Hays CISD Impact Center Water Pollution Abatement Plan



Transportation | Water Resources | Land Development | Surveying | Environmental

Hays CISD Impact Center Water Pollution Abatement Plan





January 16, 2025

Ms. Robert Sadlier Texas Commission on Environmental Quality (TCEQ) Region 11 12100 Park Circle, Bldg A, Rm 179 Austin, Texas 78753

Re: Hays CISD Impact Center Water Pollution Abatement Plan

Dear Ms. Reyes:

Please find attached one (1) original, one (1) digital, and one (1) copy of the Hays CISD Impact Center Water Pollution Abatement Plan. This Water Pollution Abatement Plan has been prepared in accordance with the regulations of the Texas Administrative Code (30 TAC 213) and current policies for development over the Edwards Aquifer Recharge Zone.

This Water Pollution Abatement Plan applies to an approximate 8.87 acre site as identified by the project limits. Please review the plan information for the items it is intended to address. If acceptable, please provide a written approval of the plan in order that construction may begin at the earliest opportunity.

Appropriate review fees (\$5000) and fee application are included. If you have questions or require additional information, please do not hesitate to contact me at your earliest convenience.

Sincerely, Pape-Dawson Consulting Engineers, LLC

Stacy Veichn +

Stacey Weichert, P.E. Vice President

Attachments

H:\Projects\514\59\02\Word\Reports\WPAP\241119a1.docx

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 <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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 N	ame: Hays CI	SD Imp	2. Regulated Entity No.:						
3. Customer Name: ^H	lays CISD				4. Customer No.: CN601392384				
5. Project Type: (Please circle/check one)	New	Modif	icatior	1	Exter	ision	Exception		
6. Plan Type: (Please circle/check one)	WPAP)CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures	
7. Land Use: (Please circle/check one)	Residential	Non-residential				8. Sit	e (acres):	8.87 ac	
9. Application Fee:	\$5000	10. P	ermai	nent l	BMP(s	s):	1 Batch Detention, 1 VFS		
11. SCS (Linear Ft.):	NA	12. A	ST/US	5T (N	o. Tar	nks):	NA		
13. County:	Hays	14. W	aters	hed:			Onion C	reek-Colorado River	

Application Distribution

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

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

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

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

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

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

 Stacey Weichert, P.E.

 Print Name of Customer/Authorized Agent

 Jacque eichen

 Signature of Customer/Authorized Agent

 Date

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

GENERAL INFORMATION FORM (TCEQ-0587)

General Information Form

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Stacey Weichert, P.E.

Date: <u>11/27/2024</u> Signature of Customer/Agent

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Project Information

- 1. Regulated Entity Name: Hays CISD Impact Center
- 2. County: Hays
- 3. Stream Basin: Onion Creek
- 4. Groundwater Conservation District (If applicable): Barton Springs/Edwards Aquifer
- 5. Edwards Aquifer Zone:



6. Plan Type:

	AST
SCS	🗌 UST
Modification	Exception Request

7. Customer (Applicant):

Contact Person: <u>Max Cleaver</u> Entity: <u>Hays ISD</u> Mailing Address: <u>21003 IH-35</u> City, State: <u>Kyle. TX</u> Telephone: <u>(512) 268-2141</u> Email Address: <u>Max.Cleaver@hayscisd.net</u>

Zip: <u>78640</u> FAX: ____

8. Agent/Representative (If any):

Contact Person: Stacey Weichert, P.E.Entity: Pape-Dawson Engineers, Inc.Mailing Address: 2000 NW Loop 410City, State: San Antonio, TexasTelephone: (210) 375-9000Email Address: sweichert@pape-dawson.com

Zip: <u>78213</u> FAX: <u>(210) 375-9000</u>

9. Project Location:

The project site is located inside the city limits of _____.

The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of <u>City of Buda</u>.

- The project site is not located within any city's limits or ETJ.
- 10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

4125 FM 967, Buda, TX 78610

- 11. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
- 12. Attachment B USGS / Edwards Recharge Zone Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

Project site boundaries.

USGS Quadrangle Name(s).

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

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

- 13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
 - Survey staking will be completed by this date: <u>When advised of TCEQ inspection.</u>

- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
 - Area of the site
 - Offsite areas
 - \times Impervious cover \times Permanent BMP(s)
 - \times Proposed site use
 - Site history
 - $\overline{\times}$ Previous development
 - \square Area(s) to be demolished
- 15. Existing project site conditions are noted below:
 - Existing commercial site
 - Existing industrial site
 - Existing residential site
 - Existing paved and/or unpaved roads
 - Undeveloped (Cleared)
 - Undeveloped (Undisturbed/Uncleared)
 - Other: <u>School</u>

Prohibited Activities

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

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

Administrative Information

- 18. The fee for the plan(s) is based on:
 - For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

 Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

- 20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 21. No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

ATTACHMENT A

HAYS CISD IMPACT CENTER Water Pollution Abatement Plan





Pape-Dawson Engineers, Inc. Date: Nov 25, 2024, 2:00pm User ID: JKing File: H: \Projects\514\59\02\301 Construction Documents\Impact Center\Exhibits\WPAP\RM5145902.dwg ATTACHMENT A Road Map

ATTACHMENT B

HAYS CISD IMPACT CENTER Water Pollution Abatement Plan





USGS/EDWARDS RECHARGE ZONE MAP

ATTACHMENT B

ATTACHMENT C

Hays CISD Impact Center Water Pollution Abatement Plan

Attachment C – Project Description

Hays CISD Impact Center Water Pollution Abatement Plan (WPAP) is a developed site, build pre-1986, that proposes the reconstruction of a parking lot, sidewalks, portable buildings, drainage, and utilities. The site is an existing school built on 8.87 acres within the ETJ of the City of Buda, in Hays County, Texas. The site is located at 4125 FM 967, Buda, TX 78610. The site is bound by FM 967 and Beacon Hill Rd. The site lies within the Onion Creek - Colorado River watershed and does not contain 100-year floodplain. There were no naturally occurring sensitive geological features identified in the Geologic Assessment.

This WPAP proposes additional clearing, grading, excavation, paving, installation of utilities and drainage improvements, and construction of one (1) batch detention basins. The proposed Permanent Best Management Practices (PBMPs) for stormwater treatment is one (1) batch detention basin and one (1) fifteen-foot (15') engineered vegetative strip which is designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site. The original construction of the site included approximately 1.61 acres of impervious cover, the proposed development increases that number to 2.92 acres. Please see the Treatment Summary table attached with this application. All PBMPs have been designed in accordance with the Texas Commission on Environmental Quality's (TCEQ) Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site.

Potable water service is to be provided by the City of Buda. The site has an existing septic tank and does not connect to a sewer collection system.



GEOLOGIC ASSESSMENT FORM (TCEQ-0585)

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: Henry E. Stultz III, P.G.	Telepho	ne: 210-375-9000	
Date: December 10, 2024	Fax:	210-375-9090	

Representing: Pape-Dawson Engineers, Inc., TBPG registration number 50351

Signature of Geologist:

Regulated Entity Name: <u>Impact Center HS</u>

Project Information

- 1. Date(s) Geologic Assessment was performed: December 6, 2024
- 2. Type of Project:
 - WPAP SCS

AST
UST

3. Location of Project:



- Transition Zone
-] Contributing Zone within the Transition Zone

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

Soil Name	Group*	Thickness(feet)
Crawford, stony and Bexar soils, 0-5% slopes (Cb)	D	3-4
Eckrant very cobbly clay, 5-15% slopes (TaC)	D	1-2

Table 1	1 - Soil	Units,	Infiltration
Charac	teristic	s and	Thickness

* Soil Group Definitions (Abbreviated)

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: 1" = <u>50'</u> Site Geologic Map Scale: 1" = <u>50'</u> Site Soils Map Scale (if more than 1 soil type): 1" = <u>200'</u>

9. Method of collecting positional data:

🔀 Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection:_____

- 10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. Surface geologic units are shown and labeled on the Site Geologic Map.

