

F-22385

# MR. W FIREWORKS SUPERSTORE MRW BLANCO WATER POLLUTION ABATEMENT PLAN



23306 Blanco Road San Antonio, Texas 78260

# Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

#### **Our Review of Your Application**

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

#### **Administrative Review**

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

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

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

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

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

#### **Technical Review**

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

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

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

#### **Mid-Review Modifications**

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

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

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

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

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

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

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

1. Regulated Entity Name: MRW Smithson Valley				2. Re	egulat	ed Entity No.:		
3. Customer Name: Mr. W Fireworks, Inc.			4. Customer No.: CN600916548					
5. Project Type: (Please circle/check one)	New	Modification Extensio		nsion	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		<b>8. Sit</b>		e (acres):	2.5 AC	
9. Application Fee:	\$4,000	10. Permanent I			BMP(	s):	SF BASIN, VFS	
11. SCS (Linear Ft.):	N/A	12. AST/UST (No			o. Tar	D. Tanks): N/A		
13. County:	Bexar	14. Watershed:					SALADO CREE	K

# **Application Distribution**

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

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

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

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

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

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

SosePH E. TOBERP.E.Print Name of Customer/Authorized Agent7/19/23Signature of Customer/Authorized AgentDate

**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 Cust	tomer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):	Core Data Form Complete (Y/N):		Signed (Y/N):	
Core Data Form Incomplete Nos.:	complete Nos.:		Less than 90 days old (Y/N):	



F-22385

# **GENERAL INFORMATION SECTION**

# **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: Joseph E. Tober, P.E.

Date: 07.19.2023

Signature of Customer/Agent:

**Project Information** 

1. Regulated Entity Name: MRW Blanco

- 2. County: Bexar County
- 3. Stream Basin: Panther Springs Creek (Salado Creek Watershed)
- 4. Groundwater Conservation District (If applicable): EAA/Trinity Rose Glen GCD
- 5. Edwards Aquifer Zone:

Recharge Zone

6. Plan Type:

X	WPAP
	SCS
	Modification

AST
UST
<b>Exception Request</b>

TCEQ-0587 (Rev. 02-11-1	.5)	)
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1 of 4

7. Customer (Applicant):

Contact Person: <u>Wayne Wildman</u> Entity: <u>Mr. W Fireworks, Inc.</u> Mailing Address: <u>P.O. Box 114</u> City, State: <u>Somerset, TX</u> Telephone: <u>(210)622-3112</u> Email Address: <u>wildmans@flash.net</u>

Zip: <u>78069</u> FAX: \_\_\_\_\_

8. Agent/Representative (If any):

Contact Person: Joseph E. Tober, P.E.Entity: Mr. W Fireworks, Inc.Mailing Address: P.O. Box 114City, State: Somerset, TXZip: 78069Telephone: (210)383-6184Email Address: joseph@mrwfireworks.com

9. Project Location:

The project site is located inside the city limits of \_\_\_\_\_

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

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

23306 Blanco Road

- <u>From TCEQ regional office, head north on Judson Road approximately 3.0 miles to Loop</u> <u>1604. Travel west on Loop 1604 approximately 6.4 mile to the exit for Blanco</u> <u>Road/Huebner. Travel north along Blanco Road for 3.7 miles to destination which</u> <u>will be located on the right side of the road.</u>
- 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:

 $\boxtimes$  Project site boundaries.

- USGS Quadrangle Name(s).
- Boundaries of the Recharge Zone (and Transition Zone, if applicable).
- Drainage path from the project site to the boundary of the Recharge Zone.

