## Water Pollution Abatement Plan for:

[In compliance with 30 TAC 213.5(b) & 217 -TCEQ Edwards Aquifer Protection Program]

## **Rosenblatt Law Firm Expansion**

<u>Project Address:</u> 16731 Huebner Rd (NW of the Huebner Rd. & Deerfield Wood Intersection) San Antonio, Texas 78248

Legal Description:

Being 1.80 acres being Lot 92, Block 1, New County Block 18908, San Antonio, Bexar County, Texas of HRDW Property Development, LTD. Subdivision Replat, Recorded in Vol. 9597, PG. 164 of the Deed and Plat Records of Bexar County, Texas.

**PREPARED BY:** 

March 25, 2024



221 W. RHAPSODY, STE. 102 SAN ANTONIO, TX 78216 (210) 340-5670 FAX: (210) 340-5728 WWW.ADACG.COM TBPE REGISTERED ENGINEERING FIRM NO. F-003512

## 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 revi1ew of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application.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

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

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

1. Regulated Entity Name: Rosenblatt Offices			2. Regulated Entity No.: RN109734038					
3. Customer Name: Brettonwoods Properties, LLC			4. Customer No.: CN605399435					
5. Project Type: (Please circle/check one)	New	Modification Extension		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):	1.8			
9. Application Fee:	\$4,000	10. Permanent BMP(s):			s):	Stormfilter & V	egetative Filter Strips	
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks):			nks):	N/A		
13. County:	Bexar	14. Watershed:				Upper Salado Creek		

# **Application Distribution**

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

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

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

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

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)					
Region (1 req.)					
County(ies)					
Groundwater Conservation District(s)	<u>X</u> 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 X 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.

## Michael P. Sepeda, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

**3/22/24** Date

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

# GENERAL INFORMATION FORM

Modification to a Previously Approved Plan

# **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: Michael P. Sepeda, P.E.

Date: 3/22/2024

Signature of Customer/Agent:

## **Project Information**

- 1. Regulated Entity Name: Rosenblatt Law Firm Expansion.
- 2. County: Bexar
- 3. Stream Basin: Upper Salado Creek
- 4. Groundwater Conservation District (If applicable): Edwards Aquifer Authority
- 5. Edwards Aquifer Zone:

Recharge Zone

6. Plan Type:

$\times$	WPAP
	SCS
	Modification

] AST
] UST
Exception Request

TCEQ-0587 (Rev. 02-11-15)

1 of 4

7. Customer (Applicant):

Contact Person: <u>James D. Rosenblatt</u> Entity: <u>Brettonwoods Properties, LLC</u> Mailing Address: <u>16731 Huebner Rd</u> City, State: <u>San Antonio, TX</u> Telephone: <u>210-562-2900</u> Email Address: \_\_\_\_\_

Zip: <u>78248</u> FAX: <u>N/A</u>

8. Agent/Representative (If any):

Contact Person: <u>Michael P. Sepeda, P.E.</u> Entity: <u>ADA Consulting Group, Inc.</u> Mailing Address: <u>221 W. Rhapsody, Suite 102</u> City, State: <u>San Antonio, TX</u> Telephone: <u>210-340-5670</u> Email Address: <u>mike@adacg.com</u>

Zip: <u>78216</u> FAX: <u>210-340-5728</u>

9. Project Location:

The project site is located inside the city limits of <u>San Antonio, TX</u>.

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

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

At the NW corner of Huebner Rd. & Deerfield Wood intersection.

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

Project site boundaries.

USGS Quadrangle Name(s).

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

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

13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

Survey staking will be completed by this date: \_\_\_\_\_

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

## **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 C Project Description

The subject site is a 1.80-acre tract of land that is located at the northwest corner of Huebner Rd. and Deerfield Wood intersection that is approximately 2,000' south from the Huebner Rd. and Loop 1604 intersection within the City of San Antonio city limits. This property is currently developed as a law firm office currently comprised of a +/-9,200 s.f. office building, +/-13,500 sf parking lot with about 33 spaces, concrete sidewalks and landscape improvements. This development has an existing *Filterra Stormfilter* system being an 8' x 14' peak diversion unit to treat the localized storm water runoff in accordance with the approved Water Pollution Abatement Plan. The excess / overflow runoff is diverted through the stormfilter unit and discharged via the outlet pipe and headwall directly into the adjacent creek. Also, a portion of the roof runoff is being treated by engineered filter strips.

The proposed improvements to this site entail adding a new +/-3,790 s.f. office building onto the site and reconstruct portions of the existing parking lot to add more parking. There will be some regrading within the reconstruction areas however all the storm water runoff will ultimately drain to the same existing stormfilter system. But before it enters the existing stormfilter system, the storm water runoff will be conveyed to a proposed grate inlet and underground 18" pipe storage system to allow for treatment flow through equalization. The roof area runoff being treated by the engineering filter strips generally remains the same.

The required impervious cover treatment for the proposed conditions does not vastly deviate from the existing conditions. Specifically, for the two buildings (accumulatively) there will be a proposed footprint area of approximately 13,067 s.f. (0.300 acres). The proposed asphalt drives and sidewalk areas is approximately 20,994 s.f. (0. acres). This totals to 34,061 s.f. (0.782 acres – 40.8%) of project site impervious cover. The remaining project area will remain natural or landscaped.

# **GEOLOGIC ASSESSMENT**

Modification to a Previously Approved Plan

# **GEOLOGICAL ASSESSMENT**

TCEQ-0585











Geologic Site Assessment (WPAP)

<u>The Rosenblatt Tract</u> <u>San Antonio, Texas</u>

FROST GEOSCIENCES, INC. PROJECT NO.: FGS-E17132

MARCH 23, 2017

Prepared exclusively for

*JMS Architects, Inc.* 2115 *Anchor Drive, Suite #3 San Antonio, Texas 78213* 



# Geotechnical = Construction Materials Forensics = Environmental

13402 Western Oak Helotes, Texas 78023 Phone: (210) 372-1315 Fax: (210) 372-1318



13402 Western Oak Heiotes, Texas 78023 Phone (210) 372-1315 Fax (210) 372-1318 www.frostgeosciences.com SDVOSB VBE DIBE SBE TBPE Firm Registration # F-9227 TBPG Firm Registration # 50040

March 23, 2017

JMS Architects. Inc. 2115 Anchor Drive, Suite #3 San Antonio, Texas 78213

Attn: Mr. Joseph M. Smith, LEED, AP, AIA

Re: Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone The Rosenblatt Tract San Antonio, Texas

Frost GeoSciences, Inc. Control # FGS-E17132

Dear Sir:

Attached is a copy of the Geologic Assessment Report completed for the above referenced project site as it relates to 30 TAC §213.5(b)(3), effective June 1, 1999. Our investigation was conducted and this report was prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04). The results of our investigation, along with any recommendations for Best Management Practices (BMP's), are provided in the following report.

If you have any questions regarding this report, or if Frost GeoSciences, Inc. may be of additional assistance to you on this project, please feel free to call our office. It has been a pleasure to work with you and we wish to thank you for the opportunity to be of service to you on this project. We look forward to being of continued service.



Sincerely, Frost GeoSciences, Inc.

Steve Frost, C.P.G. President, Senior Geologist

Distribution: (6) Coursen-Kuehler Engineering & Associates.

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Frost GeoSciences
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## **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: Steve Frost, C.P.G., P.G. Telephone: (210) 372-1315

Date:	March	23,	2017	
-------	-------	-----	------	--

Fax: (210) 372-1318

AST UST

Representing: Frost GeoSciences, Inc., TBPE #F-9227, TBPG # 50040

Signature of Geologist:

Regulated Entity Name: The Rosenblatt Tract

## **Project Information**

- 1. Date(s) Geologic Assessment was performed: \_\_\_\_\_ March 9, 2017
- 2. Type of Project:

$\checkmark$	WPAP
	SCS

- 3. Location of Project:
  - Recharge Zone
    Transition Zone
    Contributing Zone within the Transition Zone

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Steve M. Frost Geology

scense No. 31

Geotechnical • Construction Materials • Forensics • Environmental

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

# Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

s(feet)	Thi	Group*	Soil Name
O to 1		D	Cb

- \* Soil Group Definitions (Abbreviated)
  - A. Soils having a high infiltration rate when thoroughly wetted.
  - B. Soils having a moderate infiltration rate when thoroughly wetted.

Frost GeoSciences

- 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:  $1" = \underline{30}$ ' Site Geologic Map Scale:  $1" = \underline{30}$ ' Site Soils Map Scale (if more than 1 soil type):  $1" = \underline{500}$ '

9. Method of collecting positional data:

✓ Global Positioning System (GPS) technology.
 ✓ Other method(s). Please describe method of data collection: 2015 Aerial Photograph

- 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.

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Geotechnical • Construction Materials • Forensics • Environmental

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00000			

12. See 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.

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.



## Stratigraphic Column

[Hydrogeologic subdivisions modified from Maclay and Small (1976); groups, formations, and members modified from Rosc (1972); lithology modified from Dunham (1962); and porosity type modified from Choquette and Pray (1970). CU, confining unit; AQ, aquifer]

Hydrogeologic subdivision			Group, formation, or member			Hydro- logic function	Thickness (feet)	Lithology	Field Identification	Cavern development	Porosity/ permeability type	
Upper Cretaceous	Up confi	Eagle Ford Group Buda Limestone Del Rio Clay			CU	30 - 50	Brown, flaggy shale and argillaceous limestone	Thin flagstones; petroliferous	None	Primary porosity lost/ low permeability		
	un				CU	40 - 50	Buff, light gray, dense mudstone	Porcelancous limestone with calcite-filled veins	Minor surface karst	Low porosity/low permeability		
					CU	40 - 50	Blue-green to yellow-brown clay	Fossiliferous; Ilymatogyra arietina	None	None/primary upper confining unit		
Lower Cretaceous	1		Georgetown Formation			Karst AQ; not karst CU	2 - 20	Reddish-brown, gray to light tan marly limestone	Marker fossil; Waconella wacoensis	None Low porosity/low permeability		
	11			Ę	Cyclic and AQ marine members, undivided		XO 90	Mudstone to packstone: miliolial grainstone: chert	Thin graded cycles: massive beds to relatively thin beds; crossbeds	Many subsurface; might be associated with earlier karst development	Laterally extensive; both fabric and not fabric/water-yielding	
	ш			Person Formatio	Leached and collapsed members, undivided	AQ	70 – 90	Crystalline limestone; mudstone to grainstone; chert; collapsed breecia	Bioturbated iron- stained beds separated by massive himestone beds; stromatolitic limestone	Extensive lateral development: large rooms	Majority not fabric/one of the most permeable	
	IV	ds aquifer	Group		Regional dense member	ເບ	20 - 24	Dense, argillaceous mudstone	Wispy iron-oxide stains	Very few; only vertical fracture enlargement	Not fabric/low permeability; vertical barrier	
	V	Edward	Edwards	lation	Grainstone member	ΑQ	50 - 60	Miliolid grainstone; mudstone to wackestone; chert	White crossbedded grainstone	Few	Not fabric/ recrystallization reduces permeability	
	VI				Kirschberg evaporite member Dolomitic member		50 - 60	Highly altered crystalline limestone; chalky mudstone; chert	Boxwork voids, with neospar and travertine frame	Probably extensive cave development	Majority fabric/one of the most permeable Mostly not fabric; some bedding plane- fabric/water-yielding	
	VII			ainer Form			110 130	Mudstone to grainstone; crystalline limestone; chert	Massively bedded light gray, Toucasia abundant	Caves related to structure or bedding planes		
	VIII			X	Basal nodular member	Karst AQ; not karst CU	st 50 – 60 Shaly, nodular Massive, nodular and mottled, <i>Exogyra</i> and <i>miliolid</i> grainstone <i>texana</i>		Large lateral caves at surface; a few caves near Cibolo Creek	Fabric; stratigraphically controlled/large conduit flow at surface; no permeability in subsurface		
	Low confir un	Upper member of the Glen Rose Limestone			CU; evaporite beds AQ	350 - 500	Yellowish tan, thinty bedded limestone and marl	Stair-step topography; alternating limestone and mar!	Some surface cave development	Some water production at evaporite beds/relatively impermeable		

March 23, 2017 JMS Architects, Inc. Page 4

Geotechnical - Construction Materials - Forensics - Environmental

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#### LOCATION

The project site consists of approximately 1.8 acres of partially developed land located along and west of Huebner Road in San Antonio. Texas. An overall view of the area is shown on copies of the site plan, a street map, the U.S.G.S. Topographic Map, the Official Edwards Aquifer Recharge Zone Map, the FIRM Map, a 1962 Aerial Photo at a scale of 1"=500', a geologic map, a 2017 Aerial Photo at a scale of 1"=500', and a 2017 Aerial Photo at a scale of 1"=200', Plates 1 through 9 in Appendix A.

#### METHODOLOGY

The Geologic Assessment was performed by Mr. Steve Frost, C.P.G., President and Senior Geologist with Frost GeoSciences, Inc.. Mr. Frost is a Licensed Professional Geoscientist in the State of Texas (License # 315), and is a Certified Professional Geologist with the American Institute of Professional Geologist (Certification # 10176).

Frost GeoSciences, Inc. researched the geology of the area near the project site. The research included, but was not limited to, the Geologic Atlas of Texas, San Antonio Sheet, FEMA maps, Edwards Aquifer Recharge Zone Maps, U.S.G.S. 7.5 Minute Quadrangle Maps, the Bureau of Economic Geology-Geologic Atlas of Texas, the Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, the U.S.G.S. Water-Resources Investigations Report 95-4030, and the U.S.D.A. Soil Survey of Bexar County, Texas.

After reviewing the available information, a field investigation was performed to identify any geologic or man made potential recharge features. A transect spacing of approximately 50 feet, or less depending on vegetation thickness, was used to inspect the project area. A 2017 aerial photograph, in conjunction with a hand held Global Positioning System with an Estimated Potential Error of 10 feet, was used to navigate around the property and identify the locations of potential recharge features, as recommended in the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-

1-04). The locations of any potential recharge features noted in the field were marked with blue and white flagging. The flagging is numbered with the same potential recharge feature LD. # that is used on the Site Geologic Map. The Site Geologic Map, indicating the limits of the project site, and the locations of potential recharge features and rock outcrops noted on the project site, is included in Appendix C. A copy of a 2017 Aerial Photograph at an approximate scale of 1"=200' indicating the limits of the project site, and the locations of potential recharge features and rock outcrops noted on the project site, is included on Plate 9 in Appendix A. The Geologic Assessment Form TCEQ-0585. (Rev. 2-11-15), Stratigraphic Column, and the Geologic Assessment Table have been filled with the appropriate information for this project site and are included on pages 1-5 of this report.

#### **RESEARCH & OBSERVATIONS**

#### 7.5 Minute Quadrangle Map Review

According to the U.S.G.S. 7.5 Minute Quadrangle Map, Castle Hills, Texas Sheet (1992), the elevation across the project site ranges from 950 feet above mean sea level along the northern property line to 960 feet above mean sea level at the southern property line. Runoff from the project site flows to the north into an unnamed tributary of Panther Creek. Huebner Road is visible immediately east of the site. Loop 1604 is visible north of the site. A copy of the U.S.G.S. 7.5 Minute Quadrangle Map indicating the location of the project site is included on Plate 3 in Appendix A.

#### Recharge / Transition Zone

According to the Edwards Underground Water District Reference Map, (March 1988), and the Official Edwards Aquifer Recharge Zone Map, Castle Hills, Texas Sheet (2014), the project site is located within the Recharge Zone of the Edwards Aquifer. A copy of the Official Edwards Aquifer Recharge Zone Map, Castle Hills, Texas (2014) indicating the location of the project site is included on Plate 4 in Appendix A.

> March 23, 2017 JMS Architects, Inc. page 7

#### 100-Year Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for the Bexar County, Texas, Community Panel Number 48029C0235G (Revised September 29, 2010) was reviewed to determine if the project site is located in areas prone to flooding. A review of the above mentioned Panel No., indicates that the project site is located within "Zone AE" and "Zone X". According to the Panel Legend, Zone AE represents areas determined to be within the 100 year floodplain where base flood elevations have been determined. According to the above mentioned Panel No., elevations between 944 and 945 are within the 100 year floodplain. Zone X represents areas determined determined to be outside the 0.2% annual chance floodplain. A copy of the above referenced FIRM panel indicating the location of the project site is included on Plate 5 in Appendix A.

#### Soils

According to the United States Department of Agriculture, Soil Conservation Service, Soil Survey of Bexar County, Texas, Sheet 16, (1966), the project site is located on the Crawford & Bexar Stoney Soils (Cb). A copy of the 1962 aerial photo (approximate scale: 1"=500') from the U.S.D.A. Soil Survey of Bexar County, Texas indicating the location of the project site and the soil types is included on Plate 6 in Appendix A.