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

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

- 13. The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
 - There are _____(#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
 -] The wells are not in use and have been properly abandoned.
 -] The wells are not in use and will be properly abandoned.
 - The wells are in use and comply with 16 TAC Chapter 76.
 - \square There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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

ATTACHMENT A Geologic Assessment Table

GEOLO	GIC ASSES	SMENT T	ABLE		and the second			F	ROJECT	NAM	E: Imp	act Cente	er HS							
LOCATION						FE.	ATUR	ECHARA	CTERI	STICS				EVA	ALUA	TION	PH	YSICAL	SETTING	
1A	1B *	1C*	2A	2B	3	101 181	4		5	5A	6	7	8A	8B	9		10	1	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	SITIVITY	CATCHMI (AC	ENT AREA RES)	TOPOGRAPHY
		Notes and the second				X	Y	Z		10					Fight States	<40	>40	<1.6	<u>>1.6</u>	
S-1	30.09478	-97.89076	MB	30	Kau								F,C	5	35	35		X		Hillside
S-2	30.09530	-97.88907	MB	30	Kau			9)) <u>6</u>					F,C	9	39	39		X		Drainage

** DATUM: NAD 83



2A TYPE	TYPE	2B POINTS		
с	Cave	30	N	None, expo
SC	Solution cavity	20	C	Coarse - co
SF	Solution-enlarged fracture(s)	20	0	Loose or se
F	Fault	20	F	Fines, com
0	Other natural bedrock features	5	V	Vegetation
MB	Manmade feature in bedrock	30	FS	Flowstone,
SW	Swallow hole	30	×	Other mate
SH	Sinkhole	20	1.1	
CD	Non-karst closed depression	5		
Z	Zone, clustered or aligned features	30	Cliff	Hilltop, Hills

8A INFILLING

osed bedrock

obbles, breakdown, sand, gravel

oft mud or soil, organics, leaves, sticks, dark colors pacted clay-rich sediment, soil profile, gray or red colors

Give details in narrative description

cements, cave deposits

erials

12 TOPOGRAPHY ide, Drainage, Floodplain, Streambed

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

2A

Date 12/10/24

Sheet 1 of 1 ATTACHMENT A

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

ATTACHMENT B Stratigraphic Column

IMPACT CENTER HS Geologic Assessment (TCEQ-0585)

Period	Epoch	Group	Formation	Member	Thickness	Lithology	Hydro- logic Unit	Hydro- stratigraphic Unit	Hydrologic Function	Porosity	Cavern Development
		Austin			130–160	Massive, chalky, locally marly, mudstone; intervals of nodular (bioturbated) wackestone; commonly contains iron nodules; <i>Gryphaea aucella , Inoceramus</i> sp.; contains various ammounts of volcanoclastics and terrigenous clastics; fractures often contain void-filling calcite, sometimes in the form of dogtooth spar	Austin Chalk		Confining	IP, MO, FR, BP, CH, CV	Caves related to structure
	SL	Eagle Ford			20–40	Brown, flaggy, sandy shale and argillaceous limestone; iron nodules; <i>Inoceramus</i> sp., shark teeth, and fossil fragments; some freshly fractured flagstone emits a petroliferous odor	ards aquifer	-	Confining	IP, FR, BP	None
	Late Cretaceo	ta	Buda Limestone		40–50	Buff to light gray, dense nodular mudstone and wackestone containing calcite-filled veins and bluish dendrites; porcelaneous limestone that weathers from a smooth gray to grayish white; nodular surface has a conchoidal fracture; commonly contains iron nodules, iron staining, and shell frags	nfining unit to the Edw	-	Confining	FR	Minor surface karst
S		Washi	Del Rio Clay		40–50	Fossiliferous blue-green to yellow-brown clay with thin beds of packstone; contains iron nodules; <i>llymatogyra</i> <i>arietina</i>	Upper co		Confining	None	None
Cretaceou			George- town		20–30	Reddish-brown, gray to light tan, shaley mudstone and wackestone; commonly contains black dendrites, iron nodules, and iron staining; often fossiliferous with Plesioturrilites brazoensis, Waconella wacoensis common		I	Confining	мо	None
				Cyclic and marine, undivided	80–90	Pelletal limestone; ranges from chalk to mudstone and miliolid grainstone; thin to massive beds; some crossbedding evident; a packstone containing large caprinids is present near contact with the overlying Georgetown Formations; chert is common as beds and large nodules	Aquifer	11	Aquifer	MO, BU, VUG, BP, FR, CV	Many subsurface; might be associated with earlier karst development
Early Cretaceous	Early Cretaceous	Edwards	Person	Leached and collapsed, undivided	70–90	Hard, dense, recrystallized limestone;mudstone, wackestone, packstone, and grainstone; contains chert as beds and large nodules; heavily bioturbated with iron- stained beds; often stromatolitic; <i>Toucasia</i> sp. Often found above contact with the underlying regional dense member; <i>Montastrea roemeriana</i> and oysters rare	Edwards	Ш	Aquifer	BU, VUG, FR, BP, BR, CV	Extensive lateral development; large rooms
				Regional dense	20–24	Dense, shaly limestone; oyster shell mudstone and iron wackestone; wispy iron staining; chert nodules rarer than in the rest of the chert-bearing Edwards Group		IV	Confining	FR, CV	Very few; only vertical fracture enlargement

Attachment B – Stratigraphic Column

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

ATTACHMENT C Site Geology

IMPACT CENTER HS Geologic Assessment

Attachment C – Site Geology

SUMMARY

The Impact Center HS site is located at the southeast corner of FM 967 and Beacon Hill Road in Hays County, Texas.

Based on the results of the field survey conducted in accordance with *Instructions for Geologists for Geologic Assessments in the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585 Instructions),* no naturally occurring sensitive features were identified on site. No springs or streams were identified on site. The overall potential for fluid migration to the Edwards Aquifer for the site is low.

SITE GEOLOGY

As observed through field evidence, the geologic formation which outcrops at the surface within the subject site is the Austin Chalk (Kau). The Kau is comprised of limestone, argillaceous chalky limestone and calcareous shale, and is locally bentonitic. Karst development within the Kau is commonly related to geologic structure within the formation.

The predominant trend of faults in the vicinity of the site is approximately N41°E, based on faults identified during the previous mapping of the area.

FEATURE DESCRIPTIONS:

A description of the features observed onsite is provided below:

Feature S-1

Feature S-1 is a septic tank. Due to the non-karst origin, the probability for rapid infiltration is low.

Feature S-2

Feature S-2 is an existing storm drain line that is located beneath concrete and pavement. The storm drain line has been trenched through bedrock and backfilled with a mix of fine and course fill material that may be more permeable than surrounding undisturbed areas. Therefore, the probability of rapid infiltration is low.



