. Connect the conduit and wiring.

 CAUTION! The junction box (C) is connected to the sensor switch (F) which is fragile and rotationally sensitive. Support the junction box to prevent rotation and weight on the sensor switch during assembly. After assembly verify that the arrow, located on the sensor switch, is vertical as shown in the drawing above.
- 5. After installation is complete, the sensor may be tested. Remove the 1/2" NPT drain plug (**D**) on the bottom of the assembly. Insure the leak detection electrical circuit is activated. GENTLY insert the eraser end of a pencil vertically into the drain port. GENTLY raise and lower the float switch with the pencil to activate and de-activate the fuel leak alarm. Reinstall the drain plug using pipe thread sealant.

Note: Rectorseal No. 5[®] is available in the USA from Grainger (www.grainger.com) Part # 4YRW3 (1.75 Oz.)

Assembled in USA by

Audible Alarm Controls

LC 1000

The LC 1000 series alarm consoles are designed for use with any tank mounted sensing device that trans-mits an alarm condition by opening or closing switch contacts. While the controls are usable with a variety of field sensors, the LC's are optimized for level control. They assure com-plete safety and minimum installation cost by requiring only low current, intrinsically safe wiring between con-sole and tank switch.

Housed in a water tight enclosure, the solid state circuitry provides from one (1) to four (4) alarm channels for monitoring up to four independent sensing points. Bright incandescent alarm lights and a loud sounding horn warn of alarm conditions. Dry con-tacts are provided for controlling your external devices such as pumps, valves, or remote alarm stations.

Features

Consoles can monitor multiple tanks

High and low level warning lights Audible alarm with reset button

Multiple switches

Push button test

Intrinsically safe operation of tank mounted sensors

Operation

Each alarm channel transmits a 12 VDC signal to a tank mounted level switch. When the switch senses a level alarm condition, the switch transfers and the LC 1000 circuit energizes the audible horn and in-dicator light. The light will remain on after silencing the horn by pressing the *reset* button. At any time, an operator may test the alarm circuit by pressing the *test* button.

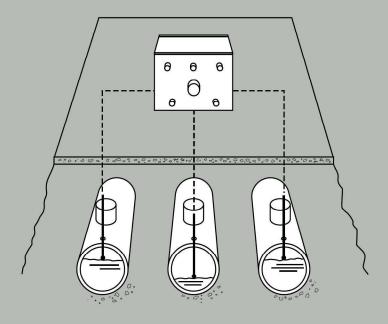


File No. 1Q3A4.AX





Meets Overfill Alarm Requirements



Typical Application

Audible Alarm Controls

LC 1000

Specifications

Power Input

120 VAC ± 10%, 60 Hz Fuse — .10 AMP, AG-SLO BLO

Power to Field Sensor

Low electrical energy; 12 VDC at 15mA provided by control unit to each sensor switch. Safe for Class I, Division 1, Groups A, B, C, D; Class II Division 1, Groups E, G.

Control Relay Output

Dry switch contact — SPDT per point, rated 3 AMPS at 120 VAC; selectable either normally open or normally closed.

Response Time

Typically 1/2 second. Automatic horn silence option, adjustable 30 seconds to 3 minutes.

Indicators/Controls

Red light indicates alarm condition Horn signals audible alarm — 85dB min. Reset button silences alarm Test button tests alarm circuits

Temperature

-40 °F to 160 °F (-40 °C to 71 °C)

Enclosure

NEMA 4-weatherproof standard

Installation

Wall mount standard

Weight

6 lb (2.7 kg) approx. — small case 11 lb (5 kg) approx. — large case

Sensor Cable

Standard 2 conductor #18AWG Up to 5000 feet (1524 m) (by customer)

Model	Description	Old Part Number	
LC1001	Single Point	LC1SA	
LC1002	Two Points	LC2SA	
LC1003	Three Points	LC3SA	
LC1004	Four Points	LC4SA	

Specifications subject to change without notice.



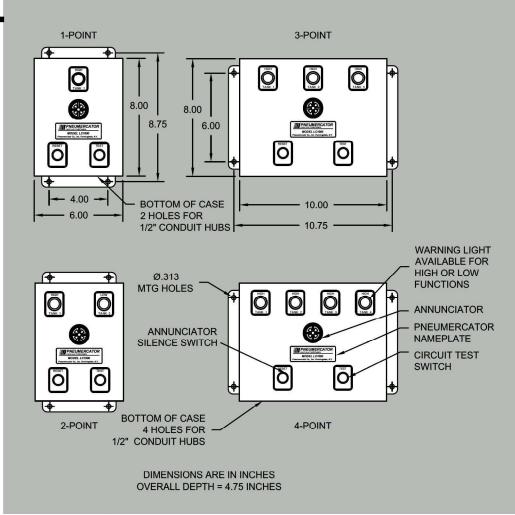
File No. 1Q3A4.AX

PNEUMERCATOR Liquid Level Control Systems

PNEUMERCATOR COMPANY, INC.

1785 Expressway Drive North, Hauppauge, NY 11788 (631) 293-8450 • FAX (631) 293-8533 http://www.pneumercator.com

Dimensions



Sample Specifications

Alarm console should consist of solid state electronic circuitry operated from 120 VAC power, housed in a weatherproof enclosure, model ______ (see model number table) manufactured by the Pneumercator Co., Hauppauge, NY 11788.

Distributed by:

Level Switches

LS 600

The LS 600 series liquid level float switches provide the highest degree of dependable accuracy for sensing and controlling liquid levels. They may be used with audible alarm consoles such as the Pneumercator LC 1000 or customers' own to actuate high and/or low level warning devices. The LS 600 is available with intermediate switches for control of pumps to maintain liquid levels within a predetermined range.

The LS 600 series is simple in design and operation. A magnet within each float actuates a hermetically sealed dry-reed switch. The encapsulated switches are sealed inside the sensing probe and completely protected from exposure to liquid or vapor. Float travel is restricted via the use of stops placed immediately above and below the customer specified switch operating points.

FEATURES

- One to four magnetic switch floats.
- Available in brass or stainless steel configuration.
- Each switch may be operated in either normally open (NO) or normally closed (NC) contact states.
- FM and UL approved intrinsically safe. UL approved general purpose.
- Easy installation.
- Virtually maintenance free.
- Repeatability of 1/8-inch.







NYC-BSA APPROVED





LS 600 Level Switches

SPECIFICATIONS

Normally Wetted Materials

Shaft

Brass .50" dia. (max. length 12 feet.) Stainless steel .50" dia. (max. length 14 feet.)

Float

1.62" dia. stainless steel or 1.4" dia. Buna-N

Retainer Clips

Stainless steel.

Bushing

2" or 1 1/2" NPT Cast iron standard

Wiring

2 conductor--18 AWG each switch. 10 feet long for models LS 600A.

Float Switch

Dry reed type hermetically sealed within probe. SPST rated 100W resistive load, 400V max. at 3 amp.

Temperature

-4 °F to 176 °F (-20 °C to 80 °C). -40 °F to 176 °F (-40 °C to 80 °C) option available

Pressure

Full vacuum to 150 PSIG.

Repeatability

1/8" inch typical per point.

Housing

(Model LS 600) Die cast aluminum, NEMA 4 rated, 1/2 NPT conduit fitting.

Approvals:

UL

UL913 Entity

Approved intrinsically safe for Class I, Groups C & D hazardous locations when installed in accordance with wiring diagram 50187. Ref. E139464.

UL508 General Purpose Use Rated 0.5A @ 120VAC, inductive. Rated 0.25A@240VAC, inductive.

FM

Approved intrinsically safe with entity for Class I, II, III, Division 1, Groups A,B,C, D,E,F, & G under file No. 1 Q3A4.AX*.

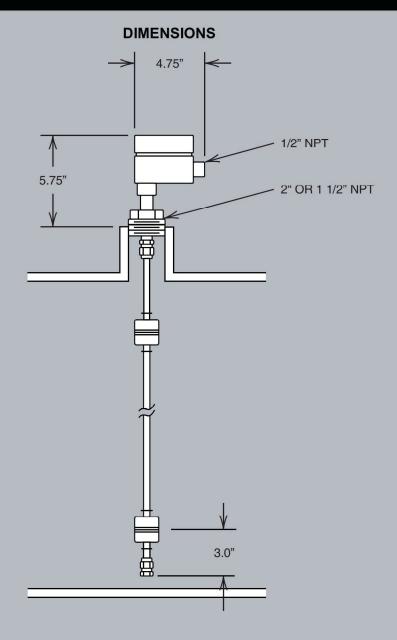
NYC BSA

Approved under calendar number 630 71 SM.* *When used in combination with a Pneumercator LC1000 series alarm console.

specifications subject to change without notice



PNEUMERCATOR COMPANY, INC. 1785 Expressway Drive North, Hauppauge, NY 11788 (631) 293-8450 • FAX (631) 293-8533 http://www.pneumercator.com



MANUAL TEST OPTION

A special adaptation of the LS 600 level switch with 2" NPT bushing provides for 100% system performance test. The upper float is equipped with a mechanical lifting lever for manually raising the float through its switching position while still installed in the tank. Consult the factory for details.

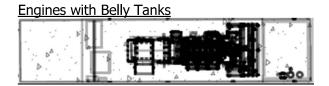
Distributed by.		

4.3 Site Plans

Site plans follow. The site area is not in a 100-year floodplain according to the latest map available from the Federal Emergency Management Agency (FEMA). Contours shown are finished contours. The site has been graded such that all stormwater falling in the vicinity of the tanks will drain to the storm drains/trenches. Stormwater is routed to an off-site storm detention pond that is located to the south of the property boundary. There is no soil disturbance made for tank installation as tanks were placed on concrete pads or within a building associated with commercial development that is not subject to 30 TAC 213.5(b). An erosion and sediment control map is also included in Section 5.4 describing final stabilization and showing temporary stormwater best management practices used as part of the commercial development of the property. The boring well map included in this section includes all known wells at the project site that are no longer in use and have been properly abandoned.

See the following symbols applicable to the plans.





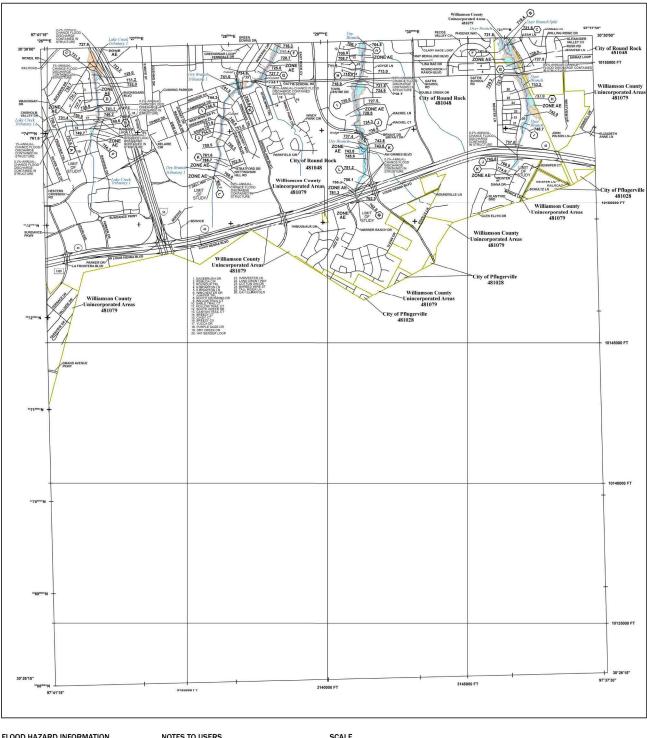
Underground storm drain



Fire water pump room



Figure 4-4. 100 Year Floodplain Map



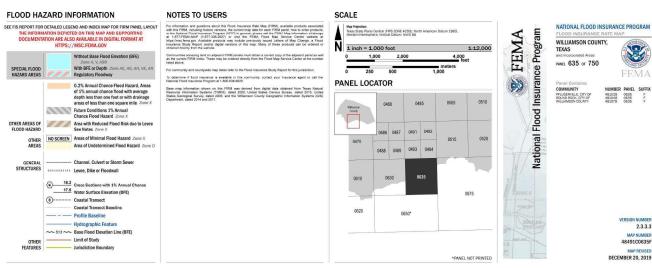
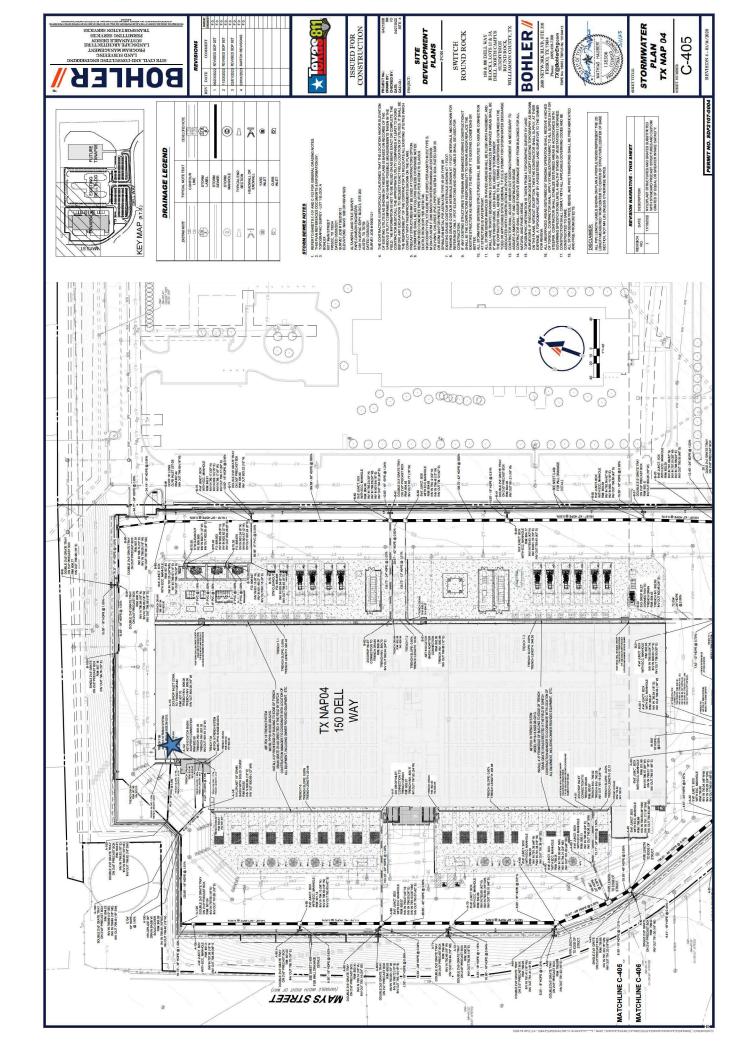