The Crawford and Bexar Stony Soils (Cb) are very dark grayish brown to reddish brown clay. They are stony clay in texture and are shallow to moderately deep over hard limestone. These soils are extensive in the northern part of the county. The surface layer is noncalcareous, about 8 inches thick, and very dark grayish brown or very dark brown. It has fine, subangular blocky and granular structure. When moist, this layer is very firm but breaks easily to a mass of fine clods. When dry, is very hard and contains many large cracks. Angular fragments of chert and limestone are common. These fragments may range in size from a quarter of an inch to 24 inches in diameter. The subsurface layer is dense, angular blocky clay. This layer

is neutral or slightly acidic, but it may be limy in the lower parts. It is about 26 inches thick and either overlies a thin layer of yellowish red to pale brown, limy clay or, if the limy layer is lacking, rests on hard, fractured limestone. Crawford soils are naturally well drained. Internal drainage and permeability vary according to moisture content. Water moves rapidly when the soil is dry and cracked, but very slowly when the soil is wet.

This soil has a USDA Texture Classification of Cherty Clay Loam to Loam. The Unified Classification is CG or CL. The AASHO Classification is A-2, A-4 or A-6. This soil has an average permeability from L0 to 1.5 inches/hour.

#### Narrative Description of the Site Geology

Based on a visual inspection of the ground surface, the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be low.

The locations of the Potential Recharge Features are identified on the 2017 aerial photograph on Plate 9 in Appendix A, and on the Site Geologic Map provided in Appendix C. Color photos of the project site and some of the potential recharge features are included in Appendix B.

Potential Recharge Features # S-1 is a fault. This fault was identified during the research of the property and appears on both the U.S.G.S. WRI 95-4030 Geologic Map of Bexar County, Texas (1995) and the Bureau of Economic Geology, Geologic Map of the New Braunfels, Texas 30x60 Minute Quadrangle (2000). No evidence of the fault was noted in the field during the on-site inspection or within the streambed immediately north of the site. According to these maps, the fault occurs on a strike of N  $63^{\circ}$ . Frost GeoSciences, Inc., rates the relative infiltration rate of this feature as low on figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). This feature scores a 35 on the sensitivity scale, column 10 in the Geologic Assessment Table on page 5 of this report. Frost GeoSciences, Inc. does not consider this to be a sensitive feature.

> March 23, 2017 JMS Architects, Inc. page 9

Potential Recharge Features # S-2 through S-4 consists of sanitary sewer manhole covers along an existing sewer line. Frost GeoSciences, Inc. rates the relative infiltration rate of these features as low on Figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). These features score a 35 on the sensitivity scale, column 10 in the Geologic Assessment Table on Page 5 of this report. Frost GeoSciences, Inc. does not consider these to be sensitive features.

The majority of the project site appears to be covered in several feet of fill material. Boulders and cobbles are placed around existing trees on the site and leveled out between them. A driveway and parking area are located across the central portion of the site. Portion of this parking area appear to have from 3 to 7 feet of fill material. Site visit photographs indicating the condition of the property at the time of the on-site inspection are included in Appendix B. Overall vegetation on the project site consists of ashe juniper (*Juniperus ashei*), live oak (*Quercus virginiana*), and cedar elm (*Ulmus crassifolia*), with Texas persimmon (*Diospyros texana*), agarita (*Berberis trifoliolata*), yucca (*Yucca treculeana*), and prickly pear cactus (*Opuntia lindheimeri*). The variations in the vegetative cover on the property are visible in the 2017 aerial photograph on Plates 8 and 9 in Appendix A.

A copy of the site plan indicating the boundary of the project site and the elevations is included on the site plan on Plate 1 in Appendix A and on the Site Geologic Map in Appendix C of this report.

According to the United States Geologic SurveyWater Resources Investigations #95-4030 Geologic Map of Bexar County, Texas the project site is located on the Cyclic & Marine Member and the Leached & Collapsed Member of the Cretaceous Edwards Person Limestone (Kep).

The Cyclic and Marine Member of the Cretaceous Edwards Person Limestone consists of mudstone to packstone and miliolid grainstone with chert. The member is characterized by massive beds of limestone to relatively thin beds of limestone with some crossbedding. The Cyclic and Marine Member forms a few caves some that are laterally

extensive. Overall thickness ranges from 80 to 90 feet thick.

The Leached and Collapsed Member of the Edwards Person Limestone consists of crystalline limestone, mudstone to grainstone with chert, and collapsed breccia. This member is stromatolitic limestone. The Leached and Collapsed Member is characterized by bioturbated iron stained beds separated by massive limestone beds. This member is typically one of the most permeable and has extensive lateral development with large rooms. Overall thickness ranges from 70 to 90 feet thick.

A copy of the above referenced map indicating the location of the project site is included on Plate 7 in Appendix A. A copy of the Stratigraphic Collum highlighting the outcropping formations is included on Page 5 of this report.

#### BEST MANAGEMENT PRACTICE (BMP)

Based on a visual inspection of the ground surface, the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be low. The potential always exists to encounter solution cavities within the subsurface during excavating activities. Particularly along the fault that runs through the property. Frost GeoSciences, Inc. is of the opinion that it is very important for construction personnel to be informed of the potential to encounter cavities in the subsurface that lack a surface expression. Construction personnel should also be informed of the proper protocol to follow in the event a karst feature is encountered during the development of the project site.

#### DISCLAIMER

This report has been prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04) by a Licensed Texas Professional Geoscientist. All areas of the project site were carefully inspected for features that could contribute to the recharge of the Edwards Aquifer, however, this survey cannot preclude the presence of subsurface karst features that lack surface expression. This report is not intended to be a definitive investigation of all

possible geologic or karst features at this site. All conclusions, opinions, and recommendations for Best Management Practices (BMP's) in this report are based on information obtained while researching the project, and on the site conditions at the time of our field investigation.

This report has been prepared for the exclusive use of JMS Architects, Inc. This report is based on available known records, a visual inspection of the project site, and the work generally accepted for a Geologic Assessment for Regulated Activities / Developments on the Edwards Aquifer Recharge / Transition Zone, relating to 30 TAC §213.5(b)(3), effective June 1, 1999.

#### REFERENCES

- 1) U.S.G.S. 7.5 Minute Quadrangle Map, Castle Hills, Texas Sheet (1992).
- 2) Edwards Underground Water District Reference Map. (March 1988).
- 3) Official Edwards Aquifer Recharge Zone Map, Castle Hills, Texas Sheet (2014).
- 4) Stein, W.G. and Ozuna, G.B., 1995, <u>Geologic Framework and Hydrogeologic</u> <u>Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas</u>.
   U.S. Geological Survey Water Resources Investigations 95-4030.
- 5) Barnes, V.L., 1983, <u>Geologic Atlas of Texas, San Antonio Sheet</u>, Bureau of Economic Geology, The University of Texas at Austin, Texas.
- Federal Emergency Management Agency (FEMA). September 29, 2010, Bexar County,
  Texas and Incorporated Areas. <u>Flood Insurance Rate Map (FIRM), Panel #48029C0235G</u>,
  FEMA, Washington D.C.
- 7) U.S.D.A. Soil Conservation Service, Soil Survey of Bexar County, Texas (1966).
- TCEQ-0585-Instructions (Rev. 10-1-04). "Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zone".
- 9) Collins, Edward, W., 2000, Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, Bureau of Economic Geology, The University of Texas at Austin, Texas.

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Geotechnical • Construction Materials • Forensics • Environmental

# Appendix A

Site Location Plates


















for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone The Rosenblatt Tract San Antonio, Texas

## Google Earth

DATE:

**PROJECT NO.:** FGS-E17132

March 23, 2017

Geotechnical - Construction Materials - Forensics - Environmental

## Appendix B

Site Inspection Photographs

## Frost GeoSciences



View to the north, of the project site along the eastern property line.



View to the south, of the project site along the eastern property line.





View of fill material along the parking area in the central portion of the project site.

View of fill material around a cluster of trees in the eastern central portion of the site.



View of fill material around a cluster of trees in the northern central portion of the site.

View of fill material along the parking area in the central portion of the project site.

## Frost GeoSciences



View of Potential Recharge Feature # S-2.

View of Potential Recharge Feature # S-4.





View to the south, of the parking area in the central portion of the project site.

View to the north, of the parking area in the central portion of the project site.





View to the east, of the project site along the northern property line.

View to the south, of the project site along the western property line.

### Frost GeoSciences



View to the southeast, from the northwestern property corner.



View of fill material along the western side of the parking area in the central portion of the project site.





View to the south, along the western property line near the southwestern property corner.

View of fill material along the western side of the parking area in the southern portion of the project site.







View to the west, of the project site along the southern property line.

## Appendix C

Site Geologic Map



## MODIFICATION OF A PREVIOUSLY APPROVED PLAN

Modification to a Previously Approved Plan

## Modification of a Previously Approved Plan

### **Texas Commission on Environmental Quality**

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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 request for a **Modification of a Previously Approved Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Michael P. Sepeda, P.E.

Date: <u>3/22/2024</u>

Signature of Customer/Agent:

2/20

### **Project Information**

 Current Regulated Entity Name: <u>Rosenblatt Law Firm Expansion</u> Original Regulated Entity Name: <u>Rosenblatt Offices</u> Regulated Entity Number(s) (RN): <u>109734038</u>

Edwards Aquifer Protection Program ID Number(s): 13000381

The applicant has not changed and the Customer Number (CN) is: 605399435

- The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- 2. Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.

3. A modification of a previously approved plan is requested for (check all that apply):

Physical or operational modification of any water pollution abatement structure(s)
including but not limited to ponds, dams, berms, sewage treatment plants, and
diversionary structures;

- 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;
- Development of land previously identified as undeveloped in the original water pollution abatement plan;

Physical modification of the approved organized sewage collection system;

Physical modification of the approved underground storage tank system;

Physical modification of the approved aboveground storage tank system.

4. Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

WPAP Modification	Approved Project	Proposed Modification	
Summary			
Acres	<u>1.87</u>	<u>1.80</u>	
Type of Development	Commercial (prof. offices)	Commercial (prof. offices)	
Number of Residential	<u>N/A</u>	<u>N/A</u>	
Lots			
Impervious Cover (acres)	<u>0.83</u>	<u>0.78</u>	
Impervious Cover (%	<u>45</u>	<u>41</u>	
Permanent BMPs	VFS & StormFilter	VFS & StormFilter	
Other			
SCS Modification	Approved Project	Proposed Modification	
Summary			
Linear Feet			
Pipe Diameter			
Other			

AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs		
Volume of ASTs		
Other		
UST Modification	Approved Project	Proposed Modification
UST Modification Summary	Approved Project	Proposed Modification
<b>UST Modification</b> <b>Summary</b> Number of USTs	Approved Project	Proposed Modification
UST Modification Summary Number of USTs Volume of USTs	Approved Project	Proposed Modification

- 5. Attachment B: Narrative of Proposed Modification. A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any previous modifications, and how this proposed modification will change the approved plan.
- 6. Attachment C: Current Site Plan of the Approved Project. A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
  - The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
  - The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
  - The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.

The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.

- The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
- 7. The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
  - Acreage has not been added to or removed from the approved plan.
- 8. 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.





Owinh

### **Deed Recordation Affidavit**

Edwards Aquifer Protection Plan

THE STATE OF TEXAS §

County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Sance Rosenblatt</u> who, being duly sworn by me deposes and says:

- (1) That my name is \_\_\_\_\_ and that I ewen the real property \_\_\_\_\_ described below.
- (2) That said real property is subject to an EDWARDS AQUIFER PROTECTION PLAN which was required under the 30 Texas Administrative Code (TAC) Chapter 213.
- (3) That the EDWARDS AQUIFER PROTECTION PLAN for said real property was approved by the Texas Commission on Environmental Quality (TCEQ) on \_\_\_\_\_\_ June 21, 2017

A copy of the letter of approval from the TCEQ is attached to this affidavit as Exhibit A and is incorporated herein by reference.

(4) The said real property is located in <u>Bexar</u> County, Texas, and the legal description of the property is as follows:

1.80 ACRES BEING LOT 92, BLOCK 1, NEW COUNTY BLOCK 18908, SAN ANTONIO, BEXAR COUNTY, TEXAS OF HRDW PROPERTY DEVELOPMENT, LTD. SUBDIVISION REPLAT, RECORDED IN VOL. 9597, PG. 164 OF THE DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS.

SWORN AND SUBSCRIBED TO before me, on this day of Jure 2017

ARY PUB

LANDOWNER-AFFIANT

THE STATE OF Texas

County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Same P</u>, <u>Kosenb</u> 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 day of UBLIC CARRIE SWANSON Notary Public State of Texas My Commission Expires Typed or Printed Name of Notary MY COMMISSION EXPIRES

Book 18616 Page 825 6pgs

TCEQ-0625 (Rev. 10/01/04)



ATTACHMENT A

### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Protecting Texas by Reducing and Preventing Pollution

June 21, 2017

Mr. Robert Stanley HRDW Property Development, Ltd. 17211 Eagle Hollow San Antonio, Texas 78248

Bryan W. Shaw, Ph.D., P.E., Chairman

Richard A. Hyde, P.E., Executive Director

Toby Baker, Commissioner

Jon Niermann, Commissioner

Re: Edwards Aquifer, Bexar County

NAME OF PROJECT: Rosenblatt Office; Located northwest of the Huebner Road and Deerfield Wood intersection; San Antonio, Texas

TYPE OF PLAN: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN109734038; Additional ID No. 13000381

Dear Mr. Stanley:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP for the above-referenced project submitted to the San Antonio Regional Office by Coursen-Koehler Engineering & Associates on behalf of HRDW Property Development, Ltd. on April 11, 2017. Final review of the WPAP was completed after additional material was received on June 8, 2017. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were selected and prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

### PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 1.87 acres. It will include the construction of two office buildings, parking, drainage improvements, and grading. The impervious cover will be 0.83 acres (45 percent). Project wastewater will be disposed of by conveyance to the existing Salado Creek Water Recycling Center owned by the San Antonio Water System.

TCEQ Region 13 + 14250 Judson Rd. + San Antonio, Texas 78233-4480 + 210-490-3096 + Fax 210-545-4329

Mr. Robert Stanley June 21, 2017 Page 2

#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, two engineered vegetative filter strips, and one StormFilter, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 677 pounds of TSS generated from the 0.83 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project. The individual treatment measures consist of following best management practices:

BMP	Total Area ` (ac)	Imp. Cover (ac)	Req. TSS Removed (lb/yr)	Design TSS Removed (lb/yr)
StormFilter	0.69	0.60	490	541
Vegetative Filter Strip	0.48	0.12	98	98
Vegetative Filter Strip	0.29	0.05	41	41
Uncaptured*	0.14	0.06	48	•
Pervious	0.27	-	-	· · - ·
Project Total	1.87	0.83	677	680

\*Uncaptured TSS load of 48 lb/yr will be overtreated in the StormFilter System.

### GEOLOGY

According to the geologic assessment included with the application, the site lies within the cyclic and marine members and the leached and collapsed members of the Person Formation. Three non-sensitive manmade features and one non-sensitive geologic feature were assessed by the project geologist in the assessment. The San Antonio Regional Office site assessment conducted on May 25, 2017 revealed that the site was generally as described in the application.

### SPECIAL CONDITIONS

- I. The permanent pollution abatement measures shall be operational prior to first occupancy of a facility within the measure's drainage area.
- II. All sediment and/or media removed from the permanent pollution abatement measures during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

### STANDARD CONDITIONS

- 1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
- 2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the

approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

#### Prior to Commencement of Construction:

- 4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

#### During Construction:

10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.

Mr. Robert Stanley June 21, 2017 Page 4

- 11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. No wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: 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.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

### After Completion of Construction:

- 18. 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 San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be 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. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

Mr. Robert Stanley June 21, 2017 Page 5

10 A

- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- 21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
- 22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Monica Reyes of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210)403-4012.

Sincerely,

Lynn Bumguardner, Water Section Manager San Antonio Region Texas Commission on Environmental Quality

LB/MR/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

cc: Mr. David Brodbeck, P.E., Coursen-Koehler Engineering & Associates Ms. Renee Green, P.E., Bexar County Public Works Mr. Scott Halty, San Antonio Water System Mr. Roland Ruiz, General Manager, Edwards Aquifer Authority

> Any provision Estein a high testif die the sale, or use of the described real property because of rece is invelid and unenforceable under Federal law STATE OF TEXAS, COUNTY OF BEXAR I hereby Certify that this instrument was FILED in File Number Sequence on this date and at the time stamped hereon by me and was duly RECORDED in the Official Public Record of Real Property of Bexar County, Texae en:

> > JUL 1 0 2017

COUNTY OLERK BEXAR COUNT

Doc# 20170133237 Fees: \$46.00 07/10/2017 4:14PM # Pages 6 Filed & Recorded in the Official Public Records of BEXAR COUNTY GERARD C. RICKHOFF COUNTY CLERK

### ATTACHMENT B Narrative of Proposed Modifications

The proposed improvements to this site entail adding a new +/-3,790 s.f. office building onto the site and reconstruct portions of the existing parking lot to add more parking. There will be some regrading within the reconstruction areas however all the storm water runoff will ultimately drain to the same existing StormFilter system. But before it enters the existing stormfilter system, the storm water runoff will be conveyed to a proposed grate inlet and underground 18" pipe storage system to allow for treatment flow through equalization. The roof area runoff being treated by the engineering filter strips generally remains the same.