IMPACT CENTER HS Geologic Assessment

REFERENCES

Clark, A.K., Pedraza, D.E., and Morris, R.R., 2018, Geologic framework and hydrostratigraphy of the Edwards and Trinity aquifers within Hays County, Texas, U.S. Geological Survey, Scientific Investigations Map SIM-3418, 1:82,305.

Nationwide Environmental Title Research, LLC. Historical Aerials, HistoricAerials.com. https://www.historicaerials.com/viewer, December 6, 2024.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. http://websoilsurvey.sc.egov.usda.gov/, December 6, 2024.

Stein, W.G., and Ozuna, G.B., 1995, Geologic framework and hydrogeologic characteristics of the Edwards Aquifer recharge zone, Bexar County, Texas: U.S. Geological Survey Water-Resources Investigations Report 95–4030, 8 p.

Texas Water Development Board, Wells in TWDB Groundwater Database Viewer, https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer, December 6, 2024.

U.S. Geological Survey, National Water Information System: Mapper, https://maps.waterdata.usgs.gov/mapper/index.html, December 6, 2024.



ATTACHMENT D Site Geologic Map(s)



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WATER POLLUTION ABATEMENT PLAN APPLICATION FORM (TCEQ-0584)

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Stacey Weichert

Date: <u>3/4/25</u>

Signature of Customer Agent

Stacy Veichn +

Regulated Entity Name: Hays CISD Impact Center

Regulated Entity Information

- 1. The type of project is:
 -] Residential: Number of Lots:____
 - Residential: Number of Living Unit Equivalents:
 - Commercial
 - Industrial
 - 🔀 Other:<u>School</u>
- 2. Total site acreage (size of property): 8.87
- 3. Estimated projected population: N/A
- 4. The amount and type of impervious cover expected after construction are shown below:

Note: Site includes 1.61 acres of impervious cover that was built prior to 1986. While the site has a total of 2.98 acres of impervious cover, only 1.37 is additional impervious cover.

able 1 - Impervious Cover Table			
Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops		÷ 43,560 =	
Parking		÷ 43,560 =	
Other paved surfaces		÷ 43,560 =	
Total Impervious Cover	129,900	÷ 43,560 =	2.98

Total Impervious Cover 2.98 ÷ Total Acreage 8.87 X 100 = 33.6% Impervious Cover

- 5. Attachment A Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
- 6. Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

TXDOT road project.

County road or roads built to county specifications.

City thoroughfare or roads to be dedicated to a municipality.

Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

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Concrete
Asphaltic concrete pavement
Other:
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9. Length of Right of Way (R.O.W.): _____ feet.

Width of R.O.W.: _____ feet. L x W = _____ Ft² \div 43,560 Ft²/Acre = _____ acres.

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.L x W = ____ $Ft^2 \div 43,560 Ft^2/Acre = ____ acres.Pavement area _____ acres \div R.O.W. area _____ acres x 100 = ____% impervious cover.$

11. A rest stop will be included in this project.

A rest stop will not be included in this project.
12. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. Attachment B - Volume and Character of Stormwater. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

% Domestic	Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day	

15. Wastewater will be disposed of by:

\square	On-Site Sewage F	acility (OSSF/	Septic Tank):
	00		

Attachment C - Suitability Letter from Authorized Agent. An on-site sewage facility
will be used to treat and dispose of the wastewater from this site. The appropriate
licensing authority's (authorized agent) written approval is attached. It states that
the land is suitable for the use of private sewage facilities and will meet or exceed
the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285
relating to On-site Sewage Facilities.

Existing septic tank

Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

Sewage Collection System (Sewer Lines):

- Private service laterals from the wastewater generating facilities will be connected to an existing SCS.
- Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

The SCS was previously submitted on_____.

-] The SCS was submitted with this application.
-] The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

Existing.
Proposed

16. All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

17. \square The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>30</u>'.

18. 100-year floodplain boundaries:

Some part(s) of the project site is located within the 100-year floodplain.	The floodplain
is shown and labeled.	

 \boxtimes 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): <u>DFIRM (Digital Flood Insurance Rate Map for Bexar County, Texas and Incorporated Areas)</u> Panel No. 0260F, Dated 09.02.2005

19. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

There are	(#) wells present on the project site and the locations are shown and
labeled. (Che	ck 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.

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

21. 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 D - Exception to the Required Geologic Assessment. A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. \square Areas of soil disturbance and areas which will not be disturbed.
- 24. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. \boxtimes Locations where soil stabilization practices are expected to occur.
- 26. Surface waters (including wetlands).

🖂 N/A

- 27. Locations where stormwater discharges to surface water or sensitive features are to occur.
 - There will be no discharges to surface water or sensitive features.
- 28. 🔀 Legal boundaries of the site are shown.

Administrative Information

- 29. 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.
- 30. Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

ATTACHMENT A

Attachment A – Factors Affecting Water Quality

Potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site during construction include:

- Soil erosion due to the clearing of the site;
- Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle drippings;
- Hydrocarbons from asphalt paving operations;
- Miscellaneous trash and litter from construction workers and material wrappings;
- Concrete truck washout.
- Potential overflow/spills from portable toilets

Potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site after development include:

- Oil, grease, fuel and hydraulic fluid contamination from vehicle drippings;
- Dirt and dust which may fall off vehicles; and
- Miscellaneous trash and litter.



ATTACHMENT B

Attachment B – Volume and Character of Stormwater

The runoff coefficient for the site changes from approximately 0.53 before development to 0.58 after development. Increase in runoff is being mitigated by a proposed detention basin. Values are based on the Rational Method using runoff coefficients per the City of Austin Unified Development Code.



TEMPORARY STORMWATER SECTION (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Stacey Weichert

Date: 3/4/25

Signature of Customer/Agent:

Stacy Verichit

Regulated Entity Name: Hays CISD Impact Center

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: <u>Constuction</u> <u>Staging Area</u>

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

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

TCEQ-0602 (Rev. 02-11-15)

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
 Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

- Fuels and hazardous substances will not be stored on the site.
- 2. Attachment A Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. Attachment B Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. Attachment C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Onion 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. X 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
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.
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.
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 used in combination with other erosion and sediment controls within each disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
 - 🛛 N/A
- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. 🖂 Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

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

Administrative Information

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

ATTACHMENT A

Attachment A – Spill Response Actions

In the event of an accidental leak or spill:

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

In the event of an accidental significant or hazardous spill:

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

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



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

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



ATTACHMENT B

Attachment B – Potential Sources of Contamination

Other potential sources of contamination during construction include:

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



ATTACHMENT C

Attachment C – Sequence of Major Activities

The sequence of major activities which disturb soil during construction on this site will be done in a single phase. This will disturb approximately 4.3 acres.



ATTACHMENT D

Attachment D – Temporary Best Management Practices and Measures

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

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

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

Site preparation, which is the initiation of all activity on the project, will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include: (1) erection of silt fences along the downgradient boundary of construction activities for temporary erosion and sedimentation controls, (2) installation of rock berms with silt fencing downgradient from areas of concentrated stormwater flow for temporary erosion control, (3) Installation of gravel bags and drain inlet protection at inlets and downgradient areas of construction activities for sediment control (4) installation of stabilized construction entrance/exit(s) to reduce the dispersion of sediment from the site, and (5) installation of construction staging area(s).