Figure 4-5. Stormwater Map



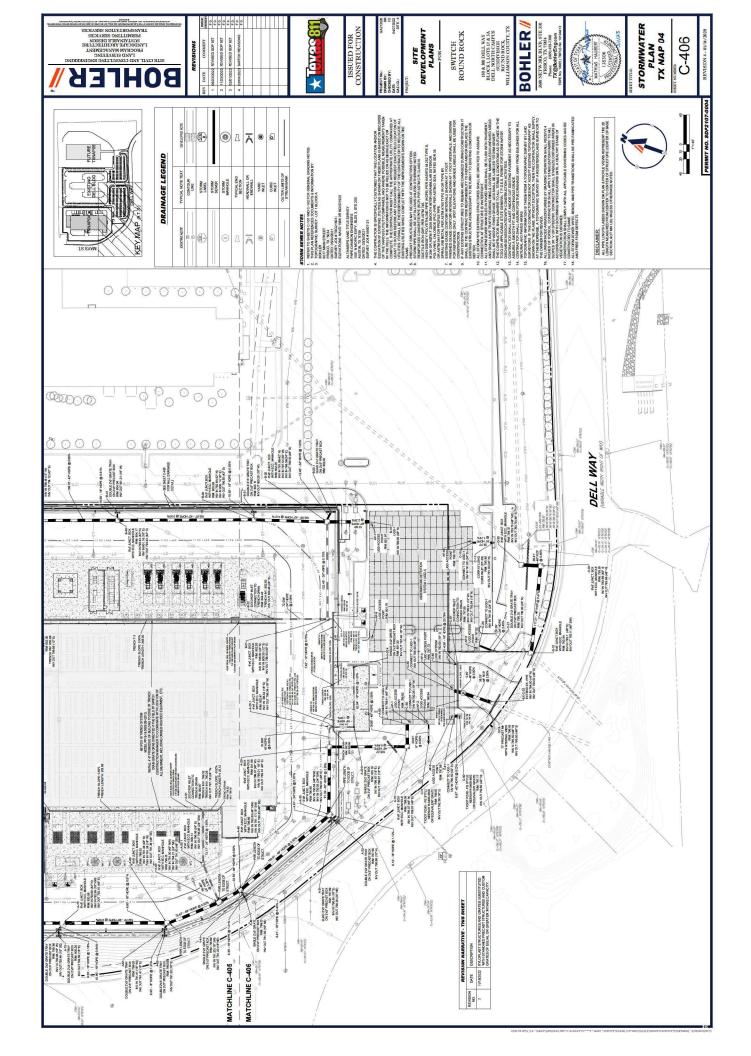
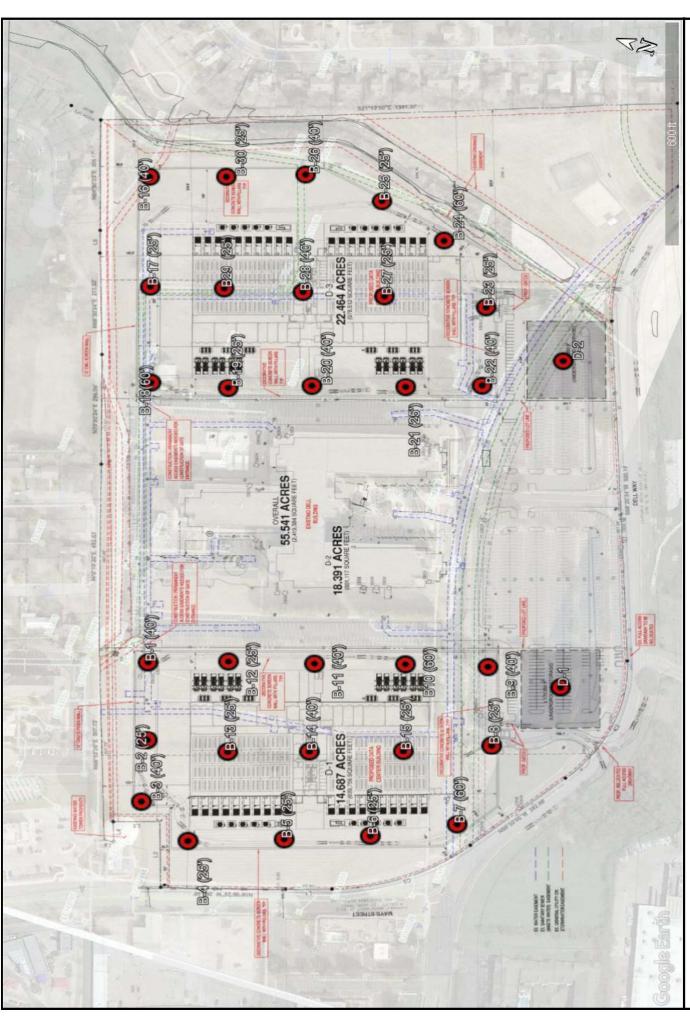


Figure 4-6. Boring Well Map





S



2600 McHale Ct. #125 Austin, Texas 78758 (512) 491-0200

4.4 Attachment D – Spill and Overfill Control

Each emergency generator will have a belly tank to store diesel fuel. The tanks are double-walled and made of steel. In addition, each tank includes a 5-gallon containment at the fill port. There is a mechanical fuel level gauge and 90% level switch for overfill control. There is no external or underground piping as the engine fuel supply and return lines are internal to the engine structure.

The fire water pump will have a double walled diesel fuel tank, which will be located within a pump room. The tank is made of steel and constructed in accordance with UL-142 guidelines. Tank fittings are in accordance with NFPA 30 and UL-142 guidelines. In addition, the tank includes a 5-gallon containment at the fill port. There is a level gauge and an audible level alarm for overfill control. The fire water pump and its fuel tank will both be located within the pump room such that all piping will be contained in the building.

4.5 Attachment E – Response Action to Spills

The Site has an existing procedure for response to spills and other emergency situations (included below). Onsite spill control equipment includes drain covers, absorbent pads and socks, granular absorbents, empty drums, shovels, and brooms. Also, spill kits are strategically placed inside each emergency generator block. The spill kits are inspected monthly to ensure that the kits contain required spill prevention materials. The Site has procedures in place for equipment operators to respond to spills. Only trained personnel with proper clothing and equipment are authorized to respond and clean up spills. Site personnel are responsible for maintaining records of oil spills of five (5) gallons or more. The record reflects the location of the spill, date of spill/leak, description of the spill event, estimated quantity of spill or leak, and corrective action taken to clean the spill.

4.5.1 Federal

A discharge must be reported to the EPA Regional Administrator (RA) when there is a discharge of:

- ▶ More than 1,000 U.S. gallons of oil in a single discharge to navigable waters or adjoining shorelines, or
- ▶ More than 42 U.S. gallons of oil in each of two discharges to navigable waters or adjoining shorelines occurring within any twelve-month period.

When determining the applicability of this SPCC reporting requirement, the gallon amount(s) specified (either 1,000 or 42) refers to the amount of oil that actually reaches navigable waters or adjoining shorelines, not the total amount of oil spilled.

It is a federal reporting requirement that releases of oil in violation of the federal Clean Water Act and applicable state water quality regulations be immediately reported to the National Response Center (NRC) upon learning of the discharge. NRC may be contacted at the following 24-hour emergency number: 800-424-8802. The NRC can help determine whether the U.S. Environmental Protection Agency (EPA) needs to be contacted.

4.5.2 State

Any actual or threatened discharge or a harmful quantity of oil to navigable waters must also be reported to the State of Texas by dialing 800-832-8224. A harmful quantity is defined in 31 TAC 19.2(9) and

40 CFR 110.3 as any quantity of oil sufficient to cause a visible film or sheen upon or discoloration of the surface of the water or adjoining shorelines, or to cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines. This would apply to the adjacent offsite drainage ditches or anything downstream.

Notification will be provided to the Texas Commission on Environmental Quality (TCEQ) within 24 hours in the event of any spill of oil exceeding 42 gallons, or of any spill which comes into contact with any body of water or flowing stream without regard to the size of the spill. In the event of any discharges as described in 40 CFR §112.1(b) exceeding 1,000 gallons in size, or in the event of two such discharges of 42 gallons each within any 12-month period, Switch will submit to the TCEQ and to the EPA Regional Administrator within 60 days the required information listed below.

- ▶ Contact the TCEQ 24-hour Emergency Spill Response Center (512-463-7727) or the TCEQ Austion Regional Office Region 11 (512-339-2929) during business hours any time a Texas Reportable Quantity (RQ) is released. According to 30 TAC 327.4, a Texas RQ is: The Facility discharges 210 gallons (5 barrels) or more onto land or discharges directly into water in the state in a quantity sufficient to create a sheen of crude oil or any other product not defined as a petroleum product or used oil in a 24-hour period; or
- ➤ The Facility discharges 25 gallons or more onto land (petroleum storage tank exempted facilities are allowed 210 gallons or more onto land) or discharges directly into water in the state in a quantity sufficient to create a sheen of a petroleum product or used oil in a 24-hour period; or
- ➤ The Facility discharges the quantity designated as the RQ listed in 40 CFR 302.4 onto land of a hazardous substance listed in 40 CFR 302.4; or
- ▶ The Facility discharges the quantity designated as the RQ listed in 40 CFR 302.4, except where the RQ is greater than 100 pounds in which case the RQ will be 100 pounds, into waters in the state of a hazardous substance listed in 40 CFR 302.4; or
- ▶ The Facility discharges 100 pounds or more of an industrial solid waste or other substance into water in the state.

Any unauthorized discharge into air, land or water must be reported immediately to the State Police and the Emergency Planning Commission as soon as the discharge is detected.

In the event of a discharge that threatens to result in an emergency condition, TCEQ must be notified immediately, and in no case later than within one (1) hour of the discovery of the discharge. An emergency condition is any condition that could reasonably be expected to endanger the health and safety of the public; cause significant adverse impact to the land, water, or air environment; or cause severe damage to property.

In the event of a discharge that does not present an emergency, verbal notification must be made as soon as possible but within twenty-four (24) hours of the discovery of the discharge.

4.5.3 Agency Notifications and Reports

Notification to the NRC, EPA, and/or TCEQ must include the following information:

- 1. The name, address, and telephone number of the person making the report.
- 2. The date, time, and location of the spill or discharge.
- 3. A specific description or identification of the oil, petroleum product or hazardous substances or other substances discharged.
- 4. An estimate of the quantity discharged or spilled.
- 5. The duration of the incident.
- 6. The name of the surface water or a description of the waters in the state affected or threatened by the discharge or spill.
- 7. The source of the discharge or spill.
- 8. A description of the extent of actual or potential water pollution or harmful impacts to the environment and identification of any environmentally sensitive areas or natural resources at risk.
- 9. The names, addresses, and telephone numbers of the responsible person and the contact person at the location of the spill or discharge.
- 10. A description of any actions that have been taken, are being taken, or will be taken to contain and respond to the discharge or spill.
- 11. Any known or anticipated health risks.
- 12. The identity of any government representatives, including local authorities or third parties, responding to the discharge or spill.
- 13. Any other information that may be significant to the response action.