The required impervious cover treatment for the proposed conditions does not vastly deviate from the existing conditions. Specifically, the attached table breaks down the previously approved WPAP values versus the Modification of a Previously Approved Plan utilizing the same StormFilter system. Only the underground detention volume used to equalize the treatment outflow for the StormFilter has been designed specifically for this Modification.

	Tot	al Area	Impervious Cover		Req. TSS Removed		Design TSS Removed		
	(	Ac.)	Are	Area (Ac.)		(lbs/yr)		(lbs/yr)	
BMP	Previous*	Modification	Previous*	Modification	Previous*	Modification	Previous*	Modification	
StormFilter	0.69	0.68	0.60	0.61	490	494	541	545	
Veg. Filter Strip	0.48	0.48	0.12	0.11	98	98	98	98	
Veg. Filter Strip	0.29		0.05		41		41		
Uncaptured	0.14	0.13	0.06	0.06	48	51			
Pervious	0.27	0.63							
Project Total	1.87	1.92	0.83	0.78	677	643	680	643	

TSS Summary Table - Previously Approved WPAP vs. Modification of PAP

\*Values from previously approved Water Pollution Abatement Plan

Note that the overall TSS was reduced from 680 lbs/yr to 643 lbs/yr since there is less overall amount of impervious cover than shown and as approved with the original previously approved plan. For the uncaptured area that produces 51 lbs/yr of TSS, the StormFilter and detention system treats a total of 545 lbs/yr which is 51 lbs/yr over than the indicated 494 lbs/yr required TSS removal.

### GENERAL NOTES:

INTEGRITY OF THE LINE.

THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST MEET ALL APPLICABLE CRITERIA OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SET FORTH IN 30 TEXAS ADMINISTRATIVE CODE (TAC) 213.5(B) - WATER POLLUTION ABATEMENT PLAN FOR REGULATED ACTIVITIES UNDERTAKEN ON THE RECHARGE ZONE OF THE EDWARDS AQUIFER. 2. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE REQUIRED DURING CONSTRUCTION. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED. THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSPECTED PERIODICALLY FOR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES

REPLACED AS NECESSARY TO MAINTAIN PROPER OPERATION. 3. IF ANY SENSITIVE FEATURE IS DISCOVERED DURING CONSTRUCTION, REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE OWNER MUST IMMEDIATELY NOTIFY THE APPROPRIATE REGIONAL OFFICE OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY OF THE SENSITIVE FEATURE DISCOVERED. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY WHILE MAINTAINING THE STRUCTURAL

AND FOLLOWING EVERY RAINFALL. DAMAGED OR OBSTRUCTED CONTROLS MUST BE REPAIRED OR

4. ANY MODIFICATION TO THE APPROVED WATER POLLUTION ABATEMENT PLAN MUST BE SUBMITTED TO THE APPROPRIATE REGIONAL OFFICE FOR APPROVAL BY THE EXECUTIVE DIRECTOR OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY BEFORE CONSTRUCTION OF THE PROPOSED MODIFICATION MAY COMMENCE.

ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.

6. AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR ONCE EVERY SEVEN (7) DAYS, AND WITHIN 24 HOURS AFTER A STORM EVENT OF A 1/2 INCH OR GREATER RAINFALL. CONTROLS WILL BE REPAIRED, REPLACED, AND/OR REVISED AS NECESSARY.

7. CONTRACTOR TO PLACE TRENCH EXCAVATION MATERIAL ON THE UPGRADIENT (HIGH) SIDE OF THE TRENCH.

8. ALL SOIL, SAND, GRAVEL, AND EXCAVATED MATERIALS STOCKPILED ON-SITE WILL HAVE APPROPRIATELY SIZED SILT FENCE.

9. CONTRACTOR TO INDICATE AND UTILIZE APPROPRIATE CONTROL METHODS AS NECESSARY.

#### MAINTENANCE: FILTER STRIPS.

SEASONAL MOWING AND LAWN CARE. IF THE FILTER STRIP IS MADE OF TURF GRASS, IT SHOULD BE MOWED AS NEEDED TO LIMIT VEGETATION HEIGHT TO 18 INCHES, USING A MULCHING MOWER (OR REMOVAL OF CLIPPING). IF NATIVE GRASSES ARE USED, THE FILTER MAY REQUIRE LESS FREQUENT MOWING, BUT A MINIMUM OF TWICE ANNUALLY. GRASS CLIPPING AND BRUSH DEBRIS SHOULD NOT BE DEPOSITED ON VEGETATED FILTER STRIP AREAS. REGULAR MOWING SHOULD ALSO INCLUDE WEED CONTROL PRACTICES, HOWEVER HERBICIDE USE SHOULD BE KEPT TO A MINIMUM. HEALTHY GRASS MAY BE MAINTAINED WITHOUT USING FERTILIZERS BECAUSE RUNOFF USUALLY CONTAINS SUFFICIENT NUTRIENTS. IRRIGATION OF THE SITE MAY ALSO HELP ASSURE A DENSE AND HEALTHY VEGETATIVE COVER.

INSPECTION OF FILTER STRIPS SHOULD BE DONE AT LEAST TWICE ANNUALLY FOR EROSION OR DAMAGE TO VEGETATION; HOWEVER, ADDITIONAL INSPECTIONS AFTER PERIODS OF HEAVY RUNOFF ARE MOST DESIRABLE. THE STRIP SHOULD BE CHECKED FOR UNIFORMITY OF GRASS COVER, DEBRIS AND LITTER, AND AREAS OF SEDIMENT ACCUMULATION. MORE FREQUENT INSPECTIONS OF THE GRASS COVER WILL BE MADE DURING THE FIRST FEW YEARS AFTER ESTABLISHMENT TO DETERMINE IF ANY PROBLEMS ARE DEVELOPING, AND TO PLAN FOR LONG-TERM RESTORATIVE MAINTENANCE NEEDS. BARE SPOTS AND AREAS OF EROSION IDENTIFIED DURING SEMI-ANNUAL INSPECTIONS SHOULD BE REPLANTED AND RESTORED TO MEET SPECIFICATIONS. CONSTRUCTION OF A LEVEL SPREADER DEVISE MAY BE NECESSARY TO REESTABLISH SHALLOW OVERLAND FLOW.

DEBRIS AND LITTER REMOVAL. ANY FILTER STRIP OR FILTER STRIP STRUCTURES (I.E. LEVELED SPREADERS) SHOULD BE KEPT FREE OF OBSTRUCTIONS TO REDUCE FLOATABLES FROM BEING FLUSHED DOWNSTREAM, AND FOR AESTHETIC REASONS. THE NEED FOR THIS PRACTICE WILL BE DETERMINED THROUGH PERIODIC INSPECTION, BUT WILL BE PERFORMED NO LESS THAN 4 TIMES PER YEAR.

SEDIMENT REMOVAL IS NOT NORMALLY REQUIRED IN FILTER STRIPS. HOWEVER, SEDIMENT MAY ACCUMULATE ALONG THE UPSTREAM BOUNDARY OF THE STRIP PREVENTING UNIFORM OVERLAND FLOW. EXCESS SEDIMENT SHOULD BE REMOVED BY HAND, WITH FLAT-BOTTOMED SHOVELS, OR LIGHT CONSTRUCTION EQUIPMENT.

GRASS RESEEDING AND MULCHING. A HEALTHY DENSE GRASS SHOULD BE MAINTAINED ON THE FILTER STRIP. IF AREAS ARE ERODED, THEY SHOULD BE FILLED, COMPACTED AND RESEEDED SO THAT THE FINAL GRADE IS LEVEL. GRASS DAMAGED DURING THE SEDIMENT REMOVAL PROCESS SHOULD BE PROMPTLY REPLACED USING THE SAME SEED MIX USED DURING FILTER STRIP ESTABLISHMENT. FLOW SHOULD BE DIVERTED, IF POSSIBLE, FROM THE DAMAGED AREAS UNTIL THE GRASS IS FIRMLY ESTABLISHED. BARE SPOTS AND AREAS OF EROSION IDENTIFIED DURING SEMI-ANNUAL INSPECTIONS MUST BE REPLANTED AND RESTORED TO MEET SPECIFICATIONS. CORRECTIVE MAINTENANCE, SUCH AS WEEDING OR REPLANTING SHOULD BE DONE MORE FREQUENTLY IN THE FIRST TWO TO THREE YEARS AFTER INSTALLATION TO ENSURE STABILIZATION. DENSE VEGETATION MAY REQUIRE IRRIGATION IMMEDIATELY AFTER PLANTING, AND DURING DRY PERIODS, PARTICULARLY AS THE VEGETATION IS INITIALLY ESTABLISHED.



## GRASSY SWALES

AINTENANCE:

SEASONAL MOWING AND LAWN CARE. CHANNEL MOWING WILL BE PERFORMED ROUTINELY AS NEEDED THROUGHOUT THE GROWING SEASON. GRASS WILL BE MOWED AS NEEDED TO LIMIT VEGETATION HEIGHT TO 2 INCHES, ABOVE THE DESIGN WATER DEPTH USING A MULCHING MOWER (OR REMOVAL OF CLIPPING). IF NATIVE GRASSES ARE USED, THE SWALE MAY REQUIRE LESS FREQUENT MOWING, BUT A MINIMUM OF TWICE ANNUALLY. GRASS CLIPPING AND BRUSH DEBRIS WILL NOT BE DEPOSITED WITHIN THE CHANNEL. REGULAR MOWING WILL ALSO INCLUDE WEED CONTROL PRACTICES, HOWEVER HERBICIDE USE WILL BE KEPT TO A MINIMUM. HEALTHY GRASS MAY BE MAINTAINED WITHOUT USING FERTILIZERS BECAUSE RUNOFF USUALLY CONTAINS SUFFICIENT NUTRIENTS. IRRIGATION OF THE SITE MAY ALSO HELP ASSURE A DENSE AND HEALTHY VEGETATIVE COVER.

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DEBRIS AND LITTER REMOVAL. ANY FILTER STRIP OR FILTER STRIP STRUCTURES (I.E. LEVELED SPREADERS) SHOULD BE KEPT FREE OF OBSTRUCTIONS TO REDUCE FLOATABLES FROM BEING FLUSHED DOWNSTREAM, AND FOR AESTHETIC REASONS. THE NEED FOR THIS PRACTICE WILL BE DETERMINED THROUGH PERIODIC INSPECTION, BUT WILL BE PERFORMED NO LESS THAN 4 TIMES PER YEAR.

SEDIMENT REMOVAL. SEDIMENT REMOVAL IS NOT NORMALLY REQUIRED IN FILTER STRIPS. HOWEVER, SEDIMENT MAY ACCUMULATE ALONG THE UPSTREAM BOUNDARY OF THE STRIP PREVENTING UNIFORM OVERLAND FLOW. EXCESS SEDIMENT SHOULD BE REMOVED BY HAND, WITH FLAT-BOTTOMED SHOVELS, OR LIGHT CONSTRUCTION EQUIPMENT.

GRASS RESEEDING AND MULCHING. A HEALTHY DENSE GRASS SHOULD BE MAINTAINED ON THE FILTER STRIP. IF AREAS ARE ERODED, THEY SHOULD BE FILLED, COMPACTED AND RESEEDED SO THAT THE FINAL GRADE IS LEVEL. GRASS DAMAGED DURING THE SEDIMENT REMOVAL PROCESS SHOULD BE PROMPTLY REPLACED USING THE SAME SEED MIX USED DURING FILTER STRIP ESTABLISHMENT. FLOW SHOULD BE DIVERTED, IF POSSIBLE, FROM THE DAMAGED AREAS UNTIL THE GRASS IS FIRMLY ESTABLISHED. BARE SPOTS AND AREAS OF EROSION IDENTIFIED DURING SEMI-ANNUAL INSPECTIONS MUST BE REPLANTED AND RESTORED TO MEET SPECIFICATIONS. CORRECTIVE MAINTENANCE, SUCH AS WEEDING OR REPLANTING SHOULD BE DONE MORE FREQUENTLY IN THE FIRST TWO TO THREE YEARS AFTER INSTALLATION TO ENSURE STABILIZATION. DENSE VEGETATION MAY REQUIRE IRRIGATION IMMEDIATELY AFTER PLANTING, AND DURING DRY PERIODS, PARTICULARLY AS THE VEGETATION IS INITIALLY ESTABLISHED.



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	A. ANY PHYSICAL OR OPERATION STRUCTURE(S), INCLUDING BUT NO PLANTS, AND DIVERSIONARY STRUCT	IAL MODIFICATION OF AN T LIMITED TO PONDS, DA	Y WATER POLLUTION ABATEI MS, BERMS, SEWAGE TREAT		TE: MARCH 24, 2017 SIGN: JV
	B. ANY CHANGE IN THE NATURE THAT WHICH WAS ORIGINALLY APP IMPACT THE ABILITY OF THE PLAN	OR CHARACTER OF THE ROVED OR A CHANGE W TO PREVENT POLLUTION	REGULATED ACTIVITY FROM	DR	AWN:
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	AUSTIN REGIONAL OFFICE 2800 S. IH 35, SUITE 100 AUSTIN, TEXAS 78704-5712 PHONE (512) 339-2929 FAX (512) 330-3305	SAN ANTONIO REG 14250 JUDSON RO SAN ANTONIO, TE) PHONE (210) 41	10NAL OFFICE IAD (AS 78233-4480 90-3096		SHEET
	()	(210) 040-4	020		

# WPAP APPLICATION

Modification to a Previously Approved Plan

## 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: Michael P. Sepeda, P.E.

Date: <u>3/22/24</u> Signature of Customer/Agent:

Regulated Entity Name: Rosenblatt Law Firm Expansion

### **Regulated Entity Information**

- 1. The type of project is:
  - Residential: Number of Lots:

Residential: Number of Living Unit Equivalents:

- 🔀 Commercial
- Industrial
- Other:\_\_\_\_
- 2. Total site acreage (size of property): 1.8
- 3. Estimated projected population: 16
- 4. The amount and type of impervious cover expected after construction are shown below:

TCEQ-0584 (Rev. 02-11-15)

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	13067	÷ 43,560 =	0.300
Parking	13108	÷ 43,560 =	0.301
Other paved surfaces	7886	÷ 43,560 =	0.181
Total Impervious Cover	34061	÷ 43,560 =	0.782

Table 1 - Impervious Cover Table

Total Impervious Cover 0.782 ÷ Total Acreage 1.915 X 100 = 40.8% 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:

Concrete
Asphaltic concrete pavement
Other:

9. Length of Right of Way (R.O.W.): \_\_\_\_\_ feet.

Width of R.O.W.: \_\_\_\_\_ feet. L x W = \_\_\_\_\_  $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$ 

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:

<u>100</u> % Domestic	<u>~800</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>~800</u>	

15. Wastewater will be disposed of by:

On-Site Sewage Facility (OSSF/Septic Tank):

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.

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 <u>Steven M. Clouse (Dos</u> <u>Rios)</u> (name) Treatment Plant. The treatment facility is:

$\times$	Existing.
	Proposed.

16.  $\square$  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:

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

No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): \_\_\_\_\_

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. (Check all of the following that apply)

The wells are not in use and have been properly abandoned.

The wells are not in use and will be properly abandoned.

] The wells are in use and comply with 16 TAC §76.

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

- 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. 🛛 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 Factors Affecting Water Quality

Landscaping, vehicular traffic, site grading and various construction activities may affect the quality of stormwater originating on the proposed site. These factors may cause small amounts of oil, grease, suspended solids, fertilizers, and pesticides to enter into the stormwater runoff. However, BMPs, both temporary and permanent, have been designed on the basis of the current Technical Guidance Manual to treat the required amount of stormwater runoff as to not adversely affect water quality entering into any surface water or groundwater.