Prior to the initiation of construction, all previously installed control measures will be repaired or reestablished for their designed or intended purpose. This work, which is the remainder of all activity on the project, may also disturb additional soil. The construction contractor will be responsible for the installation of all remaining on-site control measures that includes installation of the concrete truck washout pit(s), as construction phasing warrants.

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

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

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



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

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



ATTACHMENT F

Attachment F – Structural Practices

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

- Erection of silt fences along the downgradient boundary of construction activities and rock berms with silt fence for secondary protection, as located on Exhibit 1 and illustrated in Exhibit 2.
- Installation of gravel bags and drain inlet protection at inlets and downgradient areas of construction activities, as located on Exhibit 1 and illustrated in Exhibit 2.
- Installation of stabilized construction entrance/exit(s) and construction staging area(s), as located on Exhibit 1, and illustrated on Exhibit 2.

The following structural measures will be installed at the initiation of construction activities or as appropriate based on the construction sequencing:

• Installation of concrete truck washout pit(s), as required and located on Exhibit 1 and illustrated on Exhibit 2.



ATTACHMENT G

<u>Attachment G – Drainage Area Map</u>

No more than ten (10) acres will be disturbed within a common drainage area at one time as construction of civil infrastructure (utilities, roads, drainage, etc.) will precede building construction. All TBMPs utilized are adequate for the drainage areas served.



ATTACHMENT I

Attachment I – Inspections

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

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

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



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

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

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

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

Inspector's	Name
-------------	------

Inspector's Signature

Date

PROJECT MILESTONE DATES

D · · ·		•.			
Date when	maior	site	grading	activities	begin:
Date milen		0.00	8	4001010100	~~~~

Construction Activity		Date
Installation of BMPs		
Dates when construction activities temporarily or perma	nently	cease on all or a portion of the project:
Construction Activity	, , ,	<u>Date</u>
Dates when stabilization measures are initiated:		
Stabilization Activity		<u>Date</u>
Removal of BMPs		
Removal of BMPs		

ATTACHMENT J

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

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

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



PERMANENT STORMWATER SECTION (TCEQ-0600)

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(Ii), (E), and (5), Effective June 1, 1999

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

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

Signature

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

Print Name of Customer/Agent: Stacey Weichert, P.E.

Date: 3/4/25 Signature of Customer Agent

Stacy Weichn +

Regulated Entity Name: Hays CISD Impact Center

Permanent Best Management Practices (BMPs)

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

1. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.



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

A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

- N/A
- 3. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

____ N/A

- 4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - The site will be used for low density single-family residential development and has 20% or less impervious cover.
 - The site will be used for low density single-family residential development but has more than 20% impervious cover.
 - The site will not be used for low density single-family residential development.
- 5. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - Attachment A 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
 - The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
 - The site will not be used for multi-family residential developments, schools, or small business sites.
- 6. Attachment B BMPs for Upgradient Stormwater.
| A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached. No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached. Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached. |
|---|
| 7. 🔀 Attachment C - BMPs for On-site Stormwater. |
| A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached. Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached. |
| 8. Attachment D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed. |
| ⊠ N/A |
| 9. X The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction. |
| The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed. Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached. |
| 10. Attachment F - Construction Plans. All construction plans and design calculations for
the proposed permanent BMP(s) and measures have been prepared by or under the
direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and
dated. The plans are attached and, if applicable include: |
| Design calculations (TSS removal calculations) TCEQ construction notes All geologic features All proposed structural BMP(s) plans and specifications |
| L N/A |

11. 🔀	Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
	 Prepared and certified by the engineer designing the permanent BMPs and measures Signed by the owner or responsible party Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
	A discussion of record keeping procedures
	N/A
12.	Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
\ge	N/A
13.	Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the

creation of stronger flows and in-stream velocities, and other in-stream effects caused

by the regulated activity, which increase erosion that results in water quality

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after

construction is complete. 14. 🖂 The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

N/A

degradation.

 \square N/A

15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

N/A

ATTACHMENT C

<u>Attachment C – BMPs for On-Site Stormwater</u>

The proposed Permanent Best Management Practices (PBMPs) for stormwater treatment is one (1) batch detention basins and one (1) fifteen-foot (15') engineered vegetative filter strip which are designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 80% of the increase in Total Suspended Solids (TSS) from the site.



ATTACHMENT F

Attachment F – Construction Plans

Please refer to the Exhibits Section of this application for the Water Pollution Abatement Site Plans.



ATTACHMENT G

Attachment G

PERMANENT POLLUTION ABATEMENT MEASURES MAINTENANCE SCHEDULE AND MAINTENANCE PROCEDURES

This document has been prepared to provide a description and schedule for the performance of maintenance on permanent pollution abatement measures. Maintenance measures to be performed will be dependent on what permanent pollution abatement measures are incorporated into the project. The project specific water pollution abatement plan should be reviewed to determine what permanent pollution abatement measures are incorporated into a project.

It should also be noted that the timing and procedures presented herein are general guidelines, adjustment to the timing and procedures may have to be made depending on project specific characteristics as well as weather related conditions but may not be altered without TCEQ approval.

Where a project is occupied by the owner, the owner may provide for maintenance with his own skilled forces or contract for recommended maintenance of Permanent Best Management Practices. Where a project is occupied or leased by a tenant, the owner shall require tenants to contract for such maintenance services either through a lease agreement, property owners association covenants, or other binding document.

I understand that I am responsible for maintenance of the Permanent Pollution Abatement Measures included in this project until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property or ownership is transferred.

I, the owner, have read and understand the requirements of the attached Maintenance Plan and Schedule.

May Cleaver

Max Cleaver Hays ISD

1-16-25

Dat

INSPECTION AND MAINTENANCE SCHEDULE FOR PERMANENT POLLUTION ABATEMENT MEASURES

Recommended Frequency	Task	Task to be Performed												
	1	2	3	4	5	6	7	8	9	10	11	12	13	
After Rainfall														
Biannually*														

*At least one biannual inspection must occur during or immediately after a rainfall event. $\sqrt{$ Indicates maintenance procedure that applies to this specific site.

See description of maintenance task to be performed on the following pages. Frequency of maintenance tasks may vary depending on amount of rainfall and other weather-related conditions but may not be altered without TCEQ approval.

A written record should be kept of inspection results and maintenance performed.

	Task No. & Description	Included in thi	s project
1.	Mowing	Yes	No
2.	Litter and Debris Removal	Yes	No
3.	Erosion Control	Yes	No
4.	Level Sensor	Yes	No
5.	Nuisance Control	Yes	No
6.	Structural Repairs and Replacement	Yes	No
7.	Discharge Pipe	Yes	No
8.	Detention and Drawdown Time	Yes	No
9.	Sediment Removal	Yes	No
10.	Logic Controller	Yes	No
11.	Vegetated Filter Strips	Yes	No
12.	Visually Inspect Security Fencing for Damage or Breach	Yes	No
13.	Recordkeeping for Inspections, Maintenance, and Repairs	Yes	No

MAINTENANCE PROCEDURES FOR PERMANENT POLLUTION ABATEMENT MEASURES

Note: Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 3.5.

<u>Inspections</u>. Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately. *A written record should be kept of inspection results and corrective measures taken*

- 1. <u>Mowing</u>. The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.
- Litter and Debris Removal. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.
- 3. <u>Erosion control</u>. The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.
- 4. <u>Level Sensor</u>. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin.
- 5. <u>Nuisance Control</u>. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).