Written reports of an unauthorized discharge, fire or explosion will be submitted by Switch to federal, state, and county agencies in addition to verbal notification in accordance with state and local regulations. Written notification will be submitted to the TCEQ Regional Manager within 30 working days of a reportable discharge or spill in accordance with 30 TAC 327. Written notification to the TCEQ Regional Manager will contain the information listed above and one of the following:

- ▶ A statement that the discharge or spill response has been completed and a description of how the response action was conducted.
- ▶ A request for an extension of time to complete the response action along with the reasons for the request (the extension request must contain a projected work schedule outlining the response action).
- ▶ A statement that the discharge or spill response action has not been completed nor is it expected to be completed within the maximum allowable six-month extension (the statement will explain why completion of the response action is not feasible and include a projected work schedule outlining the remaining tasks to complete the response action).

Upon request of local government responders, the Facility should reasonably attempt to notify property owners or residents of the property upon where a discharge or spill occurred as well as the occupants of any property that the Facility reasonably believes is adversely affected. Notification should take place as soon as possible, but no later than two weeks after discovery of the spill or discharge.

5.	TEMPORARY STORMWATER SECTION (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC $\S213.5(b)(4)(A)$, (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>Deborah Walden-Hersh</u>
Date: <u>July 1, 2025</u>
Signature of Customer/Agent:
Deborah Walden-Hersch
· · · · · · · · · · · · · · · · · · ·

Regulated Entity Name: TX AUS 4

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 les 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.
	igstyle igstyle igstyle 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.
1.	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.
S	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.
5.	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: <u>Brushy Creek</u>

Temporary Best Management Practices (TBMPs)

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

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

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

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

Soil Stabilization Practices

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

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

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

Administrative Information

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

5.1 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 found in Section 4.4.

5.2 Attachment B – Potential Sources of Contamination

The emergency engine and fire water pump tanks are prefabricated and delivered to the site intact and empty. Construction activities associated with placement of the tanks include trucks driving into the site to deliver equipment. Potential sources of contamination from construction activities associated with the commercial development of the property are not addressed as part of this plan.

5.3 Attachment C – Sequence of Major Activities

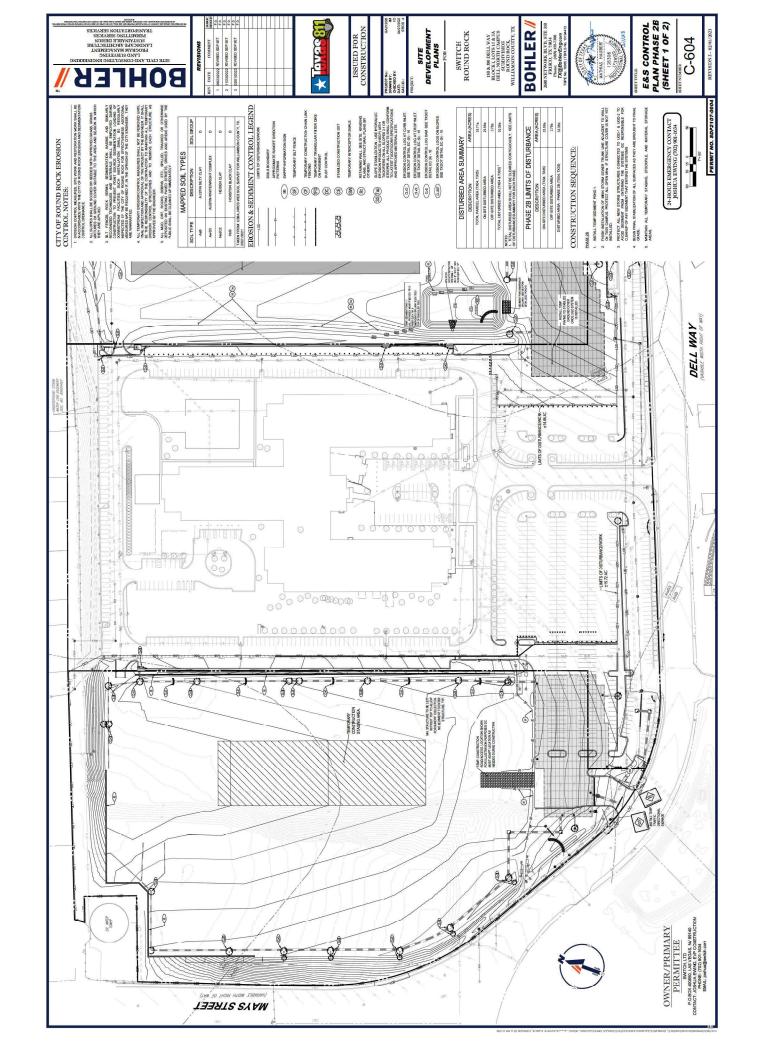
The emergency engine and fire water pump tanks are prefabricated and delivered to the site intact and empty. Construction activities associated with placement of the tanks include trucks driving into the site to deliver equipment. Tanks were placed on concrete pads or within a building associated with commercial development that is not subject to 30 TAC 213.5(b). Construction activities associated with the commercial development of the property are not addressed as part of this plan.

5.4 Attachment D – Temporary Best Management Practices and Measures

All driving surfaces on Switch property are paved. Prior to paving all roads, best management practices employed for truck traffic included, but were not limited to the following. An erosion and sediment control map is also included for reference.

- ► Establishment of a construction entrance. Periodic top dressing was applied and sediment removed as needed to prevent tracking sediment off-site.
- ▶ A silt fence was installed. The silt fence was replaced/repaired as needed when damaged. When sediment depth reached 6 inches, the sediment was removed.

Figure 5-1. Erosion and Sediment Control Map



5.5 Attachment F – Structural Practices

The emergency engine and fire water pump tanks are prefabricated and delivered to the site intact and empty. Construction activities associated with placement of the tanks include trucks driving into the site to deliver equipment. No diversion of flows were required for this short duration construction activity.

5.6 Attachment G - Drainage Area Map

The emergency engine and fire water pump tanks are prefabricated and delivered to the site intact and empty. Construction activities associated with placement of the tanks include trucks driving into the site to deliver equipment. Tanks were placed on concrete pads or within a building associated with commercial development that is not subject to 30 TAC 213.5(b). The area where tanks are placed is less than 10 acres. Erosion and sediment control measures are described in Section 5.4, and an erosion and sediment control map is also included for reference.

5.7 Attachment I – Inspection and Maintenance for BMPs

All driving surfaces on Switch property are paved. Prior to paving all roads, best management practices employed for truck traffic are described in Section 5.4. Inspections for these best management practices were conducted daily.

5.8 Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Tanks were placed on concrete pads or within a building associated with commercial development that is not subject to 30 TAC 213.5(b). No stabilization is needed for the aboveground storage tanks. An erosion and sediment control map is also included in Section 5.4 describing final stabilization used as part of the commercial development of the property.

6. AGENT AUTHORIZATION FORM (TCEQ-05	599)
--------------------------------------	------

Agent Authorization Form

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

STEVEN ROBERTS
Print Name
VICE PRESIDENT OF CONSTRUCTION DEVELOPMENT Title - Owner/President/Other
Title - Owner/President/Other
of SWITCH, LTD.
Corporation/Partnership/Entity Name
have authorized PEBORAH WALDEN-HERSH Print Name of Agent/Engineer
Print Name of Agent/Engineer
of TRINITY CONSULTANTS, INC.
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

Applicant's Signature

6/3/25 Date

THE STATE OF HEVADA &

County of Clark §

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

GIVEN under my hand and seal of office on this 3 day of June ,2025.

MELANIE MORGAN
Notary Public-State of Nevada
APPT. NO. 06-107212-1
My Appt. Expires 09-21-2025

NOTARY PUBLIC DISCON

Melanie Morgan
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 9-21-2025

7.	APPLICA	TION FEE	FORM	(TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality Name of Proposed Regulated Entity: TX AUS 4 Regulated Entity Location: 150 Dell Way, Round Rock TX Name of Customer: Switch Ltd Contact Person: Aarron Klundt Phone: 512-684-9644 Customer Reference Number (if issued): CN 605965805 Regulated Entity Reference Number (if issued):RN 111390985 **Austin Regional Office (3373)** Havs Travis X Williamson San Antonio Regional Office (3362) Medina Uvalde Bexar Comal Kinney Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: Austin Regional Office San Antonio Regional Office Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier **Revenues Section** 12100 Park 35 Circle Mail Code 214 Building A, 3rd Floor P.O. Box 13088 Austin, TX 78753 Austin, TX 78711-3088 (512)239-0357 Site Location (Check All That Apply): Recharge Zone Contributing Zone X Transition Zone Type of Plan Size Fee Due Water Pollution Abatement Plan, Contributing Zone \$ Plan: One Single Family Residential Dwelling Acres Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks Acres Water Pollution Abatement Plan, Contributing Zone \$ Plan: Non-residential Acres \$ Sewage Collection System L.F. Lift Stations without sewer lines Acres \$ Underground or Aboveground Storage Tank Facility 16 Tanks \$ 6,500 Each \$ Piping System(s)(only) Each \$ Exception Each \$ Extension of Time Delorah Walden-Herse Signature: Date: 7/1/2025

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150

8. OWNER AUTHORIZATION FORM (TCEQ-21)



Owner Authorization Form

Edwards Aquifer Protection Program

Instructions

Complete the following form by adding the requested information in the fields below. The form must be notarized for it to be considered complete. Attach it to other programmatic submittals required by 30 Texas Administrative Code (30 TAC), Chapter 213, and provide it to TCEQ's Edwards Aquifer Protection Program (EAPP) as part of your application.

If you have questions on how to fill out this form or about EAPP, please contact us by phone at 512-339-2929 or by e-mail at eapp@tceq.texas.gov.

Landowner Authorization

I, STEVEN ROBERTS of TX AUS 4 LLC

am the owner of the property located at:

150 DELL WAY, ROUND ROCK, TX 78664

and am duly authorized in accordance with 30 TAC 213.4(c)(2) and 213.4(d)(1), or 30 TAC 213.23(c)(2) and 213.23(d), relating to the right to submit an application, signatory authority, and proof of authorized signatory.

I do hereby authorize Switch, Ltd.

To conduct data center operations including installation of storage tanks At 150 DELL WAY, ROUND ROCK, TX 78664

Landowner Acknowledgement

I understand that Switch, Ltd.

Is ultimately responsible for the compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation even if the responsibility for compliance and the right to possess and control the property referenced in the application has been contractually assumed by another legal entity. I further understand that any failure to comply with any condition of the executive director's approval is a violation and subject to administrative rule or orders and penalties as provided under 30 TAC 213.10, relating to enforcement. Such violations may also be subject to civil penalties.

Landowner Signature
Smlobat
Landowner Signature
7/17/25
Date
THE STATE § OF TEXAS
County § of Williamson
BEFORE ME, the undersigned authority, on this day personally appeared
Steven Roberts
known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.
GIVEN under my hand and seal of office on this \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Shaylo Lozaro
NOTABY PUBLIC SHAYLA LAZARO Notary Public
State of Nevada Appt. No. 24-7094-01 My Appt Expires October 4, 2028 MY COMMISSION EXPIRES: 10 4 2028
Optional Attachments
Select All that apply:
☐ Lease Agreement
□ Signed Contract
□ Deed Restricted Easement
☐ Other legally binding documents

9. CORE DATA FORM (TCEQ-1040

TCEQ Use Only



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.)