- 13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
  - Survey staking will be completed by this date: <u>Completed</u>
- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
  - 🔀 Area of the site
  - 🔀 Offsite areas
  - 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:

#### TCEQ cashier

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

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



# LOCATION MAP

NOT TO SCALE

# MR W - 23306 Blanco Rd



# Google Maps

Texas Commission-Environmental, 14250 JudsonDrive 13.8 miles, 24 minRd, San Antonio, TX 78233 to 23306 Blanco Rd, San Antonio, TX 78260



Map data ©2023 Google 1 mi

#### A This route has restricted usage or private roads. Texas Commission-Environmental 14250 Judson Rd, San Antonio, TX 78233

#### Continue to Judson Rd

		16 sec (200	ft)
1	1.	Head southeast toward Judson Rd	,
			5 ft
ſ	2.	Turn right toward Judson Rd	
		85	5 ft
Follo	w Ji	udson Rd. TX-1604 Loop W and Blanco Rd to your	
desti	inati	on	
			mi)
$\rightarrow$	3	Turn right onto Judson Rd	,
1	A	Pass by AutoZone Auto Parts (on the right in 0.6	
	mi		
		)	
6	Л	2.0 Lise the left lane to turn left onto N Loop 1604 F	
.1	4.		
	_	0.2	mi
х	5.	Use the left lane to take the ramp onto 1X-1604	
		Loop W	

6.4 mi

 ✔ 6. Take the exit toward Blanco Road/Huebner Road/F.M. 2696

☆	7.	Merge onto N Loop 1604 W	0.1 mi
<b>↔</b>	8.	Turn right onto Blanco Rd	0.7 mi
			3.7 mi
<b>↔</b>	9. 🔺	Turn right Restricted usage road	

① Destination will be on the right

40 sec (0.1 mi)

23306 Blanco Rd San Antonio, TX 78260



MR. W FIREWORKS, INC. P.O. BOX 114 SOMERSET, TEXAS 78069 F-22385

August 2, 2023

#### Attachment C- Project Description

#### **Existing Development:**

MRW Blanco is a 2.5-acre tract of undeveloped cleared and grading land located at 2330 Blanco Road on the single commercial lot within the City of San Antonio ETJ. The 2.5 acre site was previously part of an overall 5.006 acre single family lot that included an existing concrete driveway path from Blanco Road to the single family residence in the rear of the overall 5.006 acre lot. The proposed project has subdivided the overall tract into a 2.5 acre tract primarily located near Blanco Road with the remaining 2.506 acre tract to include a flag lot to Blanco and leave the existing residential structure alone. The site is located within the Edwards Aquifer Recharge Zone and does not include any floodplain within the property boundary. The site drains toward the southwest corner of the property to a drainage swale along Blanco Road.

The site has numerous large significant and heritage trees with some previous clearing work and gravel placement along the street right of way. Unknown why the previous owner added the gravel. The property currently has 1.28 acre of impervious cover on the ground with the concrete driveway path and the gravel parking lot. This impervious cover adds up to 51.17% impervious cover over the 2.5 acre tract.

Here is a timeline of the property development associated with the following images:

- **1957** Single Family home constructed in the adjacent 2.506 acre tract
- **1977 Aerial** Existing single family home and impervious cover driveway from Blanco to the residence visible.
- Jan 1995 Gravel and vehicles parked along the front area
- Sept 2002 Gravel and clearing/grading activities
- Jan 2010 Gravel and clearing/grading activities
- **Dec 2015** Numerous vehicles parked
- Oct 2019 Numerous vehicles parked
- March 2021 Mr. W Fireworks, Inc. purchases property
- Oct 2021 Fireworks stands located on existing gravel near the driveway



MR. W FIREWORKS, INC. P.O. BOX 114 SOMERSET, TEXAS 78069 F-22385

#### Proposed Development:

The proposed project is to construct a 5,025 SF metal fireworks retail indoor building and utilize the existing gravel parking lot. In addition to this construction, the owner will construct a sand filter water quality basin and an engineered vegetative filter strip to remove TSS load generated from the gravel parking lot and proposed building impervious cover of the building. The project will include a total of 0.82 AC of impervious over the 2.5 ac tract. This will require that areas of gravel to be removed and vegetated with sod/soil.

As stated within the Permanent Stormwater section, we are installing permanent BMP's to treat the impervious cover area that was previously added at some time prior to 2002 by the previous owner of the overall single family residential property. The total impervious cover is being reduced 32.8% of the site for the tract. Please note that the San Antonio Water System has determined this is a Category 3 site, therefore additional impervious cover will not be allowed in the future.





# JAN 1995

Write a description for your map.