- 6. <u>Structural Repairs and Replacement</u>. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced. A written record should be kept of inspection results and corrective measures taken
- 7. <u>Discharge Pipe</u>. The basin discharge pipe shall be checked for accumulation of silt, debris or other obstructions which could block flow. Soil accumulations, vegetative overgrowth and other blockages should be cleared from the pipe discharge point. Erosion at the point of discharge shall be monitored. If erosion occurs, the addition of rock rubble to disperse the flow should be accomplished. A written record should be kept of inspection results and corrective measures taken
- 8. Detention and Drawdown Time. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. This characteristic can be a sign of the need for maintenance. The minimum drawdown time is 24 hours. If drawdown time is less than 24 hours, the actuator valve shall be checked and partially closed to limit the drawdown time. Extensive drawdown time greater than 48 hours may indicated blockage of the discharge pipe. Corrective actions should be performed and completed within 15 working days. A written record of the inspection findings and corrective actions performed should be made.
- 9. <u>Sediment Removal</u>. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.
- 10. Logic Controller. The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.
- 11. <u>Vegetated Filter Strips</u>. Vegetation height for native grasses shall be limited to no more than 18inches. When vegetation exceeds that height, the filter strip shall be cut to a height of approximately 4 inches. Turf grass shall be limited to a height of 4-inches with regular maintenance that utilizes a mulching mower. Trash and debris shall be removed from filter strip prior to cutting. Check filter strip for signs of concentrated flow and erosion. Areas of filter strip showing signs of erosion shall be repaired by scarifying the eroded area, reshaping, regrading, and



placement of solid block sod over the affected area. A written record of the inspection findings and corrective actions performed should be made

- 12. <u>Visually Inspect Security Fencing for Damage or Breach</u>. Check maintenance access gates for proper operation. Damage to fencing or gates shall be repaired within 5 working days. *A written record should be kept of inspection results and maintenance performed.*
- 13. <u>Recordkeeping Procedures for Inspections, Maintenance, Repairs, and Retrofits.</u>
 - Written records shall be kept by the party responsible for maintenance or a designated representative.
 - Written records shall be retained for a minimum of five years.



AGENT AUTHORIZATION FORM (TCEQ-0599)

Agent Authorization Form For Required Signature Edwards Aguifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999 Max Cleaver Print Name **Chief Operations Officer** Title - Owner/President/Other of ______ Hays عدای Hays Corporation/Partnership/Entity Name have authorized Pape-Dawson Consulting Engineers, LLC Print Name of Agent/Engineer of Pape-Dawson Consulting Engineers, LLC Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

leaver

Applicant's Signature

4-12-21

Date

THE STATE OF Jeras § County of Hayp §

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

GIVEN under my hand and seal of office on this 12 day of ______, 2021

111111 JOANNE KLAERNER Notary Public, State of Texas Comm. Expires 11-22-2021 Notary ID 4415582 OFT

NOTARY PUBLIC Joanne Haerner Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 11-22-2021

APPLICATION FEE FORM (TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality Name of Proposed Regulated Entity: <u>Hays CISD Impact Center</u> Regulated Entity Location: <u>4125 FM 967, Buda, TX 78610</u> Name of Customer: <u>Hays CISD</u>								
Contact Person: Max Cleaver	Phor	ne· (512) 268-2141						
Customer Reference Number (if is	sued)·CN 601392384	IC. (512) 200 2141						
Regulated Entity Reference Numb	per (if issued):RN							
Austin Regional Office (3373)		•						
Hays	Travis	W	illiamson					
San Antonio Regional Office (336	52)							
Bexar	Medina		valde					
 Comal	 Kinney							
Application fees must be paid by	check, certified check, o	or money order, payab	le to the Texas					
Commission on Environmental Q	uality. Your canceled o	check will serve as you	r receipt. This					
form must be submitted with yo	ur fee payment. This p	ayment is being submi	itted to:					
Austin Regional Office	□ s	an Antonio Regional O	office					
Mailed to: TCEQ - Cashier	×α) Vernight Delivery to: 1	CEQ - Cashier					
Revenues Section	1	2100 Park 35 Circle						
Mail Code 214	E	Building A, 3rd Floor						
P.O. Box 13088	А	Austin, TX 78753						
Austin, TX 78711-3088	(512)239-0357						
Site Location (Check All That App	ly):							
🔀 Recharge Zone	Contributing Zone	Transi	tion Zone					
Turne of Dir		<u> </u>	Tee Due					
	N Centributine Zene	5120	ree Due					
Water Pollution Abatement Plan,	Contributing Zone	Acros	ć					
Plan: One Single Family Residentia	ai Dwelling	Acres	Ş					
Plan: Multiple Single Family Resid	ential and Parks	Acres	¢					
Water Pollution Abatement Plan	Contributing Zone	Acres	~					
Plan: Non-residential		8.87 Acres	\$ 5000					
Sewage Collection System		L.F.	\$					
Lift Stations without sewer lines		Acres	\$					
Underground or Aboveground Sto	orage Tank Facility	Tanks	\$					
Piping System(s)(only)		Each	\$					
Exception		Each	\$					
Extension of Time		Each	\$					

Signature: <u>May Cleaver</u>

Date: <u>12-19-</u>2024

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

	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

Project	Cost per Linear Foot	Minimum Fee- 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 Pining System	Minimum Fee- Maximum Fee
110jeet	riping system	Muximum rec
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