Renewal	(Core Data	Form sh	ould be submi	tted with the re	newal form)		Other				
2. Customer Reference Number (if Issued) Follow this link t for CN or RN nu							7.1	3. Regulated Entity Reference Number (if issued)				
CN 605965805 Central Regis								111390985				
CTIO	N II:	Cus	tomer	Inforn	natior	1						
. General Cu	ıstomer i	nformat	ion	S. Effective	Date for C	ustomer Ir	formation	Updates (mm/c	id/yyyy}	7 1		
New Custo	mer		⊠ u	pdate to Custo	mer informa	ation	Cha	nge in Regulated	Entity Own	ership	1	
]Change in L	egal Name	(Verifiab	le with the Te	cas Secretary o	f State or Te	xas Comptro	ller of Publi	c Accounts)				
			d here may l Public Accou		utomatica	lly based o	n what is o	current and act	ive with t	he Texas Sec	retary of State	
Customer	Legal Nar	ne (If an	individual, pri	nt last name fir	st: eg: Doe,	John)		<u>If new Custom</u>	e <u>r, enter p</u> i	revious Custom	er below:	
WITCH LTD												
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits								9. Federal Ta	x ID			
804037871 32078948836								(9 digits)				
								510500225				
L. Type of C	ustomer:		□ Corporat	ion			☐ Indivi	dual	Partn	ership: 🔲 Gen	eral 🔲 Limited	
vernment: [City 🔲	County [Federal 🔲	Local State	Other		☐ Sole P	roprietorship	□ O1	ther:		
. Number	of Employ	ees						13. Independ	lently Ow	ned and Ope	erated?	
0-20	21-100	101-2	50 🔲 251-	500 🛮 501	and higher			Yes	⊠ No			
l. Custome	Role (Pro	posed or	Actual) – as i	t relates to the	Regulated E	intity listed c	n this form.	Please check one	of the foll	owi ng		
Owner Occupation	ıl Licensee	Op	erator esponsible Par		ner & Oper /CP/BSA App			Oth	er:			
5. Mailing	PO BOX	400850										
ddress:	City	LAS VE	GAS		State	NV	ZIP	89140		ZIP + 4		
5. Country F	/lailing In	formati	on (if outside	USA)	1	17	l 7. E-Mail A	 ddress (if applica	able)	Į		
						pe	ermits@swit	ch.com				
				11724								

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

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)										
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information										
The Regulated Entity Na	me submitte	ed may be updo	ated, in order to m	eet TCE	Q Core Da	ta Stai	ndards (ren	noval of or	ganizatio	nal endings such
as Inc, LP, or LLC).										
22. Regulated Entity Nan	ne (Enter nam	ne of the site whe	ere the regulated acti	ion is tak	ing place.)					
TX AUS 4										
23. Street Address of the Regulated Entity:	150 DELL W	/AY		8-6						
4		-/-					ap			-
(No PO Boxes)	City	ROUND ROCK	State	TX	ZIF	•	78664		ZIP + 4	
24. County	WILLIAMSC	М								
If no Street Address is provided, fields 25-28 are required.										
25. Description to										
Physical Location:										
26. Nearest City State Nearest ZIP Code										
								<u> </u>		
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).										
27. Latitude (N) In Decim	7. Latitude (N) In Decimal: 30.48796 28. Longitude (W) In Decimal: -97.67249								19	
Degrees	Minutes		Seconds		Degrees Minu			nutes Seconds		Seconds
30		29	16.656			97		40		20.9634
29. Primary SIC Code	30.	Secondary SIC	Code	31. P	rimary NA	ICS Co	de	32. Secor	ndary NA	CS Code
(4 digits)	(4 d	ligits)			6 digits)			(5 or 6 dig	its)	
7374 518210										
33. What is the Primary 8	Business of t	his entity? (C	o not repeat the SIC	or NAICS	description)				
DATA HOSTING										
	150 DELL WAY									
34. Mailing										
Address:							T			
	City	ROUND ROCK	State	TX		ZIP	78664		ZIP+4	
35. E-Mail Address:	peri	mits@switch.cor	n							
36. Telephone Number			37. Extension of	r Code		38. F	ax Number	(if applicabl	e)	
(512) 684-9644										

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		
		TBD					
Municipal Solid Waste	New Source Review Air	OSSF		Petroleum Storage Tank	□ PWS		
	176736			94219			
Sludge	Storm Water	☐ Title V Air		Tires	Used Oil		
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agri	iculture	☐ Water Rights	Other:		
ECTION IV: P	<u> </u>	ormation			THE CONTRACTOR		
O. Name: STEVEN ROBE	RTS		41. Title:	VP OF CONSTRUCTION C	PEVELUPMENT		
2. Telephone Number	43. Ext./Code	44. Fax Number	45. E-M	ail Address			
702) 522-5405		() -	PERMITS	@SWITCH.COM			
ECTION V:_A	uthorized S	ignature					
· · · · · · · · · · · · · · · · · · ·		-			te, and that I have signature authori		

Company:	SWITCH LTD	Job Title:	VP OF CO	NSTRUCTION I	DEVELOPMENT
Name (In Print):	STEVEN ROBERTS			Phone:	(702) 522- 5405
Signature:	Mobun			Date:	7/17/25

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

10. GEOLOGIC ASSESSMENT FORM (TCEQ-0585)

GEOLOGIC ASSESSMENT

Edwards Aquifer Recharge/Transition Zones



Switch, Ltd. / TX AUS 4

Prepared By:

TRINITY CONSULTANTS

9737 Great Hills Trail, Suite 340 Austin, TX 78759 (512) 349-5800

June 2025

Project 244404.0330

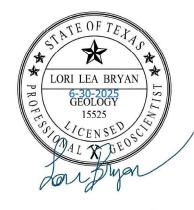




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1. INTRODUCTION

This narrative Geologic Assessment accompanies Geologic Assessment Form TCEQ-0585 (Appendix A), prepared by Sespe Consulting, Inc. (Sespe) in accordance with 30 Texas Administrative Code (TAC) §213.5(e), for a proposed Aboveground Storage Tank (AST) Facility Plan submitted to the Texas Commission on Environmental Quality (TCEQ). Switch, Ltd. (Switch®) owns and operates a data center campus at 150 Dell Way, Round Rock, Williamson County, Texas (TX AUS 4).

As part of the AST facility, Switch will operate and maintain 15 emergency generators and 1 fire water pump, and their associated ASTs for diesel fuel at the 150 Dell Way campus (the Project). All tanks are constructed of steel and are double walled to provide secondary containment.

The Project lies within the transition zone of the Edwards Aquifer. In accordance with the geologic assessment required under 30 TAC §213.5(e)(2), this assessment is limited to the approximately 14-acre developed parcel located at 150 Dell Way, Round Rock, Texas, identified by Williamson County Property ID R616976.

The Project site is currently developed, consisting of graded soils, asphalt, concrete, and the approximately 178,000 square foot Switch Data Center building. This assessment was conducted following site development. As such, site conditions may not reflect pre-construction geologic surface expressions or feature visibility.

To inform this study, Sespe utilized various data sources, including observations from a site visit; site-specific drilling data presented in the Geotechnical Engineering Report prepared by Intertek PSI (2021); documentation of historical land use and constructed features contained in the Phase I Environmental Site Assessment (Pape-Dawson Engineers Inc., 2021); maps published by the United States Geological Survey (USGS); aerial imagery; soils data from the National Resources Conservation Service (NRCS); and records obtained through a data request submitted to the Texas Speleological Survey (TSS). Regional and site-specific geology and soils are also presented in Appendix B and Appendix C.

To support this assessment, a field survey was conducted on June 13, 2025, under the direction of a Texaslicensed Professional Geoscientist (PG). The survey was limited to surface-accessible portions of the site and is not intended to represent a comprehensive investigation. With the exception of the northwestern region of the Switch Data Center building, which houses the fire pump AST, the field survey did not access the interior or roof of the building.

In all accessible areas, the field survey was conducted by walking parallel transects spaced approximately 50 feet apart, consistent with guidance provided in the TCEQ Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (Rev. 10-01-04). Where vegetation or site features limited ground visibility, transect spacing was reduced as appropriate. The survey also included general observations of site development and visible infrastructure, including concrete and asphalt surfaces, manholes, utility access points, and containment features such as storm drains and concrete-lined channels.

In particular, the survey focused on potential karst indicators, such as depressions, voids or solution cavities, and exposures created by burrowing animals, were visually inspected and, where feasible, examined using non-invasive field techniques. These techniques included shallow probing with a hand tool to assess infill material, checking for air movement suggestive of voids, and observing vegetation or ground features indicative of subsurface disturbance (e.g., semi-circular soil mounding by burrowing animals). Observations were constrained to what was visible at the ground surface at the time of the site visit and should not be interpreted as a complete inventory of subsurface or previously disturbed features.

Available literature and database resources were reviewed to identify any known karst features within the vicinity of the site. No such features were identified based on the TSS response or publicly available mapping (Appendix E).

3.1 Site Overview

The Project is situated within the Transition Zone of the Edwards Aquifer. More specifically, it is situated in the central portion of the Transitions Zone (or confined zone) within the Northern Segment of the Edwards Aquifer.

A majority of the Project site is developed and overlain by asphalt and concrete, and includes a security fence, a parking lot, and an approximately 178,000 square-foot building. The ASTs associated with the emergency generators are situated on a concrete pad adjacent to the building at 150 Dell Way. As noted previously, the AST associated with the fire pump is situated in the northwestern corner of the Switch Data Center building. All ASTs contain diesel fuel and are constructed of steel. The emergency generator tanks are 7,458 gallons each, and the fire pump tank is 187 gallons.

Graded elevations of the 150 Dell Way property range from 793 to 823 feet above mean sea level (amsl), with topographic highs along the northern and western boundaries of the property. Within the AST area, surface elevations range from approximately 803 feet amsl in the south to 807 feet amsl in the north, with a gentle slope toward the south.

The AST area is bordered on the west, east and south by the storm water collection system. A concrete-lined stormwater collection channel is located directly west of the AST area, which flows south towards the underground detention system. Storm drains and underground channels are located directly east and south of the AST area, which also flows south into the underground detention system. Representative photos of the storm water collection system have been included in Appendix D. The underground detention system is situated beneath the parking lot located south of the building and AST area. Asphalt and concrete cover the entire area inside the 150 Dell Way property security fencing. Representative photos of the asphalt parking areas, concrete pads, as well as a photo of the portion of the building containing the fire pump AST are provided as Appendix D. A small area of open disturbed land is present outside of the fenced area.

3.2 Geology

The project property is underlain by the Eagle Ford Group (Kef), as mapped in the Geologic Atlas of Texas, Austin sheet (Barnes et al., 1974) and shown in Appendix C. Descriptions of the geologic units that underlie the Project site are based on the unit descriptions provided in the Geologic Database of Texas (2014) and depicted in the stratigraphic column (Appendix B). The Eagle Ford Group is generally 25-26 feet thick, with the upper units consisting predominantly of shale. The middle units are composed of silty limestone that grades to calcareous siltstone, and the lower unit is primarily a calcareous shale. The Eagle Ford Group overlies the Buda Limestone (Kub), which is a fine-grained bioclastic, poorly bedded limestone that is argillaceous near the upper contact and is approximately 45 feet thick. The Buda Limestone overlies the Del Rio Clay (Kdr) and Georgetown Formation (Kgt), and these units have a combined thickness of approximately 70 to 150 feet. The Del Rio Clay becomes calcareous and gypseriferous with depth and the Georgetown Formation is a fine-grained limestone and marl. Underlying these units is the Edwards Group limestones; together, the Georgetown Formation and Edwards Group compose the Edwards aquifer. According to the region of the Texas Aquifer Study (Texas Water Development Board (TWDB), 2016), the Switch Data Center project and AST area are located downdip of the outcropping Edwards Group where the aquifer is confined by the

overlying Del Rio Clay. The Walnut Formation (Kw), Paluxy Formation, and upper member of the Glen Rose Formation (Kgr) are the lower confining units underlying the Edwards Aquifer in this region (Jones, 2003).

The Project site is situated within the Northern Segment of the Edwards Aquifer (Balcones Fault Zone), which is characterized by extensive northeast trending, steeply dipping normal faults. These faults exhibit net displacements on the order of 600 to 1,000 feet (Jones, 2003), and create complex hydrogeologic conditions. In some regions faults create preferential flow paths and contribute to fracturing of the limestone units that aid in the development of karst features, and in some regions, faults create barriers for groundwater flow (Jones, 2003). No faults are mapped directly within the Project area, nor was any surface evidence of faulting identified during the field survey. Several northeast trending normal faults are mapped nearby the Project. One northeast trending normal fault is mapped approximately 110 feet south of the Project area and is visible in the Geologic Map included in Appendix C. Additionally, two other northeast trending normal faults are situated approximately 0.5 miles and 1 mile northwest of the Project.

No wells were found in a search for water wells located within the Project area using the Texas Water Development Board's Groundwater Data Viewer, and no wells were observed during the field survey. Sixteen (16) geotechnical borings were advanced across the site to depths ranging from 15 to 60 feet below ground surface (bgs) as part of a subsurface investigation conducted by Intertek PSI (2021); the boring locations and logs are provided in Appendix F. Based on the PSI report, the shallow subsurface geology is dominated by fat and lean clays with varying sand content, underlain by high-plasticity clays, marl, clay-shale, and shale. Bedrock units mapped in regional geologic sources, such as the Eagle Ford Group and Buda Limestone, were not encountered within the boring depth range and are interpreted to lie beneath these surficial materials. Following completion, each boring was abandoned by backfilling with soil cuttings and bentonite pellets and capped with asphalt or concrete as appropriate.

No rock outcrops were observed during the field survey. While field identification of geologic units was hampered by previous land disturbance within the Project area, based on the geotechnical studies previously referred, the area discussed in detail in Section 3.4 below, bedrock is expected to be buried by several feet of soil across the Project site.

3.3 Soils

A review of the U.S. Natural Resources Conservation Service (NRCS) soils data indicates that two soil types are present across the Project site: Austin silty clay, 1 to 3 percent slopes, and Austin-Whitewright complex, 2 to 6 percent slopes, eroded. A restrictive layer is typically observed around 29 inches bgs for both soils. The soils are also both classified as well drained, with high runoff potential. Both soils are also classified as hydrologic group "D," which indicates very slow infiltration rates, likely due to their moderately low saturated hydraulic conductivity and relatively shallow depths to restrictive layers. Mapped soil units are shown in Appendix C.

Surface observations of soil texture were generally consistent with the mapped Austin silty clay and Austin-Whitewright complex; however, natural soil profiles have likely been disturbed or altered by grading activities associated with site development, limiting definitive field verification.