# MRW BLANCO 2.5 AC

Legend

IN

300 ft

Google Earth

Image U.S. Geological Survey













F-22385

# **GEOLOGIC ASSESSMENT SECTION**

**GEOLOGIC ASSESSMENT (WPAP)** 

# <u>MRW - BLANCO</u> <u>2.4 ACRES</u> <u>BEXAR COUNTY, TEXAS</u>

### FROST GEOSCIENCES, INC. PROJECT NO.: FGS-E23139 May 22, 2023

Prepared exclusively for

Mr. W Fireworks 12221 FM 476 Somerset, Texas 78069





Frost Geosciences, Inc. 13406 Western Oak Helotes, Texas 78023 Office (210)-372-1315 Fax (210)-372-1318 www.frostgeosciences.com TBPE Firm Registration # F-9227 TBPG Firm Registration # 50040

May 22, 2023

Mr. W Fireworks 12221 FM 476 Somerset, Texas 78069

Attn: Mr. Joseph E. Tober, P.E.

#### SUBJECT:

Geologic Assessment (WPAP) for the Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone MRW - Blanco 2.4 Acres Bexar County, Texas FGS Project № FGS-E23139

Dear Mr. Joseph E. Tober, P.E.:

Frost GeoSciences, Inc., (FGS) is pleased to submit the enclosed Geologic Assessment 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 Texas Commission on Environmental Quality (TCEQ) "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04).

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.

We appreciate the opportunity to perform these services for Mr. W Fireworks. Please contact the undersigned if you have questions regarding this report.



Respectfully submitted, **Frost GeoSciences, Inc.** 

Chris Wickman, P.G. Senior Geologist

Copies Submitted:

Mr. Joseph E. Tober, P.E.; Mr. W Fireworks
 Electronic (pdf) Copy

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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: Chris Wickman, P.G.

Telephone: (210) 372-1315

Date: May 22, 2023

\_\_\_\_\_ Fax: <u>(210) 372-1318</u>

Representing: <u>Frost GeoSciences, Inc. #50040</u> (Name of Company and TBPG or TBPE registration number)

Signature of the Geologist:

Regulated Entity Name: MRW - Blanco

#### **Project Information**

- 1. Date(s) Geologic Assessment was performed: May 19, 2023
- 2. Type of Project:

WPAP SCS

AST
UST

3. Location of Project:

Recharge Zone
Transition Zone
Contributing Zone within the Transition Zone

- 4. X 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

Soil Name	Group*	Thickness(feet)
Tarrant	С	0-2

### \*Soil Group Definitions (Abbreviated)

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted
- 6. Xttachment 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. X 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:  $1'' = \underline{40}'$ Site Geologic Map Scale:  $1'' = \underline{40}'$ 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: <u>2021 Aerial Photograph</u>

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

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- 12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
  - Geologic or manmade features were not discovered on the project site during the field investigation.
- 13. The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

There are \_\_\_\_\_ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

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

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

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

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.

### TCEQ-0585 (Rev. 02-11-15)

#### STRATIGRAPHIC COLUMN

#### EXPLANATION OF HYDROSTRATIGRAPHIC UNITS

Group or Formation	Formal and informal member		Hydrologic unit or Informal hydrostratigraphic unit					
Taylor Group (Pecan Gap) Austin Group Eagle Ford Group Buda Limestone		Kpg Ka Kef Kb	Upper Confining Unit (UCU)					
Del Rio Clay		Kdr						
Georgetown Formation		Kg	I					
Dergon	Cyclic and marine, undivided	Kpcm	II					
Formation	Leached and collapsed	Kplc	III					
	Regional dense member	Kprd	IV					
	Grainstone	Kkg	V					
Kainer	Kirschberg evaporite	Kkke	VI					
Formation	Dolomitic	Kkd	VII					
	Basal nodular	Kkbn	VIII					
		Kgrc	Cavernous					
		Kgrcb	Camp Bullis					
	Upper Glen Rose Limestone	Kgrue	Upper evaporite					
	2	Hgruf Kgrlf	Fossiliferous Upper Lower					
		Kgrle	Lower evaporite					
Glen Rose Limestone		Kgrb	Bulverde					
		Kgrlb	Little Blanco					
	Lower Glen Rose	Kgrts	Twin Sisters					
	Limestone	Kgrd	Doeppenschmidt					
		Kgrr	Rust					
		Kgrhc	Honey Creek					
Pearsall	Hensell Sand	Kheh	Hensell					
Formation	Cow Creek Limestone	Kcccc	Cow Creek					
	Hammett Shale	Khah	Hammett					