POLLUTANT LOAD AND REMOVAL CALCULATIONS

TSS Removal Calculations 04-20-2009			Project Name: Hays CISD Impact Center Date Prepared: 12/3/2024
Additional information is provided for cells with a red triangle i Text shown in blue indicate location of instructions in the Technical Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Change	n the upp Guidance es to thes	<mark>er right corr</mark> Manual - RG e fields will	er. Place the cursor over the cell. -348. remove the equations used in the spreadsheet.
1. The Required Load Reduction for the total project:	Calculations	from RG-348	Pages 3-27 to 3-30
Page 3.20 Equation 3.3: 1	27.2(A., y D)		·
	D		
where: L _{M TOTAL} PROJECT = A _N = P = .	Required TS Net increase Average ann	S removal resu in impervious a nual precipitation	ting from the proposed development = 80% of increased load irea for the project i, inches
Site Data: Determine Required Load Removal Based on the Entire Project			
Total project area included in plan * =	8.87	acres	
Predevelopment impervious area within the limits of the plan * = Total post-development impervious area within the limits of the plan * =	1.61 2.98	acres	target removal for entire site
Total post-development impervious cover fraction * =	0.34		(load generated by 1.61 ac
P =	33	inches	pre-regulation impervious
L _{M TOTAL PROJECT} =	1230	lbs.	cover not included)
* The values entered in these fields should be for the total project area.			
Number of drainage basins / outfalls areas leaving the plan area =	1		
2. Drainage Basin Parameters (This information should be provided for eac	<u>:h basin):</u>		
Drainage Basin/Outfall Area No. =	Basin W		
Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area =	1.56	acres	
Post-development impervious area within drainage basin/outfall area =	1.04	acres	
Post-development impervious traction within drainage basin/outrali area = L _{M THIS BASIN} =	0.67 934	lbs.	
2. Indicate the unsurged DND Code for this basis			
S. Indicate the proposed BMP Code for this basin.			
Proposed BMP = Removal efficiency =	Extended D 91	percent	
			Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormoeptor Vegetated Filter Strips Vortechs
			Wet Basin
4. Calculate Maximum TSS Load Removed (L _p) for this Drainage Basin by t	he selected	BMP Type.	Wet Vault
RG-348 Page 3-33 Equation 3.7: Le =	(BMP efficie	ncv) x P x (A, x	$34.6 + A_{P} \times 0.54$
	·	,,,	
where: A _c = · A ₁ = ·	Total On-Site	e drainage area area proposed ii	in the BMP catchment area t the BMP catchment area
where: $\label{eq:constraint} \begin{array}{l} A_{\rm C}=\\ A_{\rm I}=\\ A_{\rm P}=\\ \end{array}$	Total On-Site Impervious a Pervious are	e drainage area area proposed in a remaining in f	in the BMP catchment area t the BMP catchment area he BMP catchment area
where: $\label{eq:constraint} \begin{array}{l} A_{C}=\\ A_{I}=\\ A_{P}=\\ \\ L_{R}=\\ \end{array}$	Total On-Situ Impervious a Pervious are TSS Load re	e drainage area area proposed in a remaining in emoved from thi	in the BMP catchment area 1 the BMP catchment area he BMP catchment area s catchment area by the proposed BMP
where: A _C = : A _i = A _P = L _R = : A _C =	Total On-Situ Impervious a Pervious are TSS Load re 1.56	e drainage area area proposed in a remaining in emoved from thi acres	in the BMP catchment area the BMP catchment area he BMP catchment area is catchment area by the proposed BMP load removed by the basin a
where: A _C = : A _I = , A _P = , L _R = : A _C = , A _C = , A _P = , A _P = ,	Total On-Situ Impervious are Pervious are TSS Load re 1.56 1.04 0.52	e drainage area area proposed in a remaining in emoved from thi acres acres acres	in the BMP catchment area the BMP catchment area he BMP catchment area is catchment area by the proposed BMP load removed by the basin a designed based on
where: A _C = · A _i = A _P = · L _R = ·	Total On-Site Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089	e drainage area area proposed in ea remaining in emoved from thi acres acres acres lbs	in the BMP catchment area the BMP catchment area he BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load
where: A _C = A _i = A _i = A _i = A _i = L _R = C	Total On-Situ Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089	e drainage area area proposed in a remaining in emoved from thi acres acres acres Ibs	in the BMP catchment area the BMP catchment area he BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load generation/removal
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where: A _C = A _I = A _P = L _R = A _C = A _C = A _I = A _P = L _R = 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall . Desired Lynopores =	Total On-Situ Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089 area	e drainage area area proposed in a remaining in i moved from thi acres acres acres lbs	in the BMP catchment area the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load generation/removal (141 lb to be removed
where: A _C = A _I = A _P = A _P = L _R = L _R = L _R = C _I = C	Total On-Siti Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089 area 1089	e drainage area area proposed it a remaining in 1 emoved from thi acres acres acres lbs	in the BMP catchment area the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS)
where: $A_{C}=$ $A_{I}=$ $A_{P}=$ $L_{R}=$ $A_{C}=$ $A_{T}=$ $A_{P}=$ $L_{R}=$ 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall I. Desired L _{M THIS BASIN} = F = F = F = F = F = F = F = F = F =	Total On-Siti Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089 area 1089 1.00	e drainage area area proposed it ea remaining in i moved from thi acres acres lbs lbs	in the BMP catchment area the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS)
where: $A_{c} = A_{l} = A_{P} = A_{P} = B_{R} = B_{R$	Total On-Siti Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089 area 1089 1.00 1.00	e drainage area area proposed in a remaining in 1 moved from thi acres acres lbs	in the BMP catchment area the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin are designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36
where: A _c = A _l = A _p = L _R = L _R = A _c = A _l = A _l = L _R = 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall . Desired L _{M THIS BASIN} = F = 6. Calculate Capture Volume required by the BMP Type for this drainage basin	Total On-Siti Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089 area 1089 1.00 usin / outfall	e drainage area area proposed in a remaining in 1 moved from thi acres acres lbs lbs.	in the BMP catchment area the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin area designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36
where: A _c = A _l = A _p = A _p = L _R = L _R = A _p = A _p = L _R = 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall : Desired L _{M THIS BASIN} = F = E 6. Calculate Capture Volume required by the BMP Type for this drainage basin F Post Development Runoff Coefficient = On-site Water Quality Volume =	Total On-Siti Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089 area 1089 1.00 1.00 1.00 1.01 1.00 1.01 1.00 1.01 1.01 1.00	e drainage area area proposed it ea remaining in moved from thi acres acres lbs lbs. lbs.	in the BMP catchment area the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36
where: A _c = A _i = A _p = L _R = L _R = 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall . L _R = 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall . Desired L _{M THIS BASIN} = F = 6. Calculate Capture Volume reguired by the BMP Type for this drainage basin / Second Basin /	Total On-Siti Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089 area 1089 1.00 15in / outfall 4.00 0.47 10738 Calculations	e drainage area area proposed in ea remaining in 1 emoved from thi acres acres lbs lbs. lbs. larea. inches cubic feet from RG-348	in the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin at designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36
where: A _c = A _l = A _p = L _R = L _R = A _c = A _f = A _r = L _R = L _R = L _R = 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall: Desired L _{M THIS BASIN} = F = 6. Calculate Capture Volume required by the BMP Type for this drainage basin = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to RMP =	Total On-Siti Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089 1089 1.00 1.50 1.00 1.50 0.47 10738 Calculations 0.00	e drainage area area proposed in a remaining in 1 moved from thi acres acres lbs lbs. lbs. larea. inches cubic feet from RG-348 acres	in the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin a designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36
where: A _c = A _f = A _f = A _f = A _c = A _f = A _f = A _f = A _f = Construction of Annual Runoff to Treat the drainage basin / outfall : Desired L _{M THIS BASIN} = F = 6. Calculate Capture Volume required by the BMP Type for this drainage basin F = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	Total On-Siti Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089 1.00 1.00 1.00 1.00 1.00 0.47 10738 Calculations 0.00 0.00	e drainage area area proposed in a remaining in 1 moved from thi acres acres lbs lbs. lbs. lbs. lbs. lbs. lbs. larea. inches cubic feet from RG-348 acres acres	in the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin are designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36
where: A _c = A _f = A _f = A _f = L _R = $A_{c} =$ A _f = A _f = A _f = A _f = Construction of Annual Runoff to Treat the drainage basin / outfall is Desired L _{M THIS BASIN} = F = 6. Calculate Capture Volume required by the BMP Type for this drainage basin Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	Total On-Siti Impervious a Pervious are TSS Load re 1.56 1.04 0.52 1089 1.00 1.00 1.00 0.47 10738 Calculations 0.00 0.00 0.00 0.00	e drainage area area proposed in a remaining in 1 moved from thi acres acres lbs lbs. lbs. lbs. lbs. larea. inches cubic feet from RG-348 acres acres	in the BMP catchment area the BMP catchment area is catchment area by the proposed BMP load removed by the basin area designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36 Pages 3-36 to 3-37
where: A _c = A _f = Construction of Annual Runoff to Treat the drainage basin / outfall is Desired L _{M THIS BASIN} = F = 6. Calculate Capture Volume required by the BMP Type for this drainage basin Constitution of the drainage basin / outfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient = Off-site Water Quality Volume =	Total On-Siti Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089 1.00 1.00 1.00 0.47 10738 Calculations 0.00 0.000 0.000 0.000 0.000	e drainage area area proposed in a remaining in 1 moved from thi acres acres lbs lbs. lbs. lbs. lbs. lbs. lbs. lbs.	in the BMP catchment area the BMP catchment area is catchment area by the proposed BMP load removed by the basin as designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36 Pages 3-36 to 3-37
where: A _c = A _i = A _p = L _R = A _i = A _c = A _i = A _i = A _i = Collabelity Colume required by the BMP Type for this drainage basin / outfall Colf-site area draining to BMP = Off-site area draining to BMP = Off-site water Quality Volume =	Total On-Siti Impervious are Pervious are TSS Load re 1.56 1.04 0.52 1089 1.00 1.00 1.00 0.47 10738 Calculations 0.00 0.00 0 0.00 0 0.00 0	e drainage area area proposed in aa remaining in 1 moved from thi acres acres lbs lbs. lbs. lbs. lbs. lbs. lbs. lbs.	in the BMP catchment area the BMP catchment area s catchment area by the proposed BMP load removed by the basin as designed based on contributing area load generation/removal (141 lb to be removed elsewhere by VFS) Calculations from RG-348 Pages 3-34 to 3-36