### ATTACHMENT B Volume and Character of Stormwater

Stormwater runoff generated from the rooftops, driveways, sidewalks and landscape areas for the subject development may be impregnated with small amounts of oil, grease, suspended solids, fertilizers and pesticides. Storm water runoff within the site generally drains from south to north directly into the adjacent creek, known as Tributary A1 to Tributary A to Panther Springs Creek. A Contech *StormFilter* water quality system in conjunction with an underground detention pipe system for system equalization will be in place at the downstream end of the development to treat the collected detention storage storm water runoff before it is discharged offsite into the creek. As a result, both temporary and permanent BMP's have been designed on the basis of the Technical Guidance Manual to treat the required volume and character of storm water runoff to remove at least 80% of the increased TSS due to the proposed development. Reference calculations are listed below for the amount of storm water generated on the site in accordance with the attached WPAP Drainage Area Map.

A small area within the Huebner Rd and Deerfield Wood R.O.W. will be left as uncaptured storm water runoff however the *StormFilter* system will overtreat to compensate for the uncaptured runoff.

#### Runoff Coefficient "c" value

c =	0.47	for undeveloped areas	(grass cover over	75%, slopes 3% to 5%	)
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c = 0.97 for commercial areas (slopes 3% to 5%)

Onsite Existing / Proposed Development								
	TOTAL		TOTAL					
	DA-A, B, C		DA-A, B, C					
	Existing		Proposed					
Area =	1.785	(acres)	1.785	(acres)				
"c" =	0.64		0.69					
tc =	7.1	(min)	7.1					
I <sub>5</sub> =	7.08	(in/hr)	7.08		-			
I <sub>25</sub> =	9.90	(in/hr)	9.90		Flowrate			
I <sub>100</sub> =	12.43	(in/hr)	12.43		Increase			
					Ex vs. Prop			
<b>Q</b> 5 =	8.12	(cfs)	8.72	(cfs)	0.60			
<b>Q</b> <sub>25</sub> =	11.36	(cfs)	12.20	(cfs)	0.84			
<b>Q</b> <sub>100</sub> =	14.26	(cfs)	15.31	(cfs)	1.05			

### RATIONAL METHOD HYDROLOGY



- approval of a water pollution abatement plan for the placement of fill material or mas
- resume prior to the 21st day, stabilization measures are not required. If drought cond action by the 14th day, stabilization measures shall be initiated as soon as possible.
- the dates when major grading activities occur;
   the dates when construction activities temporarily or permanently cease on a port
- A. any physical or operational modification of any water pollution abatement structure(s),
- which would significantly impact the ability of the plan to prevent pollution of the Edw
- San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329

CURVE C1	RADIUS 2740.00'	ARC LENGTH 307.97'	DELTA ANGLE 6°26'24"	CHORD BEA S 13°27'22	RING C "W 3	HORD 07.81'	LENGTH
C2 C3	230.00'	60.58'	15°05'29"	N 80°36'45	W 2 W 6	<u>1.04</u> 0.41'	
SCA	LE: $1'' = 3$	<b>0 FT</b>	Know what Call and One free, easy call g AND helps protect y Call 811 or visit call	rs below. before you d ets your utility lines ma ou from injury and exp 11.com for more inform on Ground Alliance	lig. arked eense. aation.		
	LEG	END 652 — — — 651.90 6"ss - — — ((PVC) — — — 12 12 12 12 12 12 12 12 12 12	PROPERTY LINE EXISTING CONTOUR LINE – EXISTING SPOT ELEVATION EXISTING CONC. CURB EXISTING SANITARY SEWER EXISTING WATER LINE (MATH EXISTING OVERHEAD/UNDER EXISTING VOOD FENCE EXISTING/PROPOSED FIRE F EXISTING/PROPOSED UTILITY EXISTING LIGHT POLE	- IN FEET (IN FEET) LINE (MATERIAL) ERIAL) GROUND ELECTRIC HYDRANT Y POLE	TBI	DONAL	RM# F-3512 OF 7545 D OROIAN 0244 ENSEP NAL ENG NAL ENG
		O WV □ WM O CO O SSMH O STMH	EXISTING/PROPOSED WATER EXISTING/PROPOSED WATER EXISTING/PROPOSED CLEAN EXISTING/PROPOSED CLEAN EXISTING/PROPOSED SEWER EXISTING/PROPOSED STORM EXISTING CONCRETE/ASPHA EXISTING TREE PROPOSED CONCRETE/ASPHA PROPOSED CONCRETE DUMI PROPOSED CONCRETE SLOT PROPOSED CONCRETE SLOT PROPOSED CONCRETE SLOT PROPOSED CONCRETE SLOT PROPOSED CONCRETE SLOT PROPOSED CONCRETE SLOT STABILIZED CONSTRUCTION SILT FENCE CONCRETE TRUCK WASHOU	VALVE METER OUT MANHOLE MANHOLE MANHOLE T HALT PSTER PAD TED CURB B RETAINING WALL NG DNE BLOCKS ENTRANCE	CRIPTION DATE		DA CONSULTING GROUP, INC. 221 W. RHAPSODY, STE. 102 SAN ANTONIO, TX 78216 (210) 340-5670 FAX: (210) 340-5728
=			ROCK BERM		REVISION DESC		A TEXAS REGIST
with proper E&S controls. For e owner of the site must receive grading prior to the placement r lasting longer than 14 days, soil of inactivity. If activity will ions or inclement weather prevent : on of the site; and regional office in writing and neluding but not limited to ponds, iginally approved or a chanae	BEN TEMPORAF TEMPORAF NOTE: NOTE: NOTED TBM BASED ON CONTRACTO TBM'S PRIO TBM'S SHA	NCHMA RY BM #1: MAGNAIL ELEV.=9 RY BM #2: MAGNAIL ELEV.=9 M'S (TEMPORARY BEN SURVEY INFORMATION DR TO FIELD VERIFY ON DR TO FIELD VERIFY ON DR TO FIELD VERIFY ON DR TO CONSTRUCTION	W/ WASHER 55.28 CHMARKS) ON THESE PL N PROVIDED TO ENGINEE ACCURACY OF ANY NOTE N. IF DESIRED, REQUESTI WITH LISTED PROJECT S	ANS ARE R. D/SUGGESTED ED ADDITIONAL SURVEYOR AS A	WPAP SITE PLAN & TEMPORARY	POLLUTION ABATEMENT PLAN	ROSENBLATT LAW FIRM EXPANSION 16731 HUEBNER RD. SAN ANTONIO, TX 78248 DEAWN/CHECK DATE: JOB # DWG NAME:
is Aquifer;	SEPARATE	SEPARATE PAY ITEM.			SHEET		
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## TEMPORARY STORMWATER SECTION

Modification to a Previously Approved Plan

## **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: Michael P. Sepeda, P.E.

Date: <u>3/22/24</u>

Signature of Customer/Agent:

1.\_

Regulated Entity Name: Rosenblatt Law Firm Expansion

### **Project Information**

### **Potential Sources of Contamination**

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

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

The following fuels and/or hazardous substances will be stored on the site: \_\_\_\_\_

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

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

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>Panther Springs Creek</u>

## Temporary Best Management Practices (TBMPs)

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

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

		<ul> <li>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.</li> <li>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.</li> <li>A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.</li> <li>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</li> </ul>
8.	$\boxtimes$	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.
		<ul> <li>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.</li> <li>There will be no temporary sealing of naturally-occurring sensitive features on the site.</li> </ul>
9.		Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10.		Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:
		<ul> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.</li> <li>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.</li> <li>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.</li> <li>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 at one time.</li> </ul>

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 Spill Response Actions

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

The following steps will help reduce the storm water impacts of leaks and spills:

### Education

- (1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.
- (2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- (3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- (4) Establish a continuing education program to indoctrinate new employees.
- (5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

### **General Measures**

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater runon during rainfall to the extent that it doesn't compromise clean up activities.
- (7) Do not bury or wash spills with water.

- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

### Cleanup

- (1) Clean up leaks and spills immediately.
- (2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- (3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

### **Minor Spills**

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

(7) Clean the contaminated area and properly dispose of contaminated materials.

### Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

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

### Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) 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.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) 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.
- (5) Other agencies which may need to be consulted includ e, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

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

### Vehicle and Equipment Maintenance

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non- leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

### Vehicle and Equipment Fueling

- (1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- (2) Discourage "topping off" of fuel tanks.
- (3) Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

### ATTACHMENT B Potential Sources of Contamination

Potential Source	Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping.
Preventive Measure	Vehicle maintenance when possible will be performed within a construction staging area specified by the General Contractor.
Potential Source	Miscellaneous trash and litter from construction workers and material wrappings.
	Preventive Measure Trash containers will be placed throughout the site to encourage proper trash disposal.
Potential Source	Construction debris.
Preventive Measure	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis.
Potential Source	Stormwater contamination from excess application of fertilizers, herbicides and pesticides.
Preventive Measure	Fertilizers, herbicides and pesticides will be applied only when necessary and in accordance with manufacturers directions.
Potential Source	Soil and mud from construction vehicle tires as they leave the site.
Preventive Measure	A stabilized construction exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.
Potential Source	Sediment from soil, sand, gravel and excavated materials stockpiled on site.
Preventive Measure	Silt fence shall be installed on the downgradient side of all stockpiled materials. Reinforced rock berms shall be installed at all downstream discharge locations.

### ATTACHMENT C Sequence of Major Activities

Below	is a general sequence of events to be followed:	Approximate Area Disturbed
1.	Install erosion and sedimentation controls identified by plans	N/A
2.	Install tree protection (as required)	N/A
3.	Begin site clearing and earthwork	0.75 Acres
4.	Construct site utilities	0.10 Acres
5.	Construct building foundation	0.14 Acres
6.	Construct paving and drainage infrastructure (concrete walls)	0.63 Acres
7.	Complete construction	N/A
8.	Install landscaping/irrigation system & revegetate disturbed areas	0.50 Acres
9.	Receive permit and city clearance for occupancy	N/A
10	. Remove temporary erosion and sedimentation controls	N/A

### ATTACHMENT D Temporary Best Management Practices and Measures

- 1. Temporary Construction Entrance/Exit A stabilized pad of crushed stone located at any point where traffic will be entering or leaving the construction site from a public R.O.W., street, alley, sidewalk or parking area. It shall be a minimum of 50 feet long, 20 feet wide (or width of exit) and 8 inches thick. The rock shall be 4" to 8" in size.
- 2. Silt Fence A barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. Silt fences shall be installed on the downgradient side of the proposed areas to be disturbed that have a drainage area of no more than <sup>1</sup>/<sub>4</sub> acre per 100 feet of fence.
- 3. Rock Berm A sediment trap consisting of 3" to 5" diameter rock wrapped in woven wire sheathing. The berm shall have a minimum height of 18" and a minimum top width of 2 feet. A rock berm shall be placed at locations of concentrated flows where drainage area is between 2 and 5 acres.
- 4. Filter Curb Inlet Protection Sandbags filled with washed pea gravel and stacked to form a continuous barrier along the inlets to hold filter fabric in place. The filter must be secured to wire backing with clips or hog rings. The bags should be tightly abutted against each other to prevent runoff from flowing between the bags.
- 5. Grate Inlet Protection Wire mesh shall be laid over the inlet at least 1 ft. beyond each side of inlet. Aggregate shall be placed over the wire mesh at least 12 inches over the inlet and at least 18 inches beyond inlet opening on all sides.
- 6. Concrete Washout Pit To be a 12" minimum depth pit area lined with 10 mil. plastic lining with sandbags along pit perimeter. Washout pit to be located in an area easily accessible to construction traffic.
- 7. Temporary Seeding Temporary seeding of disturbed areas shall be performed if disturbed areas are expected to have no construction activity for a period of at least 21 days.

### Sequence of installation during construction process

- 1. The Temporary Construction Entrance/Exit shall be installed prior to disturbing any soil except at the location of the Temporary Construction Entrance/Exit. It shall stay in place and be maintained until the onsite pavement is in place.
- 2. A silt fence shall be installed along the downgradient sides of the site prior to any disturbance of the site. A silt fence shall be installed prior to Temporary Construction Entrance/Exit.
- 3. Filter Curb Inlet and Grate Inlet Protection shall be installed immediately after installation of each drainage inlet that they are intended to protect.
- 4. Concrete washout pit shall be installed in an area easily accessible to construction traffic.

5. Rock Berms shall be installed at concentrated stormwater discharge locations as indicated on the WPAP Site Plan prior to any disturbance of the site.

### Description of Temporary BMP Practices

- a) The site area will generally drain from south to north directly to the adjacent creek. Silt fence and/or triangular filter dike shall be placed along the downgradient portions of the site (north and eastern lot lines). A rock berm will be placed in front of the outlet headwall from the filtration system. Also, a stabilized construction entrance is shown at the main construction ingress/egress location(s).
- b) Temporary BMP's as described in section (b) will be set in place upgradient to any surface streams or sensitive features to prevent any pollution from going into the Aquifer.
- c) Naturally occurring sensitive features will be identified in the field as per the Geologic Assessment or if identified during construction. As mentioned in section (c), BMP's shall be located upgradient or even around the perimeter of such feature to prevent pollution from the entering the feature. As needed, the feature will be permanently sealed as per the TCEQ requirements described in TCEQ-0602.

### ATTACHMENT F Structural Practices

Pollutants of storm water runoff discharge from exposed areas of the site will be controlled through the utilization of temporary BMPs. Prior to leaving the site, flows containing pollutant discharges will be treated by a silt fence and stabilized construction entrance at locations as shown on the WPAP Site & Temporary Pollution Abatement Plan which will limit and control the amount of pollutants leaving the site.



X:\CLIENTS\074\89\TCEQ\074-89 WPAP DA MAP.DWG



DRAIN AREA	PROPOSED CONDITIONS:				
А	IMPERVIOUS: 26,379 SF (0. PERVIOUS: 3,239 SF (0.074	606 AC) AC)		₽ <del>8</del> 4	
В	IMPERVIOUS: 4,748 SF (0.1 PERVIOUS: 16,146 SF (0.37	09 AC) ′1 AC)			
С	IMPERVIOUS: 215 SF (0.005 PERVIOUS: 27,054 SF (0.62	5 AC) 21 AC)			OVERALL PROPOSED CONDITIONS:
D	IMPERVIOUS: 2,744 SF (0.0 PERVIOUS: 2,880 SF (0.066	63 AC) ; AC)			<u>IMPERVIOUS COVER AREA</u> PROP. BUILDING = 13,040 SF (0.299 AC) + PROP. PAVING & SIDEWALK = 18,321 SF (0.421 AC)
TOTAL	IMPERVIOUS: 34,061 SF (0	.782 AC; 40.8% I.C.)			TOTAL = 31,361 SF (0.720 AC OUT OF 1.796 AC) = 40.09% I.C.
	PERVIOUS: 49,344 SF (1.133 AC) TOTAL: 83,405 SF (1.915 AC) DRAINAGE AREA			WPAP PROPOSED DRAINAGE AREA MAP ROSENBLATT LAW FIRM EXPANSION 16731 HUEBNER RD.; SAN ANTONIO, TX 78248	
	ACREAGE DRAINAGE AREA BOUNDARY FLOWLINE PATH DRAINAGE FLOW ARROWS	DATE: 3/18/2024 DWG NAME: 074-89 WPAP DA MAI	JOB NUMBER: 074-89 P	SHEET NO. 2 of 2 SCALE: 1" = 40'	ADA CONSULTING GROUP, INC. 221 W. RHAPSODY, STE. 102 SAN ANTONIO, TX 78216 (210) 340-5670 FAX: (210) 340-5728

### ATTACHMENT I Inspection and Maintenance for BMPs

### Silt Fence

- 1. Inspect all fencing weekly, and after any rainfall.
- 2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
- 3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
- 4. Replace or repair any sections crushed or collapsed in the course of construction activity.

### Temporary Construction Entrance and Exits

- 1. The entrance should be maintained in a condition, which will prevent tracking or following of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- 2. All sediment spilled, dropped, washed or tracked on to public rights-of-ways should be removed immediately by contractor.
- 3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- 4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- 5. All sediment should be prevented from entering any storm drain, ditch, or water course by using approved methods.

### Triangular Filter Dike

- 1. Inspect all fencing weekly, and after any rainfall.
- 2. Remove sediment when buildup after each rainfall and disposed of in a manner which will not cause additional siltation.
- 3. Inspect and realign dikes as needed to prevent gaps between section.

### Rock Berm (if shown)

- 1. Inspection should be made weekly and after each rainfall by the responsible party.For installations in streambeds, additional daily inspections should be made.
- 2. Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation.
- 3. Repair any loose wire sheathing.
- 4. The berm should be reshaped as needed during inspection.
- 5. The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
- 6. The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.

STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

### SILT/FILTER FABRIC FENCE

INSPECTOR:			DATE:	
DAYS SINCE LAST RAINFA	ALL:	AMOUNT OF L	AST RAINFALL:	INCHES
LOCATION	BOTTOM OF FABRIC STILL BURIED?	FABRIC TORN OR SAGGING?	POSTS TIPPING OVER?	HOW DEEP IS THE SEDIMENT?