3.4 Site Hydrogeologic Assessment

The site hydrogeologic assessment is based on a review of relevant literature, the prior geotechnical and environmental studies completed at the Project site, and observations during the field survey. Based on the steady-state groundwater elevations for the Northern segment of the Edwards Aquifer, groundwater

elevations in the region of the Project are expected to be approximately 650 feet amsl, which equates to approximately 150 feet bgs (Jones, 2003). In the absence of recharge features, this suggests a considerable vertical separation between the surface and the upper Edwards Aguifer.

Additionally, in support of the geotechnical engineering report (Intertek PSI, 2021), the exploratory borings completed on-site indicate that clay rich soil generally extends to 7 to 25 feet bgs, with occasional thin layers of gravel. In the boreholes that extend past soil horizon, the lithologic logs indicate shale and occasional layers of marl approximately 10 feet thick, which is consistent with the Eagle Ford Group shales and silty limestone. During and after drilling groundwater was encountered in six of the borings, at depths ranging from 4 feet to 40 feet bgs. However, as stated in the geotechnical engineering report, in relatively low-permeability soils, water levels observed in the borings may not provide a reliable indication of groundwater elevations, even after several days (PSI, 2021); therefore, a potentiometric surface contour map was not interpreted for the site. While the site groundwater data are limited, it is likely that the observed groundwater represents perched conditions or cross-formational flow based on known depths associated with regional groundwater table. Cross-formational discharge, in which groundwater rises from the Edwards Aquifer into overlying units, is a known phenomenon within the confined portion of the Northern Segment (Jones, 2003).

No visible karst features, such as caves, solution cavities, solution enlarged fractures, swallow holes, and sinkholes, or potential recharge features were identified on site. The majority of the Project site and all regions containing ASTs have been developed and are covered by impervious surfaces (asphalt and concrete). Recharge is not expected to occur beneath impervious surfaces, as these areas have high runoff potential. Recharge of the Edwards Aquifer primarily occurs in regions where the Georgetown Formation and Edwards Group outcrop at the surface (Jones, 2003). These units do not outcrop within the region of the project site. The underlying geology at the Project site is the Eagle Ford group. Caves are not known to occur in this unit. Additionally, based on the review of literature and the data request from the Texas Speleological Society, no known caves or karst features are located within one mile of the Project site (Appendix E).

In addition to karst features the site was also examined for evidence of faults, non-karst closed depressions, other natural bedrock features, and manmade features in the bedrock. No evidence of faults, non-karst closed depressions, or other natural bedrock features were observed during the field survey. One soil-floored non-karst manmade feature was immediately adjacent to the southwestern property boundary during the field survey. Specifically, an approximately 7-inch by 4-inch opening in the soil was observed at the collar of an electrical access point (hereafter referred to as EA). The opening extended to at least 26 inches deep. A photo of EA is included in Appendix D, and its location is shown on the Geologic Map (Appendix C). EA is lined with thick, moist clay sediment and therefore has a low probability for rapid infiltration. This interpretation is further supported by a boring located approximately 180 feet northwest of EA, which was drilled to 20 feet bgs and encountered clay-rich soil throughout the full depth of the boring (Appendix F – Boring D1). Given this nearby boring data, further assessment of EA is not considered necessary. EA is included in the Geologic Assessment Table (Appendix A) for full disclosure and is conservatively categorized as a 'manmade feature in bedrock' for regulatory completeness, although field conditions suggest it does not penetrate native geologic material.

4. CONCLUSION

The geologic assessment covers the 150 Dell Way property on which the AST facility is located. The site is underlain by the Eagle Ford Group, which in turn overlies the Buda Limestone and Del Rio Clay. This assessment was conducted following completion of site development; as such, surface observations of soil and geologic features were limited to areas not obscured by asphalt, concrete, fencing, retaining walls, or buildings. This geologic assessment incorporates photographic documentation and field notes from both developed and open disturbed areas of the 150 Dell Way property, as well as observations of surrounding land use.

Based on the absence of visible karst features, mapped faults, or other manmade and geologic features of concern within the areas accessible during the field survey; the review of literature, maps, aerial imagery; the extent of impervious cover at the site (asphalt and concrete); the predominance of fine-grained, clayey soils in the upper subsurface; and the approximately 150-foot vertical separation (including several confining units) between the shallow perched saturated intervals and the regional water table, in our opinion, the potential for rapid fluid migration to the Edwards Aquifer at the Project site is low.

Given these site conditions, the presence of secondary containment, and the nature of the material stored in the ASTs (diesel fuel), it is our opinion that if a surface release were to occur at the site, the potential for migration and impact to the regional groundwater system (the Edwards Aquifer) would be low, provided that timely and appropriate response and countermeasures are implemented.

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Texas Commission on Environmental Quality (TCEQ), 2004. *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones.* Rev. 10-01-04.

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Texas Water Development Board (TWDB), 2016. Aguifers of Texas. TWDB Report 380.

U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), n.d. *Web Soil Survey*. Accessed 2025. Available at: https://websoilsurvey.nrcs.usda.gov/

United States Geological Survey (USGS), various dates. *Topographic Maps and Aerial Imagery*. Accessed 2025. Available at: https://www.usgs.gov/

APPENDIX A. GEOLOGIC ASSESSMENT FORM AND TABLE

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.

213.	
Print Name of Geologist: Lori Bryan	Telephone: <u>405-201-6730</u>
Date: June 30, 2025	Fax: <u>805-667-8104</u>
Representing: <u>Sespe Consulting, Inc. TBPG1</u> TBPE registration number)	
Signature of Geologist:	STATE OF TEXT
Lori Bryon	LORI LEA BRYAN
Regulated Entity Name: TX AUS 4	GEOLOGY 15525 CENSED
Project Information	ONAL X GEOS
1. Date(s) Geologic Assessment was perfo	rmed: <u>June 13, 2025</u>
2. Type of Project:	
	☐ UST
☐ Recharge Zone ☐ Transition Zone	

Contributing Zone within the Transition Zone

4.	4. Attachment A - Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.									
5.	Hydrologi 55, Apper	c Soil Gro ndix A, Soi	oject site is summups* (Urban Hydr I Conservation Se ow each soil type	ology for	or Small W 986). If the	atershe ere is m	eds, Techr nore than	ical Release No. one soil type on		
	ble 1 - Soil U aracteristics	-			Soil Na	ime	Group*	Thickness(feet)		
	Soil Name	Group*	Thickness(feet)]	* 6 11		- C: :::	7011		
p	Austin silty clay, 1 to 3 ercent slopes	D	1.6 to 3.3 ft		* Soil Group Definitions (Abbreviate A. Soils having a high infiltratio rate when thoroughly wette B. Soils having a moderate infiltration rate when thorou					
С	Whitewright complex, 2 to 6 percent lopes, eroded D 1.6 to 3.3 ft				wetted. C. Soils having a slow infilt rate when thoroughly w D. Soils having a very slow					
						infiltro wette		when thoroughly		
6.7.	 Attachment B – Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column. Attachment C – Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached. 									
8.	 Attachment D – Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400' Applicant's Site Plan Scale: 1" = 40' Site Geologic Map Scale: 1" = 40' Site Soils Map Scale (if more than 1 soil type): 1" = 40' 									
9.	Method of co	llecting p	ositional data:							
	☐ Global Positioning System (GPS) technology. ☐ Other method(s). Please describe method of data collection:									

10. 🔀 1	The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. 🔀 S	Surface geologic units are shown and labeled on the Site Geologic Map.
i	Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
	Geologic or manmade features were not discovered on the project site during the field investigation.
13. 🔲 1	The Recharge Zone boundary is shown and labeled, if appropriate.
	nown wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If licable, the information must agree with Item No. 20 of the WPAP Application Section.
]] 	There are 16 (#) 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.
Admi	inistrative Information
	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.

GEOL	OGIC /	ASSESS	SMEN.	T TAE	3LE		PR	OJE	CT NA	ME	Ξ:									
L	OCATIO	FEA	FEATURE CHARACTERISTICS								EVALUATION			PHYSICAL		. SETTING				
1A	1B *	1C*	2A	2B	3		4		5	5 5A 6 7 8A		8A	8B	9	9 10		11	1	12	
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS ((FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY	CATCHMI (ACI		TOPOGRAPHY
						Х	Υ	Z								<40	<u>>40</u>	<1.6	<u>>1.6</u>	
EA	30.486254	-97.671651	MB	30	Kef	0.6	0.3	2.2	-	0	-	-	F	5	35	X		Х		Hillside
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* DATUM:

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
None, exposed bedrock
Coarse - cobbles, breakdown, sand, gravel
Loose or soft mud or soil, organics, leaves, sticks, dark colors
Fines, compacted clay-rich sediment, soil profile, gray or red colors
Vegetation. Give details in narrative description
Flowstone, cements, cave deposits
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 Ceologists. 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. STATE OF TEXAS

Date June 30, 2025

Sheet __1__ of ___1__

LORI LEA BRYAN

GEOLOGY 15525

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

APPENDIX B. STRATIGRAPHIC COLUMN

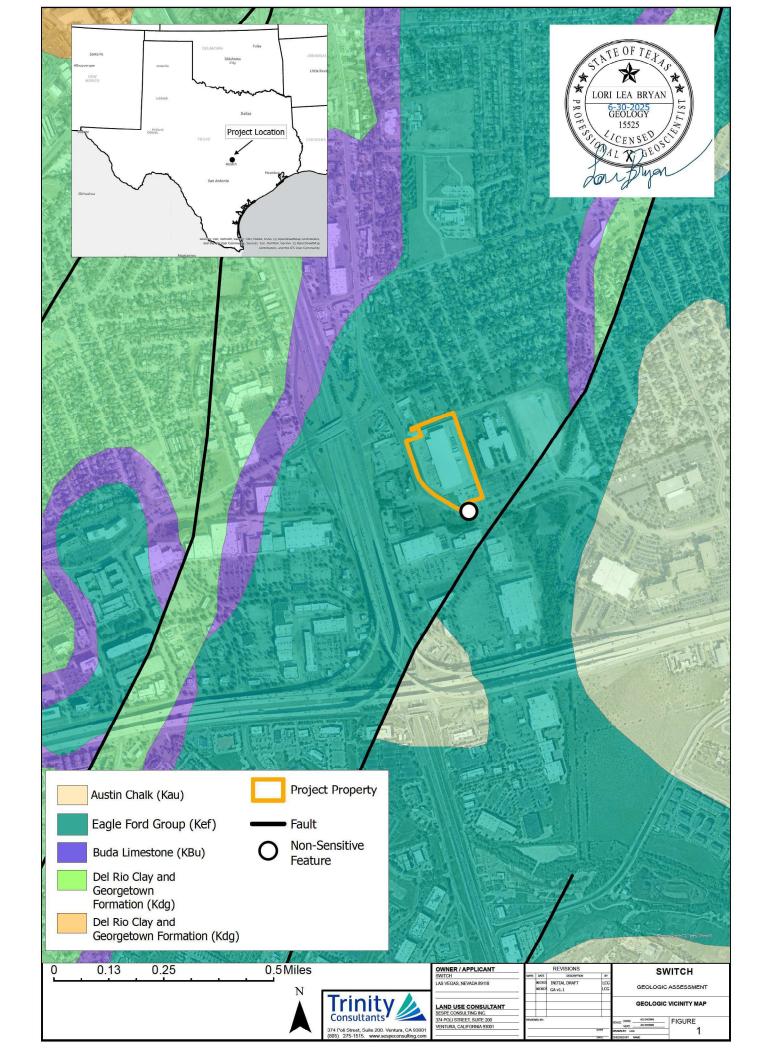
Stratigraphic column

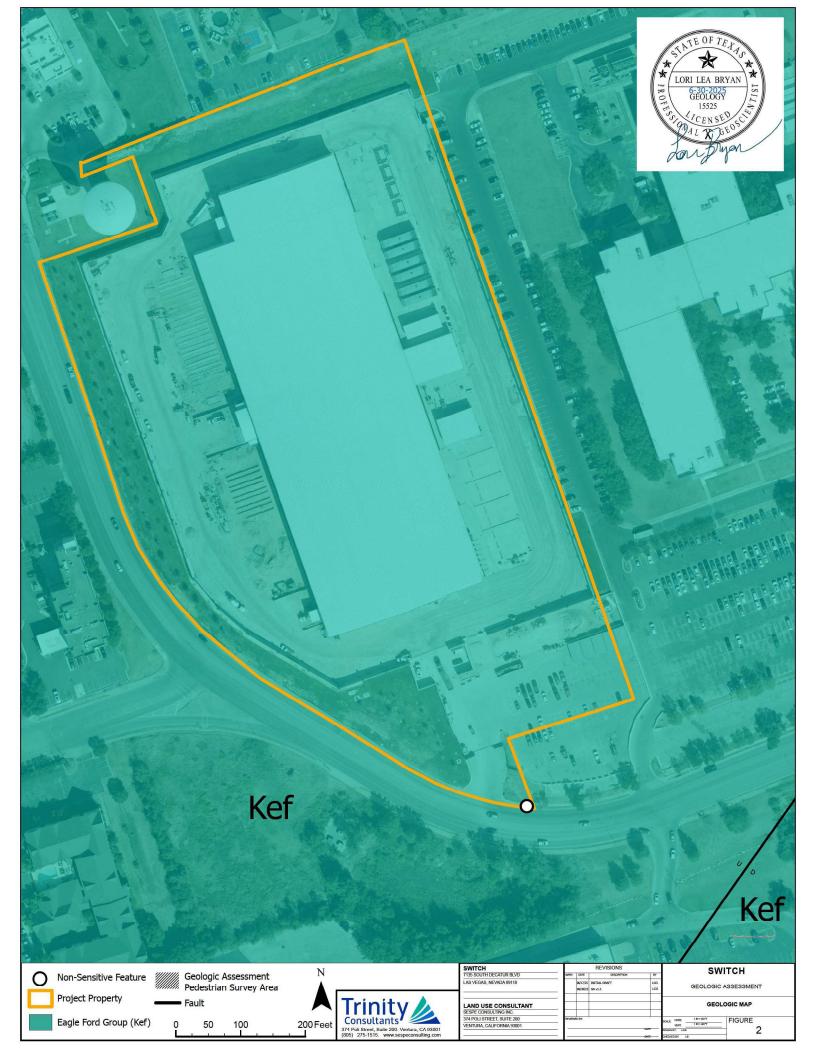
Note: Shaded areas represent the lithology that outcrops on the property