1

#### **GEOLOGIC ASSESSMENT TABLE**

**PROJECT NAME:** MRW - Blanco

#### PROJECT NUMBER: FGS-E23139

LOCATION			ļ				FEATURE CHARACTERISTICS								EVA	EVALUATION		PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	1	10		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATIO N	D	IMENSIO	2NS )	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ΙΤΙVΙΤΥ	CAT ARE	CHMENT A (ACRES)	TOPOGRAPHY
						Х	Y	Ζ		10						<40	>40	<1.6	<u>&gt;1.6</u>	
No		Geologic		or					Manmade		Features	Were		Observed		on				Site
Datum: NAD 83																				
2A TYPE TYPE 2B POINTS 8A INFILLING C Cave 30 N None exposed bedrock																				
SC	Solution ca	avity		20 C Coarse - cobbles, breakdown, sand, gravel																
SF	Solution-e	nlarged fracture	s) 20 O Loose or soft mud or soil, organics, leaves, sticks, dark colors																	
	Fault Other pet	ural bodrook foot	20				F V	,	Fines, comp	Cive	clay-rich see	diment, soil p rativo doporir	orofile,	gray or red c	olors					
MB	Manmade	Manmade feature in bedrock 30					v vegetation. Give details in narrative description													
SW	Swallow h	ole	on		30		X		Other mater	rials	10, 0010 000	0010								
SH	Sinkhole				20											_				
CD	Non-karst	closed depression	on	ו 5 12 TOPOGRAPHY																
<u>Z</u>	Zone, clus	tered or aligned	features		30				Cliff,	Hilltop	o, Hillside, Fl	oodplain, Str	eambe	ed		l				
Christen and Chris	stopher Wickm Geology 10403	ALL PARTY	l have re The info My sign	ead, I u ormation ature c	inderstood, n presented ertifies that	and d here l am	l have e com qualif	follow plies w ïed as	red the Texa rith that doc a geologist	as Cor ument as de	nmission on and is a true fined by 30 1	Environment e representat AC 213.	tal Qua tion of	ality's Instruct the condition <u>Date: Ma</u>	ions to o s observ ιγ 22, 2	Geolog ved in 2023	gists. the fiel	ld.		
0	CENSECS					Chri	is Wi	ckma	n, P.G.											
TCEQ-0585-Tab	le (Rev. 10-01-0	04)																	Sheet 1	of 2
Geotechi	nical • Construc	tion Materials •	Geoloaic	• Envii	ronmental											FGS	6 Proj	ect N	I⁰ FGS-E	23139

#### LOCATION

The project site is located along and east of Blanco Road, approximately 1.6 miles north of the intersection of Blanco Road and Wilderness Oak, 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 EAA-Edwards Aquifer Recharge Zone and Contributing Zone Map, the FEMA Flood Insurance Rate Map (FIRM), the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, U.S. Geological Survey: Water Resources Investigations Report (WRI)-95-4030, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas, a 2021 aerial photograph at a scale of 1"=500' and an NRCS Web Soil Survey aerial photograph at a scale of 1"=500'. These maps are included as Figures 1 through 9 in Appendix A.

#### **METHODOLOGY**

The Geologic Assessment was performed by Chris Wickman, P.G., Senior Geologist with Frost GeoSciences, Inc. Mr. Wickman is a Licensed Professional Geoscientist in the State of Texas (License # 10403).

Frost GeoSciences, Inc. researched the geology of the area north and east of the intersection of Blanco Road and Wilderness Oak. The research included, but was not limited to, the Geologic Atlas of Texas, San Antonio Sheet, FEMA Flood Insurance Rate 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 U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, the U.S.G.S. Water-Resources Investigations Report 95-4030, the U.S.D.A. Soil Survey of Bexar County, Texas and the NRCS Web Soil Survey website.