### MAINTENANCE REQUIRED FOR SILT FENCE:

TO BE PERFORMED BY: \_\_\_\_\_ ON OR BEFORE: \_\_\_\_\_

### STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

## STABILIZED CONSTRUCTION ENTRANCE / STAGING AREA

INSPECTOR:

DATE:\_\_\_\_\_

DAYS SINCE LAST RAINFALL: AMOUNT OF LAST RAINFALL:

INCHES
--------

LOCATION	IS SEDIMENT BEING TRACKED ONTO ROAD?	ENTRY SURFACE CLEAN OR SEDIMENT FILLED?	DOES ALL TRAFFIC USE ENTRANCE?

### MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY:

ON OR BEFORE:

STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

### INLET PROTECTION BARRIERS

INSPECTOR:	DATE:		
DAYS SINCE LAST RAINFALL:	AMOUNT OF LAST RAINFALL:	IN	CHES

LOCATION	IN PLACE?/ CONDITION?	DEPTH OF SEDIMENT	CONDITION OF INLET

### MAINTENANCE REQUIRED FOR INLET PROTECTION BARRIERS:

TO BE PERFORMED BY:

ON OR BEFORE:

STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

### TRIANGULAR SEDIMENT FILTER DIKES

INSPECTOR:		DATE:	
DAYS SINCE LAST RAINFALL:	AMOU	JNT OF LAST RAINFALL:	INCHES
LOCATION	IN PLACE?/ CONDITION?	DEPTH OF SEDIMENT	CONDITION OF INLET

MAINTENANCE REQUIRED FOR ROCK BERMS:

TO BE PERFORMED BY:

ON OR BEFORE:

# STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

### CONSTRUCTION ACTIVITIES LOG



DATE	ADDITIONAL COMMENTS

STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

**REASONS FOR CHANGES:** 

### ATTACHMENT J Schedule of interim and Permanent Soil Stabilization Practices

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of the 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 seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

As the development site is completed, permanent landscaping and sod will be planted and irrigated. Onsite grading for each residential lot will sheet flow localized runoff over vegetative filter strip area prior to the storm water runoff being collected within short concrete wall for minor detention storage.

# PERMANENT STORMWATER SECTION

Modification to a Previously Approved Plan

# **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: Michael P. Sepeda, P.E.

Date: 3/22/24

Signature of Customer/Agent

21 Ja

Regulated Entity Name: \_\_\_\_

### 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.

		<ul> <li>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.</li> <li>No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.</li> <li>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.</li> </ul>
7.	$\boxtimes$	Attachment C - BMPs for On-site Stormwater.
		<ul> <li>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.</li> <li>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.</li> </ul>
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.		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.
		<ul> <li>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.</li> <li>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.</li> </ul>
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:
		<ul> <li>Design calculations (TSS removal calculations)</li> <li>TCEQ construction notes</li> <li>All geologic features</li> <li>All proposed structural BMP(s) plans and specifications</li> </ul>
		N/A

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

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

N/A

degradation.

### Responsibility for Maintenance of Permanent BMP(s)

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

### Responsibility for maintenance of best management practices and measures after construction is complete.

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

N/A

15.  $\square$  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 B BMPs for Upgradient Stormwater

Little to no offsite storm water runoff is expected to enter the site since the upgradient areas are either curbed streets or the upgradient stormwater is conveyed directly to the creek and not towards the site. As a result, most of the offsite runoff will by collected and conveyed into the adjacent streets while the stormwater along the adjacent home properties to the west are conveyed directly to the creek via a natural low that runs near the property line.

### ATTACHMENT C BMPs for On-Site Stormwater

The BMP employed to prevent pollution of on-site originating storm water is an existing 8' x 14' Contech *StormFilter* system. The filtration system in a concrete vault shall provide where at least 80% of the increase TSS load generated by the site will be removed. Upstream from the filtration system, the storm water will be collected by a grate inlet located within the proposed parking lot and then conveyed into an underground storm drain pipe detention system. The detention volume will allow for the stormwater to have time (equalize) to filter through the system prior to having the excess stormwater bypass the filtration system. The runoff will slowly discharge out of an outlet pipe that is already in place from the previously approved pollution abatement plan. The *StormFilter* is already in place as well from the previously approved plan but TSS removal calculations have been provided to show that the existing *StormFilter* system can adequately treat the proposed office expansion development. Therefore, the *StormFilter* system does not have to be modified or altered for this modification plan.

Attached are the calculations from the TCEQ spreadsheet. The immediate watershed for the proposed development is approximately 0.68 acres. The required 80% TSS removal rate is 494 lbs. A small amount of proposed impervious cover measuring 0.013 acre will not be directed into the filtration system therefore the system has been sized to overtreat this amount of TSS.

Other areas that are not being disturbed will remain to be treated utilizing vegetative filter strips.

Anticipated pollutants can be oil and grease from vehicles as well as suspended solids and sediments that are transported by vehicles entering the site and that are transported through the air and accumulate on impervious cover surfaces. These BMP's are to designed in accordance with the current TCEQ Technical Guidance Manual.

### ATTACHMENT D BMPs for Surface Streams

No surface streams exist on the property. Therefore, it is not necessary to implement any additional permanent BMPs or measures other than the proposed filtration system.

## **ATTACHMENT F Construction Plans**

Contech Engineered Solutions TSS Removal Calculations	Calculations for Texas Commission on Environmental Quality			
Project Name: Date Prepared:	Rosenblatt Expansion 3/23/2024			
1. The Required Load Reductio	n for the total project:			
Calculations from RG-348 Pages 3-27 to 3-30	Page 3-29 Equation 3.3: $L_M = 27.2(A_H \times P)$			
LM TOTAL PROJECT = $A_N = P = P$	Required TSS removal resulting from the proposed development = 80% of incre Net increase in impervious area for the project Average annual precipitation, inches	eased load		
Site Data	Determine Required Load Removal Reced on the Entire Project			
Site Data	County =	Bexar		
	Total project area included in plan * = Predevelopment impervious area within the limits of the plan * =	1.915	acres	
	Total post-development impervious area within the limits of the plan* =	0.782	acres	
	P =	30	inches	
	L <sub>M TOTAL PROJECT</sub> =	638	lbs.	
	Number of drainage basins / outfalls areas leaving the plan area =	4		
. Drainage Basin Parameters	(This information should be provided for each basin):			
	Drainage Basin/Outfall Area No. =	Α		
	Total drainage basin /outfall area	0.680	Berpe	
	Predevelopment impervious area within drainage basin/outfall area =	0.000	acres	
	Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area =	0.606	acres	
	L <sub>M THIS BASIN</sub> =	494	lbs.	
. Indicate the proposed BMP	Code for this basin.			
	Proposed BMP =	CS 80	abbreviation	
Calculate Maximum TSS Los	(1 - 1) for this Drainage Basin by the selected BMP Type	89	percent	
	RG-348 Page 3-33 Equation 3.7: LR = (BMP efficiency) x P x (A <sub>1</sub> x 34.6 + A <sub>2</sub> x 0.54)			
$\mathbf{A}_{C} = \mathbf{A}_{T} = \mathbf{A}_{P} = \mathbf{A}_{P}$	Total On-Site drainage area in the BMP catchment area Impervious area proposed in the BMP catchment area Pervious area remaining in the BMP catchment area TSS Load removed from this catchment area by the proposed BMP			
	A., =	0.680	acres	
	$A_i =$	0.606	acres	Sec.
	$A_p = L_o =$	0.07	acres lbs.	ATE
Calculate Fraction of Annua	Duroff to Treat the during a basis / outful area	301	103.	35
Calcolate Fraction of Annua	Remon to Treat the dramage basin / outrain area		n .	#*/ /
	Desired $L_{M THIS BASIN} = F = F$	545 0.97	Ibs.	MICHAE
. Calculate Treated Flow requ	ired by the BMP Type for this drainage basin / outfall area			2
algulations from DC == 0				3.20:11
ages Section 3.4.14	Offsite impervious cover draining to BMP =	0.00	acres	"In Sein
2011 - 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Impervious fraction of off-site area =	0.00		11111
	Off-site Runoff Coefficient =	0.00		2
	Rainfall Depth =	3.00	inches	1-
	Effective Area =	0.73	acres	
	On-site Water Quality Values -	5980	cubic fact	3/
	Off-site Water Quality Volume =	0	cubic feet	-1
	Storage for Sediment = Total Capture Volume (required water quality volume) > 1 an -	1078	cubic feet	
and the second se	=	0400	cubic feet	
. Storm Filter				
esigned as Required in RG-348	Cartridge Infiltration Rate =	1	GPM per ft <sup>2</sup>	
ection 3.4.14	Cartridge Height = Cartridge Canacity =	27	GPM	
	service experts -		1000	
	StormFilter Equalization Design			
	Flow Rate for Flow-Through Configuration w/ Equalization =	0.63	cfs	
	Number of Cartridges for Flow-Through Configuration w/ Equalization =	25		

Volume for Flow-Through Configuration w/ Equalization = Minimum Required Equalization Storage (Calculated Volume +20%) =

582 699

cubic feet cubic feet



Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality TSS Removal Calculations

> Project Name: Rosenblatt Expansion Date Prepared: 2/28/2024

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =	D	
Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area =	0.129 0.000 0.063	acres acres acres
Post-development impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$	0.49 51	lbs.
		unnun





# EARTHWORK NOTES:

1. PREPARE SUBGRADE BY EXCAVATION OR EMBANKMENT FOR BUILDING SLABS, WALKS AND PAVEMENTS. EXCAVATION AND BACKFILL FOR UNDERGROUND UTILITIES AND DRAINAGE FILL COURSE FOR SUPPORT OF BUILDING SLABS ARE INCLUDED IN THIS ITEM. 2. EXECUTION:

& CABLE TV EASEMENT

(VOL. 9521, PG. 42)

RESUBDIVISION OF WOODS OF DEERFIELD SUBDIVISION

UNIT 1

VOLUME 9521, PAGE 134

DEED AND PLAT RECORDS,

BEXAR COUNTY, TEXAS

BLOCK

LOT 50

LOT 5

5' ELECTRIC, TELEPHONE & CABLE

ZONE AE

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- ALL EXCAVATION, BACKFILL AND COMPACTION SHALL BE PERFORMED AS SHOWN IN THE PLANS AND APPLICABLE GEOTECHNICAL REPORT FOR THE SITE. 3. EXCESS MATERIAL RESULTING FROM EXCAVATION OPERATIONS IS THE PROPERTY OF THE EXCAVATION
- CONTRACTOR. APPROPRIATE DISPOSAL SHALL BE AT SAID CONTRACTOR'S EXPENSE.
- 4. ALL EXCAVATION SHALL BE PERFORMED AS DIRECTED IN THE PLANS AND IN COMPLIANCE WITH OSHA STANDARDS. 5. OWNER WILL ENGAGE, AT THE OWNER'S COST, SOIL TESTING AND INSPECTION SERVICE IN ACCORDANCE WITH
- MATERIAL TESTING SPECIFICATION TO VERIFY COMPLIANCE WITH THE PLANS & SPECIFICATIONS. REPLACEMENT AND RETESTING OF DEFICIENT WORK SHALL BE DONE BY EXCAVATION CONTRACTOR AT NO ADDITIONAL COMPENSATION. 6. DATA ON SUBSURFACE CONDITIONS, IF AVAILABLE, WILL BE MADE AVAILABLE TO THE CONTRACTOR BY THE OWNER AS REQUESTED. THE OWNER MAKES NO WARRANTY AS TO THE CORRECTNESS OF THESE REPORTS PREPARED BY
- OUTSIDE CONSULTANTS. THE CONTRACTOR MAY, AT HIS OWN EXPENSE, PERFORM ADDITIONAL TEST BORINGS. 7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL AFFECTED UTILITY COMPANIES. THIS SHALL INCLUDE LOCATION OF FACILITIES, PROTECTION DURING CONSTRUCTION, DAMAGE REPAIRS AND DISRUPTION OF SERVICE.
- 8. THE EXCAVATION IS UNCLASSIFIED, AND CONTRACTOR SHALL PERFORM EXCAVATION TO THE ELEVATIONS INDICATED IN THE PLANS, REGARDLESS OF CHARACTER OF MATERIAL WITH NO ADDITIONAL COMPENSATION FROM THE OWNER. USE OF EXPLOSIVE IS PROHIBITED.
- 9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING BARRICADES REQUIRED TO WARN AND/OR PREVENT ACCESS TO CONSTRUCTION AREA. 10. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FACILITIES FROM DAMAGE.
- 11. EARTHWORK SHALL BE PERFORMED IN COMPLIANCE WITH LANDSCAPE PROTECTION REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (CITY, COUNTY, TXDOT, ETC.).
- 12. OVER-EXCAVATION IS NONCOMPENSABLE, AND SHALL BE BACKFILLED AND COMPACTED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COMPENSATION.
- 13. CONTRACTOR SHALL PROVIDE ALL LABOR AND EQUIPMENT NECESSARY TO PROPERLY DEWATER EXCAVATION AREAS AS REQUIRED.
- 14. EXCAVATED MATERIAL SHALL BE STOCKPILED WHERE DIRECTED IN THE PLANS. STOCKPILE SHALL BE MAINTAINED IN COMPLIANCE WITH ALL RELEVANT POLLUTION PREVENTION PLANS.
- 15. EARTHWORK SHALL BE PERFORMED TO THE TOLERANCES SHOWN IN THE PLANS AND/OR SPECIFIED IN THE APPLICABLE GEOTECHNICAL REPORT FOR THE PROJECT.
- 16. TRENCHES SHALL BE BACKFILLED ONLY AFTER INSPECTION AND APPROVAL OF THE TESTING LAB. BACKFILL MATERIAL AND PROCEDURES FOR TRENCHES SHALL BE IN COMPLIANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION 2014 STANDARD SPECIFICATION FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES, ITEM 400 - EXCAVATION AND BACKFILL FOR STRUCTURES.

# **GRADING NOTES:**

- 1. ALL SIDEWALKS, STRIPED PEDESTRIAN WALKS, OR ANY OTHER PEDESTRIAN PATH OF TRAVEL SHALL BE 2% MAX CROSS SLOPE.
- 2. CHANGE IN DIRECTIONS AT ANY PEDESTRIAN ROUTE, ACCESSIBLE OR OTHERWISE, SHALL BE BE AT 2% MAX
- SLOPE ANY DIRECTION. 3. ACCESSIBLE PARKING SPACES AND ASSOCIATED ACCESS AISLES SHALL BE 2% MAX SLOPE IN ANY DIRECTION.
- 4. DWELLING UNIT PORCH LANDINGS SHALL BE 2% MAX SLOPE IN ANY DIRECTION. 5. ANY CHANGE IN LEVEL EXPERIENCED FROM ONE GROUND/FLOOR SURFACE TO AN ADJOINING GROUND/FLOOR SURFACE, SUCH AS ENTRY FROM DWELLING UNIT PORCHES ACROSS THRESHOLD AND INTO THE DWELLING UNIT, SHALL BE LIMITED TO 1/4" (OR 1/2" IF BEVELED 1:2).
- 6. CURB RAMPS MUST NOT EXCEED THE MAXIMUM SLOPE OF 1V:12H (8.33%) SLOPE SO RAMP LENGTH CAN EXCEED 6 FEET TO TRANSITION A MAXIMUM 6" HIGH DROP/CURB. 7. SEE LANDSCAPE AND IRRIGATION PLANS FOR ALL PROPOSED LANDSCAPE AND FINISHED NATURAL GROUND
- AREAS. IF LANDSCAPE PLANS ARE NOT PROVIDED, CONTRACTOR SHALL RESOD EXISTING GRASS AREAS AND/OR RESTORE EXISTING LANDSCAPE AREAS. 8. CONTRACTOR AND SUBCONTRACTORS SHALL CONTRACT WITH SURVEYOR TO VERIFY PROJECT ELEVATIONS AND
- BENCHMARK ELEVATION(S) PRIOR TO CONSTRUCTION. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY BOTH VERTICAL AND HORIZONTAL ALIGNMENT. ALL FINISHED EARTHEN GRADES SHALL NOT EXCEED 3:1 (H:V) SLOPE.