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009 Project Name: Hays CISD Impact Center Date Prepared: 12/3/2024 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. 1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: L_M = 27.2(A_N x P) L_{M TOTAL PROJECT} = Required TSS removal resulting from the proposed development = 80% of increased load where A_N = Net increase in impervious area for the project P = Average annual precipitation, inches target removal for entire site Site Data: Determine Required Load Removal Based on the Entire Project (load generated by 1.61 ac County = Hays pre-regulation impervious Total project area included in plan * = 8.87 acres Predevelopment impervious area within the limits of the plan* = 1.61 acres cover not included) Total post-development impervious area within the limits of the plant = acres Total post-development impervious cover fraction* 0.34 Р 33 inches 1230 lbs. L_{M TOTAL PROJECT} = * The values entered in these fields should be for the total project area. Number of drainage basins / outfalls areas leaving the plan area = 1 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = VFS Total drainage basin/outfall area = 0.15 acres Predevelopment impervious area within drainage basin/outfall area= 0.00 acres Post-development impervious area within drainage basin/outfall area= 0.15 acres Post-development impervious fraction within drainage basin/outfall area= 1.00 L_{M THIS BASIN} = 135 lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Vegetated Filter Strips Removal efficiency = 85 percent Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault 4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type. RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54) A_C = Total On-Site drainage area in the BMP catchment area where: AI = Impervious area proposed in the BMP catchment area A_P = Pervious area remaining in the BMP catchment area L_R = TSS Load removed from this catchment area by the proposed BMP A_C = 0.15 acres



CORE DATA FORM (TCEQ-10400)



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason fo	or Submis	sion (If other is c	checked pleas	e descri	ibe in sp	bace p	orovide	d.)				
New Pe	rmit, Regis	tration or Authori	ization (Core I	Data Fo	rm shou	uld be	submit	tted wit	h the p	rogram applicatio	n.)	
🗌 Renewa	l (Core Da	ta Form should b	be submitted v	vith the	renewal	l form))	□ C	ther			
2. Customer	2. Customer Reference Number (if issued) Follow this link to search						irch	3. Regulated Entity Reference Number (if issued)				
CN 601392384					<u>or RN n</u> ntral Reg	umbers gistry**	<u>s in</u>	RN				
SECTION	II: Cu	stomer Info	ormation									
4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)												
☐ New Cust ☐Change in	New Customer Update to Customer Information Change in Regulated Entity Ownership Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)											
The Custo	mer Nar	ne submitted	here may	be upo	dated a	autor	matic	ally b	ased	on what is cu	rrent and	active with the
Texas Sec	retary o	f State (SOS)	or Texas C	compti	roller o	of Pu	ıblic A	Αςςοι	ınts (CPA).		
6. Customer	Legal Na	me (If an individua	l, print last nam	e first: e	g: Doe, J	lohn)		<u>lf i</u>	new Cu	stomer, enter previ	ous Custome	er below:
Hays CIS	D											
7. TX SOS/C	PA Filing	Number	8. TX State	Tax ID	(11 digits))		9. Federal Tax ID (9 digits) 10. DUNS Number (if applicat			S Number (if applicable)	
					r				- <u>r</u>			
11. Type of C	Customer:	Corporat	ion		🗌 Ir	ndividu	Jal		Par	tnership: 🗌 Gener	al 🗌 Limited	
Government:	🗌 City 🖂	County 🗌 Federal [🛾 State 🔲 Othe	r	□s	ole Pr	roprieto	orship	\boxtimes	Other: School D	istrict	
12. Number	of Employ	rees		5-7				13	. Indep	endently Owned	and Opera	ted?
0-20	21-100	101-250	251-500	\boxtimes	501 and	d highe	er		Yes	🖂 No		
14. Custome	r Role (Pr	oposed or Actual) -	- as it relates to	the Reg	ulated E	intity lis	sted on	this for	n. Pleas	se check one of the	following	
Owner			tor		Ow	ner &	Opera	tor		_		
	nal Licens	ee 🗌 Respo	onsible Party			untary	/ Clean	iup Ap	olicant	Other:		
	21003	IH 35										
15. Mailing												
Address.	City	Kyle		S	tate	ΤX		ZIP 78640			ZIP + 4	
16. Country	Mailing In	formation (if outsi	ide USA)				17. E-	Mail A	ddres	(if applicable)		
18. Telephor	ne Numbe	r		19. Ex	ctensio	n or C	ode			20. Fax Numbe	r (if applicat	ole)
()	_									()	_	
· /										\ /		

SECTION III: Regulated Entity Information

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

Hays CISD

23. Street Address of	4125	5 FM	967							
the Regulated Entity:										
(No PO Boxes)	City		Buda	State	TX	ZIP	78610	Z	ZIP + 4	
24. County	Hays	5								
		En	ter Physical Lo	cation Descript	ion if no sti	eet addres	s is provided			
25. Description to Physical Location:										
26. Nearest City							State		Near	est ZIP Code
27. Latitude (N) In Decin	nal:				28. L	.ongitude (\	N) In Decima	l:		
Degrees	Minutes		S	econds	Degre	es	Minute	es		Seconds
30		5	5	42		97		53		27
29. Primary SIC Code (4	4 digits) 30. Secondary SIC Code (4 digits) 31. Primary NAICS Code (5 or 6 digits) 32. Secondary NAICS (5 or 6 digits) 33. Secondary NAICS				CS Code					
8211					611110					
33. What is the Primary	Busines	ss of	this entity? (Do not repeat the SIC	or NAICS des	cription.)				
Public School										
					2	1003 35				
34. Mailing										
Address:	Cit	ty .	Kyle	State	ТХ	ZIP	78640)	ZIP + 4	
35. E-Mail Address	:				1	NA				
36. Telepho	one Nur	nber		37. Extensio	on or Code		38. Fax	x Numbei	r (if applic	cable)
(515) 2	(515) 268-2141			(()) -		
39. TCEQ Programs and ID form. See the Core Data Form) Number instructio	ers Ch	neck all Programs additional guidan	and write in the pe	rmits/registra	tion numbers	that will be affe	ected by th	e updates s	submitted on this
Dam Safety	🗌 Di	istricts		🖾 Edwards Aqu	lifer	Emissi	ons Inventory A	Air 🗌	Industrial	Hazardous Waste
Municipal Solid Waste	🗌 Ne	ew Sol	urce Review Air	OSSF		Petrole	eum Storage Ta	ank 🗌] PWS	
Sludge	🗌 St	torm W	/ater	Title V Air		Tires			Used Oil	
	<u> </u>									
U Voluntary Cleanup	ЦW	aste V	/ater	Wastewater A	Agriculture	U Water	Rights] Other:	