sno	Units	Eagle Ford Group: 25 – 65 feet thick
Upper Cretaceous	Upper Confining Units	Buda Limestone: 40-50 feet thick
Nppe	Upper (Del Rio Clay: 40-70 feet thick
	Aquifer	Georgetown Formation: 30-80 feet thick
Lower Upper Cretaceous	Edwards Aquifer	Edwards Formation: 200 to 600 feet thick
Lower Upper	Lower Confining Unit	Walnut Formation: 150 feet thick
	ır Col	Paluxy Formation: 10 feet thick
	Lowe	Upper member of the Glen Rose Formation: 450 feet thick

^{*}Modified from Jones (2003)

APPENDIX C. GEOLOGY AND SOILS MAPS







APPENDIX D. FEATURE DESCRIPTION AND PHOTOGRAPHIC DOCUMENTATION

Feature Description

EA – MANMADE FEATURE IN BEDROCK. This feature is a soil-floored non-karst manmade feature, situated at the collar of an electrical access point. The underlying geologic formation, based on regional mapping and boring data approximately 140 feet to the northwest, is the Eagle Ford Group Shale. However, surface materials at the location of the feature consist of fill or clay-rich soils, and no bedrock was directly observed. At the widest points, the opening is approximately 0.6 feet by 0.3 feet, and 2.2 feet deep. The feature is lined with thick, moist clay sediment. Given the clay-rich soil profile observed in nearby borings and the shallow depth of the feature, it is unlikely to represent exposure of native bedrock. This feature is not sensitive, and the area was not further excavated. For regulatory completeness, it is conservatively categorized as a "manmade feature in bedrock."



Feature photo of EA.

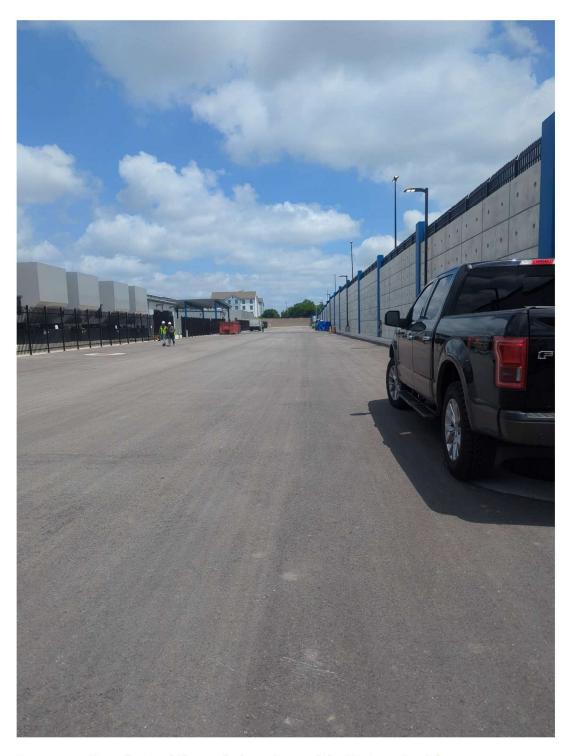


Region surrounding feature EA.

Other representative site photos



Representative photos of the disturbed open regions of the Project site around the Switch Data Center security walls.



Representative photo of the asphalt regions of the Project site. The emergency generators and above ground storage tanks are situated on concrete pads on the left side of this photo.



Representative photos of the concrete and storm drain system situated between the Switch Data Center building and the emergency generators and above ground storage tank areas.



Representative photo of the storm drains installed in the developed region of the Project site along the Switch Data Center Building security walls.



Representative photo of the concrete pads, emergency generators, and above ground storage tank areas.



Photo of a hairline crack in concrete foundation near emergency generators and above ground storage tank area.

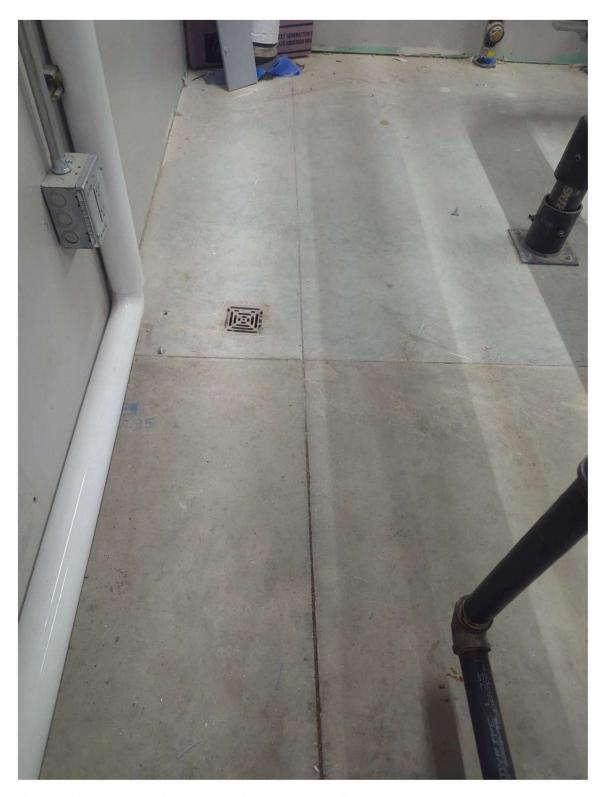
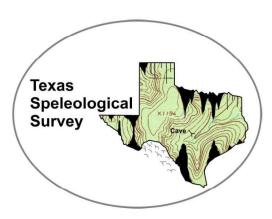


Photo of the concrete floor in the fire pump room below the above ground storage tank.

APPENDIX E. TEXAS SPELEOLOGICAL SURVEY DATA SUMMARY



Texas cave and karst data collected and organized to support science, education, conservation, and exploration

TSS Data Export Summary

Date: 6/14/2025

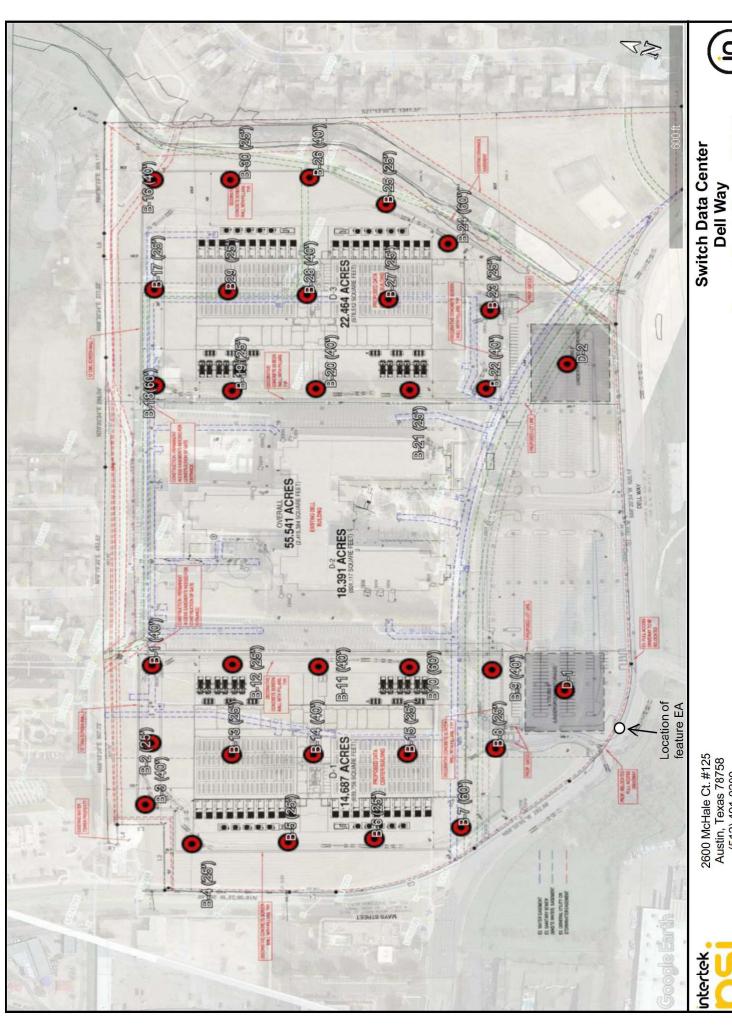
Data Requester Name: Sespe Consulting/Lori Bryan **Geographic Description:** Data Center – Round Rock

Data Request Date: 6/12/25

Based on the provided coordinates, 30.48790°N, 97.67261°W, the TSS database search found no recorded caves or other karst features within a mile.

Marvin Miller TSS Data Request Manager

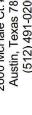
APPENDIX F. GEOTECHNICAL BORING MAP AND BORING LOGS





Round Rock, Texas 78664

2600 McHale Ct. #125 Austin, Texas 78758 (512) 491-0200





Boring Logs



BORING B1

В	ORING B1	, 0,0							LO	CATI	ON: Lat: 30).4891°,	Long: -97.0	6722°
DEPTH, FT. SYMBOL SAMPLES WATER	SOIL DESCRIPTION Elevation:	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (2.0 PL 20	4.0 WC X 40	0.0 LL 6.0 6.0	UNCONF. COMP. (TSF)
	CLAYEY SAND (SC), loose to medium dense, light brown	22 19	0	42	9			52	21	31	*			
5	FAT CLAY (CH), firm to very stiff, light brown - marly at 4 ft to 6 ft	17			50/1					- N	*			
		26	0	91	6			69	23	46	*			
10-		23			9					ė	×			
15		32			10					3		*		
20		26			11					9	*			
		26			20					3	*			
										8	, <u>, , , , , , , , , , , , , , , , , , </u>			
30	CLAY-SHALE(CH), hard, gray	17			50/4						*			

DATE: 7/8/21 Intertek

DEPTH TO GROUND WATER SEEPAGE (ft.): 40 END OF DRILLING (ft.): 40 DELAYED WATER LEVEL (FT): N/A

BORING B1

Bo	ORING B1	· roje	,,,,	110	. 00001	00.	•		LO	CATI	ON: Lat: 30.4891°, Long: -97.6722°
DEPTH, FT. SYMBOL SAMPLES WATER	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	OHAND PEN (TSF) UNC CMP (TSF) 2.0 4.0 6.0 PL WC LL PL WC LL A 40 60 A 40 60
	CLAY-SHALE(CH), hard, gray	36			50/1						*
	ION DEPTH: 40.0 Feet										VATER

DATE: 7/8/21

SEEPAGE (ft.): 40 END OF DRILLING (ft.): 40

BORING B2

		BC	ORING B2								LO	CATI	ON: Lat: 30.	4889°, l	ong: -97.	6728°	•
DEPTH, FT.	SYMBOL SAMPLES	WATER	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TS	4.0	C CMP (TSF) 6.0 LL	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
DEP	SAN	×		Ø Ø Ø	RET	PAS	SP X	%	%	JO.	LAS	PLAS	PL ♣ 20	WC X 40	60) NCOI	JNIT (LB)
			Elevation: FAT CLAY (CH), stiff to hard, brown		%	%				_	<u>a</u>		20	+0	 	5	_
			TAT OLAT (OT), Sun to ridia, brown	27											<u> </u>		
												1	/				
				28									ø ×				
- <u>-</u> -														Ĭ			
														i			
				25			17						×	1			
														i			
				27									*	P			
-10- 														1			
												J.		1			
												1		h:			
												1		l V			
				31								3	*	φ			
-15-																	
												,		Hi			
												ŧ		. III			
														. J			
				25									*				
 -20-																	
/																	
				22													
/				22								1	*	O			
-25		İ		-													
														Tiii			
												1					
 												1					
			ON DEDTH. OF A F							0=			<u></u>	Hii			
	OMPI ATE:		ON DEPTH: 25.0 Feet 3/21				DEP [*] SEE	PAC	E (fi	GR(one E	ID V Encou	VATER intered				