After reviewing the available information, a field investigation was performed to identify any geologic or manmade Potential Recharge Features (PRFs). A transect spacing of approximately 50 feet, or less depending on vegetation thickness, was used to inspect the project area. A 2021 aerial photograph, in conjunction with a handheld Garmin GPS 73 Global Positioning System with an Estimated Potential Error ranging from 8 to 12 feet, was used to navigate around the property and identify the locations of PRFs, as recommended in the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04). The locations of any PRFs noted in the field were marked with blue and white flagging. The flagging is numbered with the same potential recharge feature I.D. # that is used on the Site Geologic Map. The Site Geologic Map, indicating the limits of the project site, and the locations of any PRFs and/or rock outcrops noted on the project site, is included in the Appendices at the end of this report. 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 through 5.

#### **RESEARCH & OBSERVATIONS**

#### 7.5 Minute Quadrangle Map Review

According to the U.S.G.S. 7.5 Minute Quadrangle Map, Camp Bullis Sheet (1992), the elevation across the project site ranges from 1110 to 1130 feet above mean sea level. The project site has a total relief of approximately 20 feet. Runoff from the project site flows to the southwest into Panther Springs Creek located southwest and west of the project site. The topographic map depicts the project site as wooded land with an unimproved road crossing through the northern portion of the project site. Blanco Road is located along the western property line of the project site. A copy of the U.S.G.S. 7.5 Minute Quadrangle Map indicating the location of the project site is included on Figure 3 in Appendix A.

#### Bexar County Watersheds Map

According to the Bexar County Watersheds Map (2003), the project site is located within the Upper Salado Creek Watershed Area. A copy of the Bexar County Watersheds Map indicating the location of the project site is included on Figure 4 in Appendix A.

#### Recharge/Transition Zone

According to the E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map, Camp Bullis (2014), the Official Edwards Aquifer Recharge Zone Map, Camp Bullis Sheet (1992), and the TCEQ website: Edwards Aquifer Viewer – https://tceq.maps.arcgis.com/apps/webappviewer/index.html, the project site is located within the Recharge Zone of the Edwards Aquifer. A copy of the E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map indicating the location of the project site is included in Figure 5 in Appendix A.

#### 100-Year Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for the Flood Insurance Map, Community Panel Number 48029C0120G, dated 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 Number indicates that the project site is located within "Zone X". According to the Panel Legend, Zone X represents areas determined to be outside the 0.2%annual chance floodplain. In addition, the flood panel indicated floodplain associated with Panther Springs Creek present adjacent to the southwestern corner of the project and on the adjacent property west of the project site. The flood plain area is indicated as "Zone A". According to the map panel legend, Zone A represents areas determined to be within the 100-year floodplain where base flood elevations have been determined. A copy of the above referenced FIRM panel indicating the location of the project site is included on Figure 6 in Appendix A.

#### Soils

According to the United States Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Bexar County (1966) and the USDA NRCS Web Soil Survey (WSS) website: https://websoilsurvey.nrcs.usda.gov, the Site is located on the Tarrant Association (TaC). A copy of the an aerial photo (approximate scale: 1"=500') obtained from the Web Soil Survey (WSS) website: https://websoilsurvey.nrcs.usda.gov has been included on Figure 7 in Appendix A.

Tarrant Association, rolling, 5 to 15 percent slopes (TaC) consists of stony soils that are very shallow, dark colored, and gently undulating to steep. The Tarrant Association occurs on the limestone prairies in the northern third of the county. The surface layer is very dark grayish brown, calcareous clay loam and is about 10" thick. It has moderate, fine, subangular blocky structure. This layer is crumbly and friable when moist. Limestone fragments that range from a quarter of an inch to 24" in diameter cover about 35 percent of the surface. The subsurface layer, about 8" thick, is hard fractured limestone. The cracks and spaces are filled with dark grayish brown clay loam. The bedrock is hard limestone. Tarrant soils have rapid surface drainage and good internal drainage. The capacity to hold water is low. Natural fertility is high. Water erosion is a hazard. This soil has a USDA Texture Classification of Clay Loam. The Unified Classification is CL or CH. The AASHO Classification is A-7. This soil has an average permeability from 1.0 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. PRFs were not identified during the on-site inspection conducted on May 19, 2023. The Site Geologic Map is provided in Appendix C. Color photos of the project site are included in Appendix B.