# HOT MIX ASPHALT PAVEMENT NOTES:

- 1. PROVIDE NECESSARY LABOR AND MATERIALS TO INSTALL THE HOT MIX ASPHALT PAVING IN LOCATION AS SHOWN ON THE PLANS, USING DESIGN & SPECIFICATIONS FROM PROJECT SPECIFIC GEOTECHNICAL REPORT (BY OTHERS). REFER TO GEOTECHNICAL REPORT FOR ALL ASPECTS OF ASPHALT PAVEMENT DESIGN INCLUDING BUT NOT LIMITED TO: SUBGRADE PREPARATION, AGGREGATE, ASPHALT MATERIALS, MINERAL FILLER, PRIME COAT, TACK COAT AND FINAL ASPHALT PAVING SURFACE.
- 2. ALL ASPHALT MUST MEET A RETAINED STRENGTH OF AT LEAST 70% ON THE TXDOT 531-C TEST OR HAVE ALL LIMESTONE AGGREGATE. IF SILICEOUS AGGREGATES (WHICH INCLUDE GRAVEL, CRUSHED GRAVEL OR GRANITE) ARE USED, ADD HYDRATED LIME (AT LEAST 1%) OR ANTI-STRIP AGENT TO THE MIX TO MEET THE RETAINED STRENGTH REQUIREMENTS. THE MIXTURE MUST BE DESIGNED FOR 97% OF OPTIMUM LABORATORY DENSITY. ASPHALT GRADE SHALL BE PG 64-22.
- 3. EXECUTION:
- A. START OF THIS WORK ITEM INDICATES ACCEPTANCE BY THE CONTRACTOR OF THE SUBGRADE PREPARATION.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FINAL RESULTS. B. CONTRACTOR SHALL ESTABLISH AND MAINTAIN REFERENCE POINTS TO HOLD PROPER ELEVATIONS AND GRADES.
- ALL PAVEMENT SHOULD BE WITHIN 0.5 INCH OF PROPOSED GRADES. C. UNLESS OTHERWISE SHOWN ON THE PLANS, RECOMMENDED BY THE GEOTECHNICAL ENGINEER OR APPROVED BY THE ENGINEER, MATERIALS AND INSTALLATION OF SUCH SHALL COMPLY WITH THE FOLLOWING ITEMS WITHIN THE TEXAS DEPARTMENT OF TRANSPORTATION 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES:
- \* ITEM 247 FLEXIBLE BASE, GRADE 1 OR 2. \* ITEM 340 - HOT MIX ASPHALTIC CONCRETE PAVEMENT. HMAC SHOULD ACHIEVE AT LEAST 70%
- STRENGTH WHEN TESTED IN ACCORDANCE WITH TEX 531-C. 4. IN PLACE COMPACTED THICKNESS WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING ALLOWABLE
- VARIATION FROM REQUIRED THICKNESS: \* HMAC SURFACE COURSE: 1/4", PLUS OR MINUS
- \* SURFACE SMOOTHNESS: TEST FINISHED SURFACE OF EACH ASPHALT CONCRETE COURSE FOR SMOOTHNESS, USING 10' STRAIGHTEDGE APPLIES PARALLEL WITH AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREA. SURFACE SMOOTHNESS WILL NOT BE ACCEPTABLE IS THE WEARING COURSE SURFACE EXCEEDING 3/16".
- 5. THE INITIAL QUALITY CONTROL TESTING SHALL BE PERFORMED AT THE OWNER'S COST. ANY NECESSARY REPAIRS OR REPLACEMENTS, ALONG WITH ADDITIONAL TESTING, SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. TESTING PROCEDURES SHALL BE IN COMPLIANCE WITH OWNER'S STANDARD SPECIFICATION FOR MATERIAL TESTING
- 6. CONTRACTOR SHALL ENSURE THE FOLLOWING:
- A. TESTING LAB TO VERIFY THICKNESS OF BASE MATERIAL INSTALLED. B. VERIFY APPROVED MIX DESIGN MATCHES DELIVERY TICKETS IN FIELD.
- C. RECORD ARRIVAL TIMES OF TRUCKS AND MIX TEMPERATURE UPON ARRIVAL RECORD LIST OF EQUIPMENT USED TO LAY AND COMPACT ASPHALT. D. RECORD AIR TEMPERATURE & MIX TEMPERATURE AT TIME OF LAYDOWN.
- E. GEO-TECH ENGINEER OF RECORD TO MAKE MIN. OF THREE SITE VISITS.
- F. ASPHALT JOB MIX FORMULA APPROVED IN ADVANCE (WITH ACCOMPANYING LAB TEST DATA) MINIMUM 21 DAYS PRIOR TO PAVING. THIS INCLUDES VERIFYING THE AGGREGATE MEETS ITEM 340 REQUIREMENTS AND ALL OTHER SPECIFICATIONS REQUIREMENTS.
- 7. HMAC SURFACE COURSE SHALL BE ORIENTED SUCH THAT JOINTS OR SEAMS ARE PARALLEL WITH THE DIRECTION OF TRAFFIC.

### TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL

DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA

IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, CURRENT O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



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LOT 2

LOT 3







TBPE FIRM# F-3512

of L

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# **CURVE TABLE**

CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	2740.00'	307.97'	6°26'24"	S 13°27'22"W	307.81'
C2	15.00'	23.32'	89°04'29"	S 62°23'40" W	21.04'
C3	230.00'	60.58'	15'05'29"	N 80°36'45" W	60.41'

# LEGEND

HUEBN

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AD

<ul> <li>652</li></ul>	PROPERTY LINE EXISTING CONTOUR LINE IN FEET EXISTING SPOT ELEVATION (IN FEET) EXISTING CONC. CURB EXISTING CONC. CURB EXISTING SANITARY SEWER LINE (MATERIAL) EXISTING WATER LINE (MATERIAL) EXISTING OVERHEAD/UNDERGROUND ELECTRIC EXISTING OVERHEAD/UNDERGROUND ELECTRIC EXISTING WOOD FENCE EXISTING/PROPOSED FIRE HYDRANT EXISTING/PROPOSED UTILITY POLE EXISTING LIGHT POLE EXISTING/PROPOSED WATER VALVE EXISTING/PROPOSED WATER METER EXISTING/PROPOSED CLEAN OUT	DATE	DONAL PROX KSS /C	OF TELAS D OROIAN 0244 ENSED DNAL ENG NAL ENG 3-18-2	2024
	EXISTING/PROPOSED SEWER MANHOLE	DA			
STMH O STMH	EXISTING/PROPOSED STORM MANHOLE			U u	
	EXISTING CONCRETE/ASPHALT			<b>IN</b>	
and a construction of the	EXISTING TREE			0, TX 5728	5)
	PROPOSED CONCRETE/ASPHALT			NTONIC 340-3	
	PROPOSED CONCRETE DUMPSTER PAD				I NO. F S RESE
COMPACT	PROPOSED CONCRETE SLOTTED CURB PROPOSED CONCRETE CURB RETAINING WALL PROPOSED COMPACT PARKING PROPOSED 2'x2'x4' LIMESTONE BLOCKS			<b>JLTING</b> TE. 102 SAI 70 FAX: ()	(REGISTRATION 9, INC., ALL RIGHTS
<u> </u>	PROPOSED CONTOUR IN FEET			556'S	FIRM Grouf
 F = =	DRAINAGE FLOW ARROWS (GRADE TO DRAIN) ACCESSIBLE AREA				RING TING (
6	(2% MAXIMUM SLOPE ANY DIRECTION)				SINEE
× 712.00	PROPOSED SPOT ELEVATIONS (IN FEET)	NOIL			D ENC
2"W	PROPOSED WATER LINE	CRIP			rerei 24- Al
<b>— — — —</b> 6"SS <b>— — — —</b>	PROPOSED SANITARY SEWER	DES			EGIST HT 202
— · —OE/UE— · —	(UE) ELECTRIC, PHONE, CABLE, DATA SECONDARY TO BUILDING (SEE MEP PLANS)	NOI			AS RI PYRIGH
	PROPOSED STORM PIPE	KEVIS			A TEX © CoF
	PROPOSED FIRE DEPARTMENT CONNECTION				10
G	PROPOSED GAS LINE	E	-		
Т	PROPOSED PAD MOUNTED TRANSFORMER				
BEN TEMPORARY TEMPORARY NOTE: NOTED TBM'S BASED ON SU CONTRACTOR TBM'S PRIOR TBM'S SHALL	CHMARK BM #1: MAGNAIL W/ WASHER ELEV.=951.36 BM #2: MAGNAIL W/ WASHER ELEV.=955.28 (TEMPORARY BENCHMARKS) ON THESE PLANS ARE JRVEY INFORMATION PROVIDED TO ENGINEER. TO FIELD VERIFY ACCURACY OF ANY NOTED/SUGGESTED TO CONSTRUCTION. IF DESIRED, REQUESTED ADDITIONAL BE COORDINATED WITH LISTED PROJECT SURVEYOR AS A	CDADINC & DDAINACE /DEDMANI	POLLUTION ABATEMENT PLAN	ROSENBLATT LAW FIRM EXPANSION 16731 HUEBNER RD. SAN ANTONIO, TX 78248	DRAWN/CHECK DATE: JOB # DWG NAME: 31: AL/DO 3/18/24 074-89 074-89 (C1) GRPD_PPAP
SEPARATE PA	Y ITEM.	`	CU	ו הההת	
LEG	AL DESCRIPTION	:	2H		

1.80 ACRES LOT 1, BLOCK 1, N.C.B. 18908 HRDW PROPERTY DEVELOPMENT, LTD. VOLUME 9597, PAGE 164, D.P.R. PLAT No. 070071



### **STUB INFORMATION**

PIECE	STUB INVERT	SYSTEM INVERT
18"Ø STUB C1	948.00	948.00
18"Ø STUB E1	948.00	948.00
12"Ø STUB G1	948.10	948.00

RISER INFORMATION						
PIECE RIM ELEV. SYSTEM						
18"Ø RISER D1	951.15	948.00				
18"Ø RISER F1	951.05	948.00				

EOR TO CONFIRM ALL ELEVATIONS

18"Ø BULKHEAD H1

• ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.

• ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD (EOR) PRIOR TO RELEASING FOR FABRICATION.

• ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.

• ALL RISERS AND STUBS ARE 2% " x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE

• RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR.

• QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.

• ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT

	PROJECT No.:	SEQ. I	No.:	DATE:
N SYSTEM - 778912-010	778912 0		10	3/4/2024
	DESIGNED:		DRAW	/N:
VI EXPANSION	RKD		CER	
	CHECKED:		APPR	OVED:
, 1	RKD			RKD
)N UDS	SHEET NO .:			
	P1	C	)F	5



CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN,	AXLE LOADS (kips)					
INTOTILO	18-50	50-75	75-110	110-150		
		MINIMUM C	OVER (FT)			
12-42	2.0	2.5	3.0	3.0		
48-72	3.0 3		3.5	4.0		
78-120	3.0	3.5	4.0	4.0		
126-144	3.5	4.0	4.5	4.5		

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

### **CONSTRUCTION LOADING DIAGRAM**

NOT TO SCALE

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

### <u>SCOPE</u>

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED THE PROJECT PLANS.

### MATERIAL

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

### PIPE

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

MATERIAL SPECIFICATION

NOT TO SCALE

e design and information shown on this drawing is provided a service to the project owner, engineer and contractor by ntech Engineered Solutions LLC ("Contech"). Neither this					O%NTEOU'		
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ntech. Failure to comply is done at the user's own risk and tech expressly disclaims any liability or responsibility for bure					ENGINEERED SOLUTIONS LLC	CMP DETENTION SYSTEMS	ROSENBLATT LAW FIRM
iscrepancies between the supplied information upon which					www.ContechES.com	CONTECH	SAN ANTONIO
drawing is based and actual field conditions are encountered site work progresses, these discrepancies must be reported Contech immediately for re-evaluation of the design. Contech					9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069	PROPOSAL	SITE DESIGNATIO
epts no liability for designs based on missing, incomplete or occurate information supplied by others.	MARK	DATE	REVISION DESCRIPTION	BY	800-338-1122 513-645-7000 513-645-7993 FAX	DRAWING	



PLAN



FRONT

48"Ø to 90"Ø FITTING REINFORCEMENT MAY BE REQUIRED BASED ON HEIGHT OF COVER AND LIVE LOAD CONDITION

### **TYPICAL MANWAY DETAIL**

NOT TO SCALE



		v
HANDLING	AND ASSEIVIDE	. Г.

	SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE
IN	NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA)

INSTALLATION

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. SECTION 26. DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

> ANTI-FLOTATION PROVISIONS DUE TO HIGH GROUNDWATER OR OTHER FLOTATION CONCERNS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

	PROJECT No.:	SEQ. I	No.:	DATE:
N SYSTEM - 778912-010	778912	010		3/4/2024
	DESIGNED:		DRAW	'N:
I EXPANSION	RKD			CER
	CHECKED:		APPR	OVED:
<sup>'</sup> , 1 <b>^</b>	RKD			RKD
)N: UDS	SHEET NO .:			-
	P2	0	F	5



	TABLE 2:								
		XFILTRATION <sup>®</sup> JOINT STANDARD BACKFILL SPECIFICATIONS							
	MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION						
1	FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE ≤ 12": D + 16" PIPE > 12": 1.5D + 12"	MINIMUM EMBANKMENT					
2	FOUNDATION	AASHTO 26.5.2 - PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED T ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDA	O A UNIFORM AND STABLE GRADE. IN THE					
3)	BEDDING	AASHTO M 43: 3, 357, 4, 467, 5, 56, 57	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLA MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEF AASHTO SOIL CLASSIFICATIONS A1, A2, OR	CED ON THE TRENCH BOTTOM OF A RELA TH. THE BEDDING MATERIAL MAY BE SUIT A3 WITH MAXIMUM PARTICLE SIZE OF 3" I					
4			CORRUGATED METAL PIPE						
5	BACKFILL	FREE-DRAINING, ANGULAR, WASHED-STONE PER AASHTO M 43: 3, 357, 4, 467, 5, 56, 57 OR APPROVED EQUAL *	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLA LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BA WHERE CONVENTIONAL COMPACTION TESTING IS NOT PRACTICAL, THE MATERIAL S **IN AREAS WITH HIGH WATER TABLE FLUCTUATIONS THAT INTERACT WITH THE F	CE TO ALLOW FOR PROPER COMPACTION BACKFILL SHALL BE PLACED SUCH THAT CKFILL SHOULD BE ADVANCED ALONG TH HALL BE MECHANICALLY COMPACTED UN THE COMPACTOR. PIPE ZONE, CONSIDER INSTALLING A GEOT					
3	COVER MATERIAL	UP TO MIN. COVER - <b>AASHTO M 145: A-1, A-2, A-3</b> ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMIN	OUS, GRANULAR ROADBASE MATERIAL WI					
	RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVE THE PROJECT PLANS AND SF	R THE CMP. FINAL BACKFILL MATERIAL SE PECIFICATIONS PER THE ENGINEER OF RE					
	SIDE GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF E IF NO STONE BEDDING IS	CAVATION TO PREVENT SOIL MIGRATION USED, THEN SIDE GEOTEXTILE IS REQUIR					

NOTES:

.

GEOTEXTILE BETWEEN LAYERS

(B)

TABLE 1:

DIAMETER, D

6"-10"

12"-48"

>48"-96"

>96"

PAVEMENT.

LIMITS OF THE TABLE

FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER /2 BUT NO LESS THAN 12" FOR DIAMETERS <72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 36". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.

APPROVED REGIONAL EQUIVALENTS FOR SECTION 5 INCLUDE CA-7, MIDOT 6AA, 6A, OR 5G, PROVIDED THEY MEET THE PARTICLE SIZES INDICATED.

NONE

MANUFACTURER RECOMMENDED BACKFILL

NOT TO SCALE

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If discrepancies between the supplied information upon which					www.ContechES.com	CONTECH	SAN ANTONIO
the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech					9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069	PROPOSAL	SITE DESIGNATION
accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.	MARK	DATE	REVISION DESCRIPTION	BY	800-338-1122 513-645-7000 513-645-7993 FAX	DRAWING	

INSTALLATION NOTES

- 1. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.
- 2. OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.
- 3. IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED OVER THE UPPER HALF OF THE PIPE. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE: PIPE < 24": 3.0D PIPE 24" - 144": D + 4'0" PIPE > 144": D + 10'0" E EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ILL MATERIAL APPROVED BY THE ENGINEER OF RECORD. ATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR TABLE OPEN GRADED GRANULAR BEDDING CONFORMING TO PER AASHTO 26.3.8.1 I WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 8" +/-THERE IS NO MORE THAN A TWO LIFT (16") DIFFERENTIAL E LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. TIL NO FURTHER YIELDING OF MATERIAL IS OBSERVED UNDER TEXTILE SEPARATION LAYER TO PREVENT SOIL MIGRATION. ITHIN MIN COVER LIMITS ELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW CORD. WHEN STONE BEDDING IS USED. RED. IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.