DATE: 7/13/21

BORING B3

LOCATION: Lat: 30.4888°, Long: -97.6733°

		D	DRING BS								LO	CATI	ON: Lat: 30.48	388°, Lor	ng: -97.6	3733°	
DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TSF 2.0 4	i.0 6.	MP (TSF)	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
DEP	SY	W	Elevation:	MOS	% RET	% PAS	SPI TC VA	%	%	LIQU	PLAS	PLAS	PL V	VC LI X 1	• 0	ONCO	UNIT (LB/
			FAT CLAY with SAND (CH), stiff to hard, brown	32		61							*				
				21	0	77				59	20	39	* *	.			
-5-		X		17			21					3	*				
 -10-				24			19					1	*				
 				20									*•	þ		2.5	108
 20-			FAT CLAY (CH), very stiff to hard, gray (shaley)	31	0	89				68	22	46	••		•	S.	
		,										1	1	\ \ \ \			
				30								,	*	φ			
NGS																	
30 				24									* •	φ		3.35	100
19	COM	PLET	ION DEPTH: 40.0 Feet				DEP	гн -	TO	GRO	AL LC	א חו	VATER				

COMPLETION DEPTH: 40.0 Feet

DATE: 7/13/21 Intertek

BORING B3

LOCATION: Lat: 30.4888°. Long: -97.6733°

BORIN	G B3								LO	CATI	ON: Lat: 30.4	888°, L	ong: -97.6	6733°	
DEPTH, FT. SYMBOL SAMPLES WATER	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TSF 2.0	4.0	6.0	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
		MOIS	% RET	% PASS	SPT TC VAI	%	%	LIQUI	PLAST	PLAS	PL V 20		60	UNCON (T	UNIT [
FAT C gray (s	LAY (CH), very stiff to hard, haley)	23									*	Φ			
 		23									×				
-40 	PTH: 40.0 Feet				DED	T. T.	TO	GR		ND V	VATER				

DATE: 7/13/21 Intertek

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SEEPAGE (ft.): None Encountered
END OF DRILLING (ft.): None Encountered

BORING B4

LOCATION: Lat: 30.4884°, Long: -97.6735°

		D	JRING B4				ı				LO	CATI	ON: Lat: 30.4	1884°, L	ong: -97.6	6735°	•
ОЕРТН, FT.	SYMBOL	WATER	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	ON: Lat: 30.4 O HAND PEN (TS 2.0 PL 20	4.0	C CMP (TSF) 6.0	F. COMP. SF)	ORY WT.
DEPT	SYN	SAM	Elevation:	MOIS	% RET	% PASS	SPT TCI VAL	%	₩ -	LIQUII	PLAST	PLAS	PL 20	WC X 40	60	UNCON (T	UNIT D
			LEAN CLAY with SAND (CL), very stiff to hard, brown to light brown	29								Ť	X				
				24	0	76				41	21	20	•	\			
-5-				21								4	*	-φ- 			
				22									*	Φ [] []			
		<u> </u>		22	1	75	17			44	18	26		I		ii.	
												1					
 15			- light brown at 13 ft	21								ā	*	Ф /		9)	
												1	/\				
				37								į	- d	*		a	
												2	X	\			
——————————————————————————————————————				25									*	9		è	
-25												3					
	COM		ION DEPTH: 25.0 Feet				DEP	ГН	ТО	GRO	OUN	D V	VATER	. 		ė.	-

DATE: 7/13/21 Intertek

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BORING B5

LOCATION: Lat: 30.4878°, Long: -97.6732°

		D	JRING BO								LO	CATI	ON: Lat: 30.4878	°, Long: -97	6732	•
DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	MOISTURE	RETAINED #4	PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TSF) (2.0 4.0 PL WC	6.0	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
	0)	S	Elevation:	ΣÖ	% R	√d %	0, -				PLA	Ч	20 40	60	S	S
			FAT CLAY with SAND (CH), very stiff to hard, brown	20	2	82				59	21	38	*	•		
				25								8	*0			
- 5 - 				23								4	 * 9) 		
		X	CLAY EY GRAVEL with SAND (GC), medium dense, light brown	8	38	24	27			51	19	32	*			
			FAT CLAY (CH), very stiff, light brown	29									*/			
												1	\ \ \ \ \			
 15				39									φ* 		-	
				24								1				
				31								9	V X			
NETT GW.GDT			100 0	32) (x			
		8	- gray at 23 ft													
GEO TESTS 00 - SAN ANTONIO RBENNETT GW. GDT 7/33/2	- - - - -											8				
	СОМ		ION DEPTH: 25.0 Feet				DEP	LH .	TO	GRO	OUN	ND A	VATER		1	

DATE: 6/26/21 Intertek

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BORING B6

LOCATION: Lat: 30.4873°, Long: -97.6730°

		ש	DIVING BO								LO	CAII	ON: Lat: 30.4	8/3°, L	ong: -97.	6/30°	
DEPTH, FT.	SYMBOL	WATER	SOIL DESCRIPTION Elevation:	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	ON: Lat: 30.4 O HAND PEN (TS 2.0 PL 20	4.0 4.0 VC X 40	CMP (TSF) 6.0 LL 60	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
			FAT CLAY with SAND (CH), hard, dark brown	18 19	3	74				55	19	36	*	φ.•			
- 5 - - 5 - 			LEAN CLAY with SAND (CL), stiff to hard, light brown	20	4	77	9			44	16	28	*	Φ			
			FAT CLAY (CH), hard, light brown	24	0	96				80	23	57	*	Φ 			
				16									*	Φ			
				28									\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	•			
	COM	PLET	ION DEPTH: 25.0 Feet				DEP	LH .	TO	GRO	ALIC	ע חני	VATER				
	DATE						SEE	PAG	SE (ft	.): No	one E	Encou	untered				

DATE: 6/14/21 intertek

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BORING B7

В	ORING B7				. 00001	-			LO	CATI	ON: Lat: 30.4868°, Long: -97.6727°
DEPTH, FT. SYMBOL SAMPLES WATER	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	ON: Lat: 30.4868°, Long: -97.6727° O HAND PEN (TSF)
- 20	Elevation: FAT CLAY with SAND (CH), stiff to very stiff, light brown - calcareous from 6 ft to 7.5 ft FAT CLAY (CH), hard, light brown - shaley, gray at 23.5 ft SHALE, gray	20 22 24 27 27 29	The second of th	72 96 PASSIN	11 18 16 10		92 92	73 86	21SPTal 24 25	49	NO.NO. SIGLINN SIGLINN LI #6 LI #6 VX 40 A LI #6 A LI #6 A A A A A A A A A A A A A
COMPLE DATE: 6/	TION DEPTH: 60.0 Feet 26/21				SEE	PAG	DRII	t.): 25 LLIN	i G (ft.	.): 25	VATER (FT): N/A

BORING B7

		BC	DRING B7	loje	,01	110	. 00001	00.	•		LO	CATI	ON: Lat: 30.4868	°, Long: -97	6727	0
DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2.0 4.0 PL WC 2.0 4.0 PL UC 4.0 4.0 PL UC 4.0 4.0 4.0	UNC CMP (TSF) 6.0 LL 60	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
 35-			- continuous recovery and excellent quality from 25 ft to 40 ft					100	90					>>	• 126	133
 - 40-								100	100			3 8		>>	52	122
 -45-			- continuous recovery and good quality from 40 ft to 45 ft					100	82			3				
			- competent recovery and very poor quality from 45 ft to 50 ft					43	18			4				
SAN ANTONIO RBENNETT GW.GDT 7/30/2/		_	- continuous recovery and fair quality from 50 ft to 55 ft					100	65			3				
GEO TESTS 00 - SAN ANTON			- continuous recovery and excellent quality from 25 ft to 40 ft						100				WATED			

COMPLETION DEPTH: 60.0 Feet

DATE: 6/26/21 Intertek

DEPTH TO GROUND WATER SEEPAGE (ft.): 25 END OF DRILLING (ft.): 25

BORING B8

В	ORING B8								LO	CATI	ON: Lat: 30.4868°, Long: -97.6720°
DEPTH, FT. SYMBOL SAMPLES WATER	SOIL DESCRIPTION Elevation:	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	09 00 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	FAT CLAY (CH), stiff to hard, brown	19 22 23	3	87				68	20	48	* 9 • • • • • • • • • • • • • • • • • •
	CLAYEY GRAVEL with SAND (GC), loose, gray	6			7						
	FAT CLAY (CH), hard, light brown	28 27 23 38	0	97	50/3			83	25	58	*
	ION DEPTH: 25.0 Feet 26/21				DEP ⁻ SEE	TH PAG	TO SE (ff	GR(OUN	ND V	VATER

DATE: 6/26/21 Intertek

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DEPTH TO GROUND WATER SEEPAGE (ft.): 18 END OF DRILLING (ft.): 18 DELAYED WATER LEVEL (FT): N/A

BORING B9

LOCATION: Lat: 30.4870°, Long: -97.6714°

		D	JRING BY								LO	CATI	ON: Lat: 3	0.4870°	, Long: -97.	6714°	
ОЕРТН, FT.	BOL	WATER	SOIL DESCRIPTION	MOISTURE CONTENT	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN	(TSF) • 4.0	, Long: -97.	F. COMP. SF)	RY WT. U FT)
DEPT	SYMBOL	WA	Elevation:	MOIS	% RETA	% PASSI	SPT	% R	%R	LIQUID	PLASTI	PLAST IND	PL 20	WC X 40	LL 60	UNCONF (TS	UNIT DI
	p. 4:		3 inches Asphalt, 3 inches Base	_		-01											
			FAT CLAY (CH), firm to hard, brown	22			11						*				
				20	1	90	8			65	23	42	*				
_ 5 _				10			7					,	×				
				19			17						*				
				21			14					1	*				
10													1				
												1					
 15				25	0	93	14			69	25	44	*		•		
												1					
		/		23			62					į	*				
20												5				i i	
												l					
 25				22			11					1	 				
													,	\			
			SHALE, very hard to moderately hard,	_										<u>'</u>			
			gray	36			50/4							*			
	COME	PLET	ION DEPTH: 40.0 Feet				DED.	TH T	TO	GRO	AL IC	ID V	VATER				- /

COMPLETION DEPTH: 40.0 Feet

DATE: 7/8/21 Intertek

BORING B9

LOCATION: Lat: 30.4870°, Long: -97.6714°

			OTTITO BO				T	r			LU	CATI	UN. La	1. 30.40	oru , LC	ng97.		
DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP. (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND 2. P	.0 4	1.0 6	CMP (TSF) 3.0 L L 4 60	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
					%	%				_	집			U 2	+0 (5	٦
			SHALE, very hard to moderately hard, gray									7	/	<i>[</i>				
 35		X		8			50/3					,	X					
 		X		13			50/0.5						×					
 45																	e)	
-50-												5					\$	
700 - 200 -																		
OND																		
00 - SAN																		
																	4	
14		IPLE	ION DEPTH: 40.0 Feet										VATER	₹				

DATE: 7/8/21 Intertek

ps

DEPTH TO GROUND WATER
SEEPAGE (ft.): None Encountered
END OF DRILLING (ft.): None Encountered

BORING B10

	BC	PRING B10	. 0,0			. 00001				LO	CATI	ON: Lat: 30.4875°, Long: -97.6715°
DEPTH, FT. SYMBOL	WATER	SOIL DESCRIPTION Elevation:	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TSF) UNC CMP (TSF) 2.0 4.0 6.0 OO
		SANDY LEAN CLAY (CL), stiff to hard, brown	24 16 11 28	17	63	14 50/5.5 13			43	18	26	
		FAT CLAY (CH), stiff to hard, light brown to gray	26	0	90	15			67	24	43	3.6 121
-20-			23	0	93				60	22	38	A • • 6.3 111
-25 	¥	- gray at 28.5 ft				27						
DATE Intertek	: 7/	ON DEPTH: 55.0 Feet 2/21				SEE	PAC	DRI	i.): 28 LLIN	B G (ft.): 28	VATER 3 (FT): N/A

BORING B10

LOCATION: Lat: 30 4875° Long: -97 6715°

	BC	DRING B10								LO	CATI	ON: Lat: 30.4875°, Long: -97.6715°	
DEPTH, FT. SYMBOL	SAMPLES	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TSF) UNC CMP (TSF) UNC	UNIT DRY WT. (LB/CU FT)
		CLAY-SHALE (CH), hard, gray	21	0	6	50/2						*	
-40	-	SHALE, gray - continuous recovery and fair quality from 35 ft to 40 ft					100	73			3	>> • 100 1	120
-45-	-	- continuous recovery and good quality from 40 ft to 45 ft					94	87			3		
-50-	=	- fairly continuous recovery and good					77	70			6	>>• 14 1	125
55		quality from 50 ft to 55 ft					82	63				7 1	127
-55											8		
		ION DEPTH: 55.0 Feet 12/21	1			DEP SEE	TH	TO SE (ft	GR(DUN	ND V	VATER	