SECTION IV: Preparer Information

40. Name:	Stacey Wei	chert			41. Title:	Vice President
42. Telephone Number 43. Ext./Code 44. Fax Number				45. E-Mail /	Address	
(210)	375-9000		()	-	sweichert@pape-dawson.com	

SECTION V: Authorized Signature

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

Company:	npany: Pape-Dawson Engeineers, LLC Job Title: Vice			esident		
Name (In Print):	ame (In Print): Stacey Weichert, P.E.				(210) 375- 9000	
Signature:	Stacy Veich +			Date:	3/4/25	

EXHIBITS



DATE SIGNATURE DESCRIPTION

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL

REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE: INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND - THE NAME OF THE APPROVED PROJECT; MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS 10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT - THE ACTIVITY START DATE; AND BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR. REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO . ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH PERMANENTLY STABILIZED. THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER 6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE. INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER. ETC. 3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, 7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY. NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION 8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE. APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.

STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR SAN ANTONIO, TEXAS 78233-4480 PERMANENTLY CEASE ON A PORTION OF THE SITE; AND - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

POLLUTION ABATEMENT STRUCTURE(S). INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;

3. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER: C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED

IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN. SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD

PHONE (210) 490-3096 FAX (210) 545-4329





SILT FENCE PLACEMENT

FOR PERIMETER CONTROL

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS. THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE

SHEET IN THE CIVIL IMPROVEMENT PLANS.



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					IMPACT CENTER				
WATERSHED	SUB- WATERSHED AREA (AC)	IMPERVIOUS COVER PREVIOUSLY APPROVED** (AC)	WATERSHED TOTAL (AC)	PROPOSED IMPERVIOUS COVER TREATED BY VFS (AC)	PROPOSED IMPERVIOUS COVER TREATED BY BASIN (AC)	TOTAL IMPERVIOUS COVER (ACRES)	BMP	REQUIRED TSS REMOVAL (LBS./YR)	DESIGNED TSS REMOVAL (LBS./YR)
W1	1.56				1.04	1.04	PROPOSED BATCH DETENTION BAIN		1,089
VFS	0.15			0.15	0.00	0.15	VFS		146
TOTAL	8.87	1.61	8.87			2.98		1,230	1,235

WATER QUALITY BASIN SUMMARY						
BASIN	REQUIRED VOLUME (CF)	DESIGNED CAPTURE VOLUME (CF)				
BASIN	12,886	14,312				







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 PROPOSE CHANCE

K	EXISTING
	GUTTER
b	HIGH POINT
;	TOP OF CURB

	Det	ention Eleva	tion Area Ta	able	
	Area	Avg. Area	Depth	Volume	Cumu Stor
Elevation	sf	sf	ft	cf	C
877.25	0				0.0
		3750	0.75	2813	
878.00	7500				28
		8000	1.00	8000	
879.00	8500				108
		8750	0.40	3500	
879.40	9000				143
	WAT	ER QUALITY	ENDS AT 8	79.40	
		9300	0.60	5580	
880.00	9600				198
		10200	1.00	10200	
881.00	10800				300

NOTES:

- 1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PROPERTY CORNERS.
- 3. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE-GROUND UTILITIES AND APPURTENANCES IN DRIVE AREAS.
- 5. ADA GRADING NOTES: • SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A
- RAMP [TAS 403.3] • THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. [TAS 405.2, 405.6] • ACCESSIBLE ROUTES MUST HAVE A CROSS SLOPE NO GREATER THAN 2%.
- GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 302.1]
- SIDEWALKS AND ACCESSIBLE ROUTES ARE TO BE AT 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE • CURB RAMPS SHALL NOT EXCEED 6" IN VERTICAL DIFFERENCE, AND SLOPE SHALL BE NO MORE THAN 12:1
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- 8. NO ABRUPT CHANGE OF GRADE SHALL OCCUR. 9. ALL DISTURBED AREAS SHALL BE REVEGETATED BY THE CONTRACTOR IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND LANDSCAPING PLANS.
- 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM THESE PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AT HIS EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL, OR BETTER, CONDITION ANY DAMAGES INCURRED TO EXISTING UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEM)
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES PROVIDING TEMPORARY UTILITY SERVICES DURING CONSTRUCTION. 13. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE REGARDING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS
- OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT. 14. CURB ADJACENT TO RAMPS SHALL BE SLOPED TO BE FLUSH WITH RAMP. 15. CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER AND GUTTER IN SIZE, GRADE, TYPE AND ALIGNMENT AT ADJACENT ROADWAYS. CONTRACTOR TO MATCH
- GRADES WITH VARIATIONS AS NEEDED TO DRAIN. 17. EXISTING CONTOUR INFORMATION SHOWN IS AT ONE (1) FOOT INTERVALS. THE CONTOURS ARE COMPUTER GENERATED FROM LIDAR DATA FLOWN ON OR ABOUT MARCH 2021.



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Detention Elevation Area Table							
Elevation	Area	Avg. Area	Depth ft	Volume cf	Cumulativ Storage cf		
877.25	0				0.00		
		3750	0.75	2813			
878.00	7500				2813		
		8000	1.00	8000			
879.00	8500				10813		
		8750	0.40	3500			
879.40	9000				14312		
	WA ⁻	TER QUALITY	ENDS AT 8	79.40			
		9300	0.60	5580			
880.00	9600				19893		
		10200	1.00	10200			
881.00	10800				30093		

WATER QUALITY BASIN SUMMARY							
BASIN	REQUIRED VOLUME (CF)	DESIGNED CAPTURE VOLUME (CF)					
BASIN	12,886	14,312					





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LEGEND:

PROPERTY BOUNDARY

IMPERVIOUS COVER -WEST DRAINAGE AREA (27,400 SF)

IMPERVIOUS COVER —EAST 1 DRAINAGE AREA (31,700 SF)

IMPERVIOUS COVER —EAST 2 DRAINAGE AREA (11,000 SF) NO CHANGE IN PROPOSED CONDITIONS

TOTAL IMPERVIOUS COVER =70,100 SF =1.61 AC IMPACT CENTER

1980 IMPERVIOUS COVER EXHIBIT

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LEGEND:

PROPERTY BOUNDARY

IMPERVIOUS COVER -WEST 1 DRAINAGE AREA (45,400 SF)

DRAINAGE AREA BOUNDARY

IMPERVIOUS COVER -WEST 2 DRAINAGE AREA (9,900 SF)

IMPERVIOUS COVER -EAST 1 DRAINAGE AREA (63,600 SF)

IMPERVIOUS COVER -EAST 2 DRAINAGE AREA (11,000 SF)

TOTAL IMPERVIOUS COVER =129,900 SF =2.98 AC

CENTER

IMPACT

JOB NO.	51459-02
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DESIGNER	JK
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DRAWN	JK
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