	PROJECT No.:	SEQ. I	No.:	DATE:
N SYSTEM - 778912-010	778912	010		3/4/2024
	DESIGNED:		DRAWN:	
I EXPANSION	RKD		CER	
	CHECKED:		APPR	OVED:
<i>י</i> , <i>ו</i>	RKD			RKD
N: UDS	SHEET NO .:			
	P3	0	)F	5


#### PLAIN END CMP RISER PIPE

#### GENERAL NOTES:

- 1. DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.
- 2. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
- 3. BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.
- 4. IF RISER HAS A HEIGHT OF COVER OF 10' OR MORE, USE A SLIP JOINT.
- 5. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
  - 12" THRU 48" 1-PIECE
  - 54" 2-PIECES
- 6. ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.
- 7. MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.
- 8. DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.
  - **12" RISER BAND DETAIL** NOT TO SCALE



CONNECTION DETAIL (SBBS)

#### 2 2/3"x1/2" RE-ROLLED END HEL-COR PIPE

GENERAL NOTES:

- 3. BANDS ARE SHAPED TO MATCH THE PIPE-ARCH WHEN APPLICABLE.
- 4. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
  - 12" THRU 48" 1-PIECE
  - 54" THRU 96" 2-PIECES
  - 102" THRU 144" 3-PIECES
- 5. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
- 6. ALL CMP IS REROLLED TO HAVE ANNULAR END CORRUGATIONS OF 2 2/3"x1/2"
- 7. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- 8. ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

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Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for					ENGINEERED SOLUTIONS LLC	CMI	P DETENTION SYSTEMS	ROSENBLATT LAW FIRI
such use. If discrepancies between the supplied information upon which					www.ContechES.com		CONTECH	SAN ANTONIC
the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech					9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069		PROPOSAL	SITE DESIGNATIO
accepts no liability for designs based on missing, incomplete or inaccurate information sumplied by others	MARK	DATE	REVISION DESCRIPTION	BY	800-338-1122 513-645-7000 513-645-7993 FAX		DRAWING	

1. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.

2. BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.

#### H-12 HUGGER BAND DETAIL

NOT TO SCALE

		_		
	PROJECT No .:	SEQ. I	No.:	DATE:
N SYSTEM - 778912-010	778912	010		3/4/2024
	DESIGNED:	-	DRAW	/N:
VI EXPANSION	RKD			CER
	CHECKED:		APPR	OVED:
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DRAWING

800-338-1122 513-645-7000 513-645-7993 FAX

o liability for designs based on missing, incomplete

MARK

DATE

REVISION DESCRIPTION

ΒY

SITE DESIGNATIO

REINFORCING TABLE						
A	ВØ	REINFORCING	**BEARING PRESSURE (PSF)			
4'Ø	26"	#5 @ 10" OCEW	2,540			
4'x4'		#5 @ 10" OCEW	1,900			
4'-6"Ø	32"	#5 @ 10" OCEW	2,260			
4'-6" x 4'-6"		#5 @ 9" OCEW	1,670			
5'Ø	38"	#5 @ 9" OCEW	2,060			
5' x 5'		#5 @ 8" OCEW	1,500			
5'-6"Ø	44"	#5 @ 8" OCEW	1,490			
5'-6" x 5'-6"		#5 @ 8" OCEW	1,370			
6'Ø	50"	#5 @ 7" OCEW	1,210			
6' x 6'		#5 @ 7" OCEW	1,270			

	PROJECT No.:	SEQ. I	No.:	DATE:
N SYSTEM - 778912-010	778912	01	10	3/4/2024
	DESIGNED:		DRAW	/N:
M EXPANSION	RKD			CER
	CHECKED:		APPR	OVED:
, 1	RKD			RKD
DN: UDS	SHEET NO .:	0		F
	P.5	0	)F	2

# Contech<sup>®</sup> CMP Detention Inspection and Maintenance Guide

Underground stormwater detention and infiltration systems must be inspected and maintained at regular intervals for purposes of performance and longevity.

#### Inspection

Inspection is the key to effective maintenance of CMP detention systems and is easily performed. Contech recommends ongoing, annual inspections. Sites with high trash load or small outlet control orifices may need more frequent inspections. The rate at which the system collects pollutants will depend more onsite specific activities rather than the size or configuration of the system.

Inspections should be performed more often in equipment washdown areas, in climates where sanding and/or salting operations take place, and in other various instances in which one would expect higher accumulations of sediment or abrasive/ corrosive conditions. A record of each inspection is to be maintained for the life of the system.

#### Maintenance

CMP detention systems should be cleaned when an inspection reveals accumulated sediment or trash is clogging the discharge orifice. Accumulated sediment and trash can typically be evacuated through the manhole over the outlet orifice. If maintenance is not performed as recommended, sediment and trash may accumulate in front of the outlet orifice. Manhole covers should be securely seated following cleaning activities. Contech suggests that all systems be designed with an access/inspection manhole situated at or near the inlet and the outlet orifice. Should it be necessary to get inside the system to perform maintenance activities, all appropriate precautions regarding confined space entry and OSHA regulations should be followed.

Annual inspections are best practice for all underground systems. During this inspection if evidence of salting/de-icing agents is observed within the system, it is best practice for the system to be rinsed, including above the spring line soon after the spring thaw as part of the maintenance program for the system.

Maintaining an underground detention or infiltration system is easiest when there is no flow entering the system. For this reason, it is a good idea to schedule the cleanout during dry weather.

The foregoing inspection and maintenance efforts help ensure underground pipe systems used for stormwater storage continue to function as intended by identifying recommended regular inspection and maintenance practices. Inspection and maintenance related to the structural integrity of the pipe or the soundness of pipe joint connections is beyond the scope of this guide.





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CMP MAINTENANCE GUIDE 10/19 PDF



COUNT AND L	OCALLY	APPROVE	D SURFACE
INLET CONFIG	URATION.		
/		LOW DRO	DP /
	-	1.8'	
Bom/ft*	2 00	Tft"	som/ft <sup>2</sup>

10

DAT	AREQ	UIREMEN	ITS	S
JRE ID	- AREA	"A"		1
UALITY	FLOW RA	TE (cfs)-TO	TAL	0.63
OW RA	6.51			
PERIO		25-YR		
RTRIDO		25		
GE FLC		0.025		
YPE (C	SF, PERLI	TE, ZPG)		ZPG
TA:	1.E.	MATERIAL	DI	AMETER
PE*	947.05	HDPE		24"
PIPE*	18"			
ATION	52.25			

#### NOTES/SPECIAL REQUIREMENTS: CONTRACTOR TO COORDINATE WITH

7.5

IANUFACTURER FOR ADDITIONAL SPECIFICATIONS.

CONTRACTOR TO REFER TO CONSTRUCTION PLANS FOR EXACT LOCATION, ELEVATIONS,

AND PLACEMENT OF DRAINAGE STRUCTURES.

RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME

TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM





**Rosenblatt Offices** 

Permanent Stormwater Section

### ATTACHMENT G

### INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

The following sheets include the inspection, maintenance, repair, and retrofit plans for the following;

- Storm Filter (Peak Diversion)
- Vegetative Filter Strips

It should be noted that the timing and procedures presented herein are general guidelines. Adjustments to the timing and procedures may have to be made depending on project specific characteristics as well as weather related conditions.

#### **Engineer** Certification:

I certify that the suggested inspection, maintenance, repair, and retrofit plans provided within ATTACHMENT G of the <u>PERMANENT STORMWATER SECTION</u> were prepared by the engineer designing the permanent BMPs and measures.

David Brodbeck, PE Print Name of Engineer

Signature of Engineer



June 8, 2017 Date



PROJECT NAME:	Rosenblatt Offices	
ADDRESS:	16731 Huebner Road	
CITY, STATE ZIP:	San Antonio, Texas 78148	

The StormFilter System should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend on site specific activities. Typical designs are intended for an annual maintenance cycle. The attached manufacturer recommended guidelines are included in the *Suggested Maintenance Plan and Schedule* and should be followed.

*Inspections:* Inspection of the storage component (and sedimentation manhole, if appropriate) should occur at a minimum of twice a year. It is recommended to wait 7-14 days after the last storm event, prior to making an inspection. This should allow for improved water clarity for observations in the storage facility. Sediment depth can be measured with a rod or other means. If sediment depth is greater than 1 foot, sediment removal in the storage facility is warranted.

**Cartridge Replacement:** Cartridges should initially be replaced annually. If inspection of the removed cartridges indicates that their life expectancy exceeds one year, a modified maintenance plan should be provided to TCEQ specifying the new replacement schedule. Cartridge replacement also may be required in the event of a chemical spill or due to excessive sediment loading from site erosion or extreme storms.

**Sediment Removal:** Sediment removal should occur before the accumulated sediment occupies 20% of the settling chamber. Typically includes cartridge replacement and sediment removal from the vault.

**Debris and Litter Removal:** Debris and Litter must be removed when its presence threatens the proper operation of the system.

Model:	: Location:							
Date	1	2	3	4	5	Maintenance Performed	Maintenance Personnel	Comments
	100 U							
						Contraction of the		
the fee			(Action)		1.334			
6.1460				00013				
	1228	e Const		Analista.				

#### StormFilter System Sample Inspection & Maintenance Log





Reasons for Maintenance:

- 1. Sediment loading on the vault floor is greater than 4"
- 2. Sediment loading on the top of the cartridge is greater than 1/4"
- Submerged Cartridge in greater than 4" of static water for more than 24 hours
   Plugged media
- 5. Pronounced scum line is greater than  $\frac{1}{4}$ " above top cap.

For more general guidelines, refer to Contech Stormwater Solutions Maintenance Decision Tree.

"Proper" disposal of accumulated silt shall be accomplished following the Texas Commission on Environmental Quality (TCEQ) and City of New Braunfels guidelines (if within jurisdiction of City of New Braunfels) and specifications.

After all inspections, results shall be recorded and maintained. Records should be made available on request by TCEQ and/or City of New Braunfels officials. Upon transfer of ownership or maintenance responsibility: The seller must inform the buyer of all requirements of the BMP maintenance. TCEQ must be notified and receive the form "TCEQ-10623 change in responsibility for maintenance on permanent Best Management Practices and Measures". In addition, TCEQ and the City of New Braunfels shall receive a signed, dated copy of this maintenance plan from the new owner.

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's entity having ownership or control of the property (such as without limitation, an owner's association, new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity assumes such obligation in writing or ownership is transferred.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Owner / Responsible Party:

Contact Person:		James Rosenblatt				
Entity:		Brentonwo	Brentonwoods Development, LLC			
Mailing Address:		16719 Huebner Road, Bldg 1				
City, State a	nd Zip:	San Anton	io, TX 78248			
Telephone:	210.56	32.2900	Facsimile:	210.562.2929		
Email:	james	@rosenblatt	lawfirm.com			

Signature of Owner/Responsible Party

April 5, 2017 Date



## StormFilter Inspection and Maintenance Procedures





#### **Maintenance Guidelines**

The primary purpose of the Stormwater Management StormFilter<sup>®</sup> is to filter and prevent pollutants from entering our waterways. Like any effective filtration system, periodically these pollutants must be removed to restore the StormFilter to its full efficiency and effectiveness.

Maintenance requirements and frequency are dependent on the pollutant load characteristics of each site. Maintenance activities may be required in the event of a chemical spill or due to excessive sediment loading from site erosion or extreme storms. It is a good practice to inspect the system after major storm events.

#### **Maintenance Procedures**

Although there are many effective maintenance options, we believe the following procedure to be efficient, using common equipment and existing maintenance protocols. The following two-step procedure is recommended::

#### 1. Inspection

• Inspection of the vault interior to determine the need for maintenance.

#### 2. Maintenance

- Cartridge replacement
- Sediment removal

#### **Inspection and Maintenance Timing**

At least one scheduled inspection should take place per year with maintenance following as warranted.

First, an inspection should be done before the winter season. During the inspection the need for maintenance should be determined and, if disposal during maintenance will be required, samples of the accumulated sediments and media should be obtained.

Second, if warranted, a maintenance (replacement of the filter cartridges and removal of accumulated sediments) should be performed during periods of dry weather.



In addition to these two activities, it is important to check the condition of the StormFilter unit after major storms for potential damage caused by high flows and for high sediment accumulation that may be caused by localized erosion in the drainage area. It may be necessary to adjust the inspection/ maintenance schedule depending on the actual operating conditions encountered by the system. In general, inspection activities can be conducted at any time, and maintenance should occur, if warranted, during dryer months in late summer to early fall.

#### **Maintenance Frequency**

The primary factor for determining frequency of maintenance for the StormFilter is sediment loading.

A properly functioning system will remove solids from water by trapping particulates in the porous structure of the filter media inside the cartridges. The flow through the system will naturally decrease as more and more particulates are trapped. Eventually the flow through the cartridges will be low enough to require replacement. It may be possible to extend the usable span of the cartridges by removing sediment from upstream trapping devices on a routine as-needed basis, in order to prevent material from being re-suspended and discharged to the StormFilter treatment system.

The average maintenance lifecycle is approximately 1-5 years. Site conditions greatly influence maintenance requirements. StormFilter units located in areas with erosion or active construction may need to be inspected and maintained more often than those with fully stabilized surface conditions.

Regulatory requirements or a chemical spill can shift maintenance timing as well. The maintenance frequency may be adjusted as additional monitoring information becomes available during the inspection program. Areas that develop known problems should be inspected more frequently than areas that demonstrate no problems, particularly after major storms. Ultimately, inspection and maintenance activities should be scheduled based on the historic records and characteristics of an individual StormFilter system or site. It is recommended that the site owner develop a database to properly manage StormFilter inspection and maintenance programs..



#### **Inspection Procedures**

The primary goal of an inspection is to assess the condition of the cartridges relative to the level of visual sediment loading as it relates to decreased treatment capacity. It may be desirable to conduct this inspection during a storm to observe the relative flow through the filter cartridges. If the submerged cartridges are severely plugged, then typically large amounts of sediments will be present and very little flow will be discharged from the drainage pipes. If this is the case, then maintenance is warranted and the cartridges need to be replaced.

**Warning**: In the case of a spill, the worker should abort inspection activities until the proper guidance is obtained. Notify the local hazard control agency and Contech Engineered Solutions immediately.

To conduct an inspection:

**Important:** Inspection should be performed by a person who is familiar with the operation and configuration of the StormFilter treatment unit.

- 1. If applicable, set up safety equipment to protect and notify surrounding vehicle and pedestrian traffic.
- 2. Visually inspect the external condition of the unit and take notes concerning defects/problems.
- 3. Open the access portals to the vault and allow the system vent.
- 4. Without entering the vault, visually inspect the inside of the unit, and note accumulations of liquids and solids.
- 5. Be sure to record the level of sediment build-up on the floor of the vault, in the forebay, and on top of the cartridges. If flow is occurring, note the flow of water per drainage pipe. Record all observations. Digital pictures are valuable for historical documentation.
- 6. Close and fasten the access portals.
- 7. Remove safety equipment.
- 8. If appropriate, make notes about the local drainage area relative to ongoing construction, erosion problems, or high loading of other materials to the system.
- 9. Discuss conditions that suggest maintenance and make decision as to whether or not maintenance is needed.

#### **Maintenance Decision Tree**

The need for maintenance is typically based on results of the inspection. The following Maintenance Decision Tree should be used as a general guide. (Other factors, such as Regulatory Requirements, may need to be considered)

- 1. Sediment loading on the vault floor.
  - a. If >4" of accumulated sediment, maintenance is required.
- 2. Sediment loading on top of the cartridge.
  - a. If > 1/4" of accumulation, maintenance is required.
- 3. Submerged cartridges.
  - a. If >4" of static water above cartridge bottom for more than 24 hours after end of rain event, maintenance is required. (Catch basins have standing water in the cartridge bay.)
- 4. Plugged media.
  - a. If pore space between media granules is absent, maintenance is required.
- 5. Bypass condition.
  - a. If inspection is conducted during an average rain fall event and StormFilter remains in bypass condition (water over the internal outlet baffle wall or submerged cartridges), maintenance is required.
- 6. Hazardous material release.
  - a. If hazardous material release (automotive fluids or other) is reported, maintenance is required.
- 7. Pronounced scum line.
  - a. If pronounced scum line (say  $\geq 1/4''$  thick) is present above top cap, maintenance is required.



#### Maintenance

Depending on the configuration of the particular system, maintenance personnel will be required to enter the vault to perform the maintenance.

**Important**: If vault entry is required, OSHA rules for confined space entry must be followed.

Filter cartridge replacement should occur during dry weather. It may be necessary to plug the filter inlet pipe if base flows is occurring.

Replacement cartridges can be delivered to the site or customers facility. Information concerning how to obtain the replacement cartridges is available from Contech Engineered Solutions.

**Warning**: In the case of a spill, the maintenance personnel should abort maintenance activities until the proper guidance is obtained. Notify the local hazard control agency and Contech Engineered Solutions immediately.