END OF DRILLING (ft.): 28

BORING B11

LOCATION: Lat: 30.4881°, Long: -97.6718°

E	BORING B11								LO	CATI	ON: Lat: 30.4881°, Long: -97.6718°
DEPTH, FT. SYMBOL SAMPLES	Elevation:	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	OHAND PEN (TSF) UNC COMP (TSF) UNC COMP (TSF) UNIT DRY WT.
	CLAY EY GRAVEL with SAND (GC), very loose to medium dense, brown	17 8 11 9	39	30	8 5 13			35	18	17	* • • • • • • • • • • • • • • • • • • •
-10	MARL, hard, light brown	10			50/4						X X
	FAT CLAY (CH), stiff to very stiff, light brown	30	0	99	10			82	25	57	** ** ** ** ** ** ** ** ** **
25	ETION DEPTH: 25.0 Feet				DEPT	ГН .	ТО	GRO	JUN	ND V	VATER

DATE: 7/9/21 Intertek

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BORING B12

	BC	RING B12 '	TOje	<i>-</i> 01	110	. 00001	50			LO	CATI	ON: Lat: 30.4886°, Long: -97.6720°
DEPTH, FT.	SAMPLES	SOIL DESCRIPTION Elevation:	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	OHAND PEN (TSF)
 -5-		SANDY LEAN CLAY (CL), stiff to hard, light brown	20 22 12	23		50/3			50	21	29	* • • • • • • • • • • • • • • • • • • •
-15-	X Z	FAT CLAY (CH), stiff, gray	31 30 31	0	92	11 11 8			80	23	57	*
			29			14						*
CO	ΓΕ: 7/7	ION DEPTH: 25.0 Feet 7/21				DEPT SEE	TH T	TO SE (ft	GR(OUN '.5	/C VD V	VATER

END OF DRILLING (ft.): DELAYED WATER LEVEL (FT): N/A

Switch Data Centers Dell Way - Round Rock, TX 78664

Project No. 03031360 **BORING B13** LOCATION: Lat: 30.4884°, Long: -97.6727° PASSING #200 RETAINED #4 ○ HAND PEN (TSF) ■ UNC CMP (TSF) PLASTIC LIMIT UNCONF. COMP. (TSF) LIQUID LIMIT PLASTICITY INDEX UNIT DRY WT. (LB/CU FT) MOISTURE DEPTH, FT. 2.0 6.0 SAMPLES 4.0 SPT (N) & TCP (T) VALUES WATER SYMBOL % REC %RQD SOIL DESCRIPTION WC LL **X** 60 20 Elevation: % LEAN CLAY with SAND (CL), very stiff to hard, light brown 22 2 70 44 18 26 3 50/4 FAT CLAY (CH), stiff to very stiff, light brown 29 32 32 9 31 0 95 9 87 26 61 CLAY EY SAND (SC), medium dense to very dense, gray 17 14 32 5 40 50/5 25 59 84 -25-

COMPLETION DEPTH: 25.0 Feet

DATE: 6/14/21

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DEPTH TO GROUND WATER SEEPAGE (ft.): 4 END OF DRILLING (ft.): 4 DELAYED WATER LEVEL (FT): N/A

Switch Data Centers Dell Way - Round Rock, TX 78664

Project No. 03031360 **BORING B14** LOCATION: Lat: 30.4879°, Long: -97.6725° PASSING #200 **RETAINED #4** ○ HAND PEN (TSF) ■ UNC CMP (TSF) PLASTIC LIMIT UNCONF. COMP. (TSF) UNIT DRY WT. (LB/CU FT) LIQUID LIMIT PLASTICITY INDEX DEPTH, FT. MOISTURE 2.0 6.0 SAMPLES 4.0 SPT (N) & TCP (T) VALUES WATER SYMBOL % REC %RQD SOIL DESCRIPTION LL WC **X** 60 20 Elevation: % FAT CLAY with SAND (CH), very stiff to hard, light brown 15 20 1 81 19 34 53 LEAN CLAY with SAND (CL), very stiff 17 to hard, light brown 15 18 0 71 17 25 26 42 31 46 22 16 26 2 72 50/4 39 17 22 39 8 -25 FAT CLAY (CH), stiff to hard, gray 30 50/4

COMPLETION DEPTH: 40.0 Feet

DATE: 6/14/21

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BORING B14

LOCATION: Lat: 30.4879°, Long: -97.6725°

BORING B14								LO	CATI	ON: Lat: 30	.4879°,	Long: -97.6	6725°	·
SYMBOL SAMPLES WATER WATER SAMPLES WATER NATER	MOISTURE CONTENT	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (T 2.0	4.0	NC CMP (TSF) 6.0	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
		% RETA	% PASS	SPT TCI VAL	1 %	%F	LIQUII	PLAST	PLAS	PL 20	WC X 40	60	UNCON (T	UNIT D (LB/C
FAT CLAY (CH), stiff to	25			14						*				
 -40- 	24								,	****			ek	
200													is.	
COMPLETION DEPTH: 40.0 Feet				DEP	ГН Т	ТО	GRO	NUC	1D V	VATER			49	

DATE: 6/14/21 Intertek

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DEPTH TO GROUND WATER SEEPAGE (ft.): None Encountered

END OF DRILLING (ft.): None Encountered

BORING B15

LOCATION: Lat: 30.4873°, Long: -97.6722°

		BC	IRING BIS								LO	CATI	ON: Lat: 30.4873°, Long: -97.6722°
ОЕРТН, FT.	SYMBOL	WATER	SOIL DESCRIPTION	MOISTURE	RETAINED #4	PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TSF) UNC CMP (TSF) UNC
		מ	Elevation:	ΣO	% R	% P/	0)			LIC	PL/	Ч	20 40 60 SN
			CLAYEY GRAVEL with SAND (GC), medium dense, light brown	14	54	29				47	17	30	*-
			MARININA	19			34						*
			MARL, hard, light brown	9			50/5					d d	*
		X	- weathered limestone layer from 6 ft to 7.5 ft	10			50/4						*
 10				9			50/4					d d	*
 15			CLAY-SHALE (CH), hard, gray	17	0	84	50/5.5			57	20	37	*
				15			80						*
T GW.GDT 7/33/2													
				16			50/5.5						*
200 / 200 /													
	COM	DI ET	ION DEPTH: 25.0 Feet				DED	- LD -	TO	CBC	71 16	עם ע	VATER
		E: 6/1					SEE	PAG	E (ft	:.): No	one E	Encou	untered

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intertek.

BORING D1

LOCATION: Lat: 30.4865°, Long: -97.6713°

		D	DRING DI								LO	CATI	ON: Lat: 30.4	865°, Lo	ng: -97.	6713	0
ОЕРТН, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	MOISTURE	% RETAINED #4	% PASSING #200	SPT (N) & TCP (T) VALUES	% REC	%RQD	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	O HAND PEN (TS)	4.0 6	CMP (TSF)	UNCONF. COMP. (TSF)	UNIT DRY WT. (LB/CU FT)
DEPT		WA	Elevation:	MOIS	% RETA	% PASS	SPT TCI VAL	1 %	₩ -	LIQUII	PLAST	PLAS	PL \ 20	X	_L ⊕ 50 	UNCON (T	UNIT D (LB/C
		X	2 inches Asphalt, 8 inches Base FAT CLAY (CH), stiff to hard, brown	8			14						×				
-0				29	1	92				73	21	53	+ *	Q			
				22								ļ	/ *	\\ \\ \ \\			
				21								3	*				
				25								1) 				
 -10-																	
				22			37						 				
-15- 																	
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		,		24									*	φ			
DT 7/39/21												3					
METT GW.G												2					
	-																
TESTS 00																	
	СОМ		ION DEPTH: 20.0 Feet				DEP	ΓΗ :	TO	GRO	OUN	ID V	VATER	 			

DATE: 6/26/21 Intertek



KEY TO TERMS AND SYMBOLS USED ON LOGS

ROCK CLASSIFICATION

RECOVERY

DESCRIPTION OF RECOVERY	% CORE RECOVERY
Incompetent	< 40
Competent	40 TO 70
Fairly Continuous	70 TO 90
Continuous	90 TO 100

ROCK QUALITY DESIGNATION (RQD)

DESCRIPTION OF ROCK QUALITY	RQD
Very Poor (VPo)	0 TO 25
Poor (Po)	25 TO 50
Fair (F)	50 TO 75
Good (Gd)	75 TO 90
Excellent (ExInt)	90 TO 100

CONSISTENCY OF COHESIVE SOILS

CONSISTENCY	N-VALUE (Blows/Foot)	SHEAR STRENGTH (tsf)	HAND PEN VALUE (tsf)
Very Soft	0 TO 2	0 TO 0.125	0 TO 0.25
Soft	2 TO 4	0.125 TO 0.25	0.25 TO 0.5
Firm	4 TO 8	0.25 TO 0.5	0.5 TO 1.0
Stiff	8 TO 15	0.5 TO 1.0	1.0 TO 2.0
Very Stiff	15 TO 30	1.0 TO 2.0	2.0 TO 4.0
Hard	>30	>2.0 OR 2.0+	>4.0 OR 4.0+

SOIL DENSITY OR CONSISTENCY

DENSITY (GRANULAR)	CONSISTENCY (COHESIVE)	THD (BLOWS/FT)	FIELD IDENTIFICATION
Very Loose (VLo)	Very Soft (VSo)	0 TO 8	Core (height twice diameter) sags under own weight
Loose (Lo)	Soft (So)	8 TO 20	Core can be pinched or imprinted easily with finger
Slightly Compact (SICmpt)	Stiff (St)	20 TO 40	Core can be imprinted with considerable pressure
Compact (Cmpt)	Very Stiff (VSt)	40 TO 80	Core can only be imprinted slightly with fingers
Dense (De)	Hard (H)	80 TO 5"/100	Core cannot be imprinted with fingers but can be penetrated with pencil
Very Dense (VDe)	Very Hard (VH)	5"/100 to 0"/100	Core cannot be penetrated with pencil

DEGREE OF PLASTICITY OF COHESIVE SOILS

DEGREE OF PLASTICITY	PLASTICITY INDEX (PI)	SWELL POTENTIAL		
None or Slight	0 to 4	None		
Low	4 to 20	Low		
Medium	20 lu 30	Medium		
High	30 to 40	High		
Very High	>40	Very High		

BEDROCK HARDNESS

MORHS' SCALE	CHARACTERISTICS	EXAMPLES		APPROXIMATE THD PEN TEST	
5.5 to 10	Rock will scratch knife	Sandstone, Chert, Schist, Granite, Gneiss, some Limestone	Very Hard (VH)	0" to 2"/100	
3 to 5.5	Rock can be scratched with knife blade	Siltstone, Shale, Iron Deposits, most Limestone	Hard (H)	1" to 5"/100	
1 to 3	Rock can be scratched with fingernail	Gypsum, Calcite, Evaporites, Chalk, some Shale	Soft (So)	4" to 6"/100	

MOISTURE CONDITION OF COHESIVE SOILS

DESCRIPTION	CONDITION			
Absence of moisture, dusty, dry to touch	DRY			
Damp but no visible water	MOIST			
Visible free water	WET			

RELATIVE DENSITY FOR GRANULAR SOILS

APPARENT DESNITY	SPT (BLOWS/FT)	CALIFORNIA MODIFIED CA. SAMPLER SMAPLER (BLOWS/FT) (BLOWS/FT)		RELATIVE DENSITY (%)	
Very Loose	0 to 4	0 to 5	0 to 4	0 to 15	
Loose	4 to 10	5 to 15	5 to 12	15 to 35	
Medium Dense	10 to 30	15 to 40	12 to 35	35 to 65	
Dense	30 to 50	40 to 70	35 to 60	65 to 85	
Very Dense	>50	>70	>60	85 to 100	

SAMPLER TYPES

AUGER

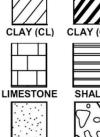
SAMPLE

SOIL TYPES









SAND

ASPHALT



SANDSTONE SHALE







CONCRETE

ABBREVIATIONS

PL - Plastic Limit

Q_P - Hand Penetrometer

LL - Liquid Limit WC - Percent Moisture

Qu - Unconfined Compression Test UU - Unconsolidated Undrained Triaxial

▼ WATER SEEPAGE

Note: Plot Indicates Shear Strength as Obtained By Above Tests

■ WATER LEVEL AT END OF DRILLING

U.S. STANDARD SIEVE SIZE(S)

CLASSIFICATION OF GRANULAR SOILS

2	6"	3" 3	/4"	4 10	40		200		
BOULDERS COBBLES	GRAVEL GRAVEL	SAND		SULT OR CLAY	SILT OR CLAY	CLAY			
	COBBLES	COARSE	FINE	COARSE	MEDIUM	FINE	SILT OR CLAT	SILT OR CLAT	CLAT
15	52 70	6.2 1	9.1 4.	76 2.	0 0.42	0	0.074		0.002