To conduct cartridge replacement and sediment removal maintenance:

- 1. If applicable, set up safety equipment to protect maintenance personnel and pedestrians from site hazards.
- 2. Visually inspect the external condition of the unit and take notes concerning defects/problems.
- 3. Open the doors (access portals) to the vault and allow the system to vent.
- 4. Without entering the vault, give the inside of the unit, including components, a general condition inspection.
- 5. Make notes about the external and internal condition of the vault. Give particular attention to recording the level of sediment build-up on the floor of the vault, in the forebay, and on top of the internal components.
- 6. Using appropriate equipment offload the replacement cartridges (up to 150 lbs. each) and set aside.
- 7. Remove used cartridges from the vault using one of the following methods:

#### Method 1:

A. This activity will require that maintenance personnel enter the vault to remove the cartridges from the under drain manifold and place them under the vault opening for lifting (removal). Disconnect each filter cartridge from the underdrain connector by rotating counterclockwise 1/4 of a turn. Roll the loose cartridge, on edge, to a convenient spot beneath the vault access.

Using appropriate hoisting equipment, attach a cable from the boom, crane, or tripod to the loose cartridge. Contact Contech Engineered Solutions for suggested attachment devices.

B. Remove the used cartridges (up to 250 lbs. each) from the vault.



**Important:** Care must be used to avoid damaging the cartridges during removal and installation. The cost of repairing components damaged during maintenance will be the responsibility of the owner.

- C. Set the used cartridge aside or load onto the hauling truck.
- D. Continue steps a through c until all cartridges have been removed.

#### Method 2:

- A. This activity will require that maintenance personnel enter the vault to remove the cartridges from the under drain manifold and place them under the vault opening for lifting (removal). Disconnect each filter cartridge from the underdrain connector by rotating counterclockwise 1/4 of a turn. Roll the loose cartridge, on edge, to a convenient spot beneath the vault access.
- B. Unscrew the cartridge cap.
- C. Remove the cartridge hood and float.
- D. At location under structure access, tip the cartridge on its side.
- E. Empty the cartridge onto the vault floor. Reassemble the empty cartridge.
- F. Set the empty, used cartridge aside or load onto the hauling truck.
- G. Continue steps a through e until all cartridges have been removed.

- 8. Remove accumulated sediment from the floor of the vault and from the forebay. This can most effectively be accomplished by use of a vacuum truck.
- 9. Once the sediments are removed, assess the condition of the vault and the condition of the connectors.
- 10. Using the vacuum truck boom, crane, or tripod, lower and install the new cartridges. Once again, take care not to damage connections.
- 11. Close and fasten the door.
- 12. Remove safety equipment.
- Finally, dispose of the accumulated materials in accordance with applicable regulations. Make arrangements to return the used <u>empty</u> cartridges to Contech Engineered Solutions.

#### **Related Maintenance Activities -**

#### Performed on an as-needed basis

StormFilter units are often just one of many structures in a more comprehensive stormwater drainage and treatment system.

In order for maintenance of the StormFilter to be successful, it is imperative that all other components be properly maintained. The maintenance/repair of upstream facilities should be carried out prior to StormFilter maintenance activities.

In addition to considering upstream facilities, it is also important to correct any problems identified in the drainage area. Drainage area concerns may include: erosion problems, heavy oil loading, and discharges of inappropriate materials.



#### **Material Disposal**

The accumulated sediment found in stormwater treatment and conveyance systems must be handled and disposed of in accordance with regulatory protocols. It is possible for sediments to contain measurable concentrations of heavy metals and organic chemicals (such as pesticides and petroleum products). Areas with the greatest potential for high pollutant loading include industrial areas and heavily traveled roads.

Sediments and water must be disposed of in accordance with all applicable waste disposal regulations. When scheduling maintenance, consideration must be made for the disposal of solid and liquid wastes. This typically requires coordination with a local landfill for solid waste disposal. For liquid waste disposal a number of options are available including a municipal vacuum truck decant facility, local waste water treatment plant or on-site treatment and discharge.





# Inspection Report

Date: Personnel:
Location:System Size:
System Type:     Vault     Cast-In-Place     Linear Catch Basin     Manhole     Other
Sediment Thickness in Forebay: Date:
Sediment Depth on Vault Floor:
Structural Damage:
Estimated Flow from Drainage Pipes (if available):
Cartridges Submerged: Yes No Depth of Standing Water:
StormFilter Maintenance Activities (check off if done and give description)
Trash and Debris Removal:
Minor Structural Repairs:
Drainage Area Report
Excessive Oil Loading: Yes No Source:
Sediment Accumulation on Pavement: Yes 🗌 No 🗌 Source:
Erosion of Landscaped Areas: Yes No Source:
Items Needing Further Work:
Owners should contact the local public works department and inquire about how the department disposes of their street waste residuals.
Other Comments:

Review the condition reports from the previous inspection visits.

## StormFilter Maintenance Report

Date:		Personnel:				
Location:		System Size:				
System Type:	Vault	Cast-In-Place	Linear Catch Basin 🗌	Manhole 🗌	Other	
List Safety Procedures and Equipment Used:						

## System Observations

Months in Service:				
Oil in Forebay (if present):	Yes	No		
Sediment Depth in Forebay (if present):				
Sediment Depth on Vault Floor:				
Structural Damage:				
Drainage Area Report				
Excessive Oil Loading:	Yes	No	Source:	
Sediment Accumulation on Pavement:	Yes	No	Source:	
Erosion of Landscaped Areas:	Yes	No	Source:	

## StormFilter Cartridge Replacement Maintenance Activities

Remove Trash and Debris:	Yes	No	Details:	
Replace Cartridges:	Yes	No	Details:	
Sediment Removed:	Yes	No	Details:	
Quantity of Sediment Removed (estimate	e?):			
Minor Structural Repairs:	Yes	No	Details:	
Residuals (debris, sediment) Disposal Me	thods:			
Notes:				



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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater and earth stabilization products. For information on other Contech division offerings, visit www.ContechES.com or call 800.338.1122.

#### Support

- Drawings and specifications are available at www.conteches.com.
- Site-specific design support is available from our engineers.

NOTHING IN THIS CATALOG SHOULD BE CONSTRUED AS A WARRANTY. APPLICATIONS SUGGESTED HEREIN ARE DESCRIBED ONLY TO HELP READERS MAKE THEIR OWN EVALUATIONS AND DECISIONS, AND ARE NEITHER GUARANTEES NOR WARRANTIES OF SUITABILITY FOR ANY APPLICATION. CONTECH MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, RELATED TO THE APPLICATIONS, MATERIALS, COATINGS, OR PRODUCTS DISCUSSED HEREIN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY CONTECH. SEE CONTECH'S CONDITIONS OF SALE (AVAILABLE AT WWW.CONTECHES.COM/COS) FOR MORE INFORMATION.

#### ATTACHMENT I Measures for Minimizing Surface Stream Contamination

Development of this site will increase the peak discharge rates above pre-development conditions due to the construction of the proposed expansion development however the accumulated site's storm water runoff will mainly be conveyed into a storm drain system and a *Contech StormFilter* filtration system downstream from the proposed development to treat the storm water runoff per TCEQ regulations. Since this is an expansion project of an existing office site development, storm water flows discharging from the filtration system will discharge in approximately the same manner that it did prior to the development as per City of San Antonio requirements.

# AGENT AUTHORIZATION

Modification to a Previously Approved Plan

	Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999	
_ James	D. Rosenblatt Print Name	,
	Its Managing Member	,
	I tie - <u>Owner</u> /President/Other	
of	Brettonwoods Properties, LLC	,
	Corporation/Partnership/Entity Name	
have authorized	Michael P. Sepeda, P.E. Print Name of Agent/Engineer	
of	ADA Consulting Group, Inc. Print Name of Firm	

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

I also understand that:

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

**SIGNATURE PAGE:** 

Date

Applicant's Signature

THE STATE OF § County of \_ Beka §

BEFORE ME, the undersigned authority, on this day personally appeared **Whe** KOSen be 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 26 day of 2019 day of 2023



Typed or Printed Name of Notary

,5 MY COMMISSION EXPIRES:

# **FEE APPLICATION**

Modification to a Previously Approved Plan

# **Application Fee Form**

Texas Commission on Environmental Quality									
Name of Proposed Regulated Entity: Rosenblatt Offices									
Regulated Entity Location: <u>16731 Huebner Rd.</u>									
Name of Customer: <u>James D. Rosenblatt</u>									
Contact Person: Michael P. Sepeda, P.E. Phone: 210-340-5670									
Customer Reference Number (if issued):CN <u>605399435</u>									
Regulated Entity Reference Number (if issued):RN <u>109734038</u>									
Austin Regional Office (3373)									
Hays Travis		🗌 Wil	liamson						
San Antonio Regional Office (3362)									
🛛 Bexar 🗌 Medina			alde						
Comal Kinney									
Application fees must be paid by check, certified che	ck, o	r money order, payabl	e to the <b>Texas</b>						
Commission on Environmental Quality. Your cancel	ed ch	neck will serve as your	receipt. This						
form must be submitted with your fee payment. Th	nis pa	yment is being submit	ted to:						
Austin Regional Office	🛛 Sa	an Antonio Regional Office							
Mailed to: TCEQ - Cashier	0	vernight Delivery to: TCEQ - Cashier							
Revenues Section	12	2100 Park 35 Circle							
Mail Code 214	В	uilding A, 3rd Floor							
P.O. Box 13088	Au	ustin, TX 78753							
Austin, TX 78711-3088	(5	12)239-0357							
Site Location (Check All That Apply):									
Recharge Zone Contributing Zo	one	Transit	ion Zone						
Type of Plan		Size	Fee Due						
Water Pollution Abatement Plan, Contributing Zone	2								
Plan: One Single Family Residential Dwelling		Acres	\$						
Water Pollution Abatement Plan, Contributing Zone	2								
Plan: Multiple Single Family Residential and Parks		Acres	\$						
Water Pollution Abatement Plan, Contributing Zone									
Plan: Non-residential	1.8 Acres	\$ 4,000							
Sewage Collection System	L.F.	\$							
Lift Stations without sewer lines	Acres	\$							
Underground or Aboveground Storage Tank Facility		Tanks	\$						
Piping System(s)(only)		Each	\$						
Exception		Each	\$						
Extension of Time	_	Each	\$						

Signature: 1

## **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 <i>,</i> 500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial,	< 1	\$3,000
institutional, multi-family residential, schools, and	1 < 5	\$4,000
other sites where regulated activities will occur)	5 < 10	\$5 <i>,</i> 000
	10 < 40	\$6 <i>,</i> 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 Piping System	Minimum Fee- Maximum Fee
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

#### **Exception Requests**

Project	Fee
Exception Request	\$500

#### Extension of Time Requests

Project	Fee
Extension of Time Request	\$150

# **CORE DATA FORM**

Modification to a Previously Approved Plan



# **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	r Submiss	sion ( <i>If other is c</i>	checked pleas	e descr	ribe in s	space <sub>l</sub>	provid	ed.)				
New Permit, Registration or Authorization ( <i>Core Data Form should be submitted with the program application.)</i>												
Renewal	Renewal (Core Data Form should be submitted with the renewal form)     Other											
2. Customer Reference Number ( <i>if issued</i> ) Follow this link to search					arch	3. Re	gulate	d Entity Reference	e Number <i>(</i> /	if issued)		
CN 605399435					numbe egistry*	<u>rs in</u> 	RN	1097	/34038			
SECTION II: Customer Information												
4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)												
New Custo	omer Legal Nan	ne (Verifiable wit	h the Texas S	Update Secretar	to Cus y of St	stomer ate or	Inform Texas	nation Comp	troller c	Change in f Public Accounts)	Regulated E	Entity Ownership
The Custor	mer Nan	ne submitted	here may	be up	datea	l auto	mati	cally	based	l on what is cu	rrent and	active with the
Texas Seci	retary of	f State (SOS)	or Texas C	Compti	roller	of Pl	ublic	Асса	ounts	(CPA).		
6. Customer	Legal Nar	ne (If an individua	l, print last nam	ne first: e	g: Doe,	John)		1	f new Cl	ıstomer, enter previ	ious Custom	er below:
Brettonwo	ods Pro	perties, LLC	c/o James	5 D. R	osen	blatt						
7. TX SOS/CF	PA Filing I	Number	8. TX State	Tax ID (11 digits)			ç	9. Federal Tax ID (9 digits)		10. DUN	S Number (if applicable)	
801404161	1		3204392	.9713				2	15-20	55325	N/A	
11. Type of C	ustomer:	🛛 Corporati	ion		Individual Partnership:  General Lim					al 🗌 Limited		
Government:	City 🗌 🤇	County 🗌 Federal 🗌	State 🗌 Othe	r		Sole P	roprie	etorship 🗌 Other:				
12. Number o	f Employ	ees	<b>—</b> • • • • • •	13.				1	13. Independently Owned and Operated?			
0-20	] 21-100	101-250	251-500		501 ar	nd high	ier		⊠ Yes			
14. Customer	<b>Role</b> (Pro	posed or Actual) -	- as it relates to	the Reg	gulated	Entity I	isted or	n this fo	orm. Plea	ase check one of the	following	
Owner	nal License	ee 🗌 Respo	tor Insible Party			wner & oluntar	ι Oper y Clea	ator inup A	pplicant	Other:		
	Brettor	nwoods Prop	erties, LL	C Attı	n. Jar	nes I	). Ro	sent	latt			
15. Mailing	16731	Huebner Rd	,									
Auuress.	ddress: City San Antonio State TX					ZIP	782	48	ZIP + 4			
16. Country N	/lailing Inf	ormation (if outsi	ide USA)				17. E	E-Mail	Addres	S (if applicable)		1
		•										
18. Telephon	e Number			19. Extension or Code					20. Fax Number (if applicable)			
(210) 562-2900 (210) 562-2929												

#### **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 Name

 ☑ Lip date to 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.)

Rosenblatt Offices

23. Street Address of	16731 H	uebner Rd							
the Regulated Entity:						1			
INO PO Boxes/	City	SanAntonio	D State TX ZIP 78248			ZIP +	4		
24. County	Bexar								
	En	ter Physical Lo	ocation Descrip	tion if no stre	eet addres	s is provided.			
25. Description to Physical Location:	NWC of	Huebner Rd	l. & Deerfie	ld Wood Iı	ntersecti	on			
26. Nearest City						State		Neares	st ZIP Code
27. Latitude (N) In Deci	mal:	29.601944		28. Lo	ongitude (	W) In Decimal:	98.52	25	
Degrees	Minutes	S	econds	Degree	S	Minutes		S	Seconds
29	3	6	07		98		31		21
29. Primary SIC Code (4	digits) <b>30. S</b>	Secondary SIC	Code (4 digits)	31. Primary (5 or 6 digits)	y NAICS (	code 32. S	econdary digits)	NAICS	S Code
8111	N/A	1		541110		N/A	1		
33. What is the Primary	Business of	this entity? (	Do not repeat the SI	C or NAICS desc	ription.)				
Professional Office	es - Attorn	ey							
		Br	enttonwoods F	Properties, LL	C Attn. J	ames D. Rosenbl	att		
34. Mailing			- M	16731	Huebner I	Rd			
Address:	City	San Antonio	State	ТХ	7IP 78248			+ 4	
35. E-Mail Address	;			Carrie@Ro	senblattL	awFirm.com			
36. Teleph	one Number		37. Extensi	on or Code		38. Fax Nu	umber (if	applica	ble)
(210)	562-2900					(	) -		
. TCEQ Programs and I m. See the Core Data Form	D Numbers C instructions for	heck all Programs additional guidan	and write in the p	ermits/registrat	ion number	s that will be affecte	d by the up	dates su	ubmitted on this
Dam Safety	Districts		Edwards Ac	quifer	Emiss	ions Inventory Air	Ind	ustrial H	lazardous Was
Municipal Solid Waste	New So	urce Review Air	OSSF		Petrol	eum Storage Tank	D PW	IS	
	W								
Sludge	Storm V	Vater	Title V Air		Tires		Use	ed Oil	
Voluntary Cleanup	Waste V	Vater	Wastewater	Agriculture Water Rights			Oth	ner:	
ECTION IV: Pro	eparer In	formation							
10. Name: Michael P. S	Sepeda, P.I	Ξ.		41. Title:	Sr. I	Project Manag	ger		
2. Telephone Number	43. Ext./Cod	e 44. Fax	Number	45. E-Ma	ail Addres	S			
210) 340-5670		(210	) 340-5728	mike	Dadacg.	com			
FCTION V. Au	thorized	Signature			- 0				
By my signature below	Leertify to t	the hest of my la	nowledge that the	ne information	provided	in this form is true	e and com	nlete o	nd that I have
gnature authority to subm	it this form on	behalf of the en	tity specified in	Section II, Fi	eld 6 and/o	or as required for t	he updates	s to the	ID numbers
entified in field 39						1	T most		

Company:	ADA Consulting Group, Inc.	Job Title:	Sr. Proje	roject Manager			
Name (In Print):	Michael P. Sepeda, P.E.			Phone:	( 210 ) 340- 5670		
Signature:	man			Date:	3/22/24		