The project site is covered by a moderately dense stand of vegetative cover with an open grassy area on the eastern and northern portions of the project site. The western portion of the project site is covered by a gravel laden area. Two closed and locked wood and corrugated metal fireworks stands were observed in the northwestern portion of the project site. Site visit photos 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 live oak *(Quercus virginiana),* and native grasses and weeds. The variations in the vegetative cover on the property are visible in the 2021 aerial photo on Figure 9 in Appendix A. A copy of the site layout indicating the boundary of the project site and the elevations is included on the Site Geologic Map in Appendix C of this report.

According to the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366 and the U.S. Geological Survey: Water Resources Investigations Report (WRI) 95-4030, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas, the project site is located on the Basal Nodular Member of the Cretaceous Edwards Kainer Limestone (Kkbn), as well as the Cretaceous Upper Glen Rose formation (Kgru).

The Basal Nodular Member of the Edwards Kainer Limestone consists of shaly, nodular limestone, mudstone, and milliolid grainstone. This member is massive, nodular, and mottled with fossils of Exogyra texana. This member typically forms large lateral caves at the surface.

Upper member of the Glen Rose Limestone (Kgru) is the lower confining unit for the Edwards Aquifer and consists of yellowish tan, thinly bedded limestone and marl. Stairstep topography results from alternating layers of limestone and marl. Surface cavern development can occur within this formation but is often hindered by the marly seams. Overall thickness ranges from 300 to 500 feet.

A fault was identified on the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366 and the U.S. Geological Survey: Water Resources Investigations Report (WRI) 95-4030, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas. The fault was indicted crossing the project site from the southwest corner, through central portion of the project site and exiting the northeastern portion of the project site. The U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366 identified the fault as the contact between the Upper Glen Rose limestone to the northwest and the basal nodular member of the Edwards Kainer limestone to the south. Direct visual evidence of the fault was not observed due to gravel paving, thick soil cover and vegetation.

Copies of maps from of the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations report and the Water Resources Investigations Report (WRI) 95-4030, are included on Figures 8 and 8B in Appendix A. A copy of the Stratigraphic Column highlighting the outcropping formations is included on Page 3 of this report.

According to the site plan provided by Mr. W Fireworks, the surveyed elevations on the project site range from 1119 to 1139 feet. According to this survey, the total relief on the project site is approximately 20 feet. A copy of the site plan indicating the boundary of the project site and the elevations is included on the Site Plan on Figure 1 in Appendix A and the Site Geologic Map in Appendix C of this report.

#### **BEST MANAGEMENT PRACTICES**

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 range from low to moderate. The potential always exists to encounter solution cavities within the subsurface during excavating activities. 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 Mr. W Fireworks. 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. USGS 7.5 Minute Topographic Quadrangle of Camp Bullis, 1992
- 2. E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map, Camp Bullis (2014).
- 3. Official Edwards Aquifer Recharge Zone Map, Camp Bullis, 1992
- 4. The Texas Commission on Environmental Quality (TCEQ) website: Edwards Aquifer Viewer https://tceq.maps.arcgis.com/apps/webappviewer/index.html.
- Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, United States Geological Survey.
- 6. Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, United States Geological Survey.
- 7. Collins, Edward, W., 2000, Geologic Map of the New Braunfels 30 X 60 Minute Quadrangle, Bureau of Economic Geology, The University of Texas at Austin, Texas.
- 8. Stein, W.G. and Ozuna, G.B., 1995, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas, U.S. Geological Survey Water Resources Investigations 95-4030.
- 9. Barnes, V.L., 1982, Geologic Atlas of Texas San Antonio Sheet, Bureau of Economic Geology and University of Texas at Austin, Geologic Atlas of Texas.
- 10. Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, Community Panel Number 48029C0120G, dated September 29, 2010
- 11. United States Department of Agriculture Soil Conservation Service Soil Survey of Bexar County 1966.
- 12. USDA NRCS Web Soil Survey (WSS) website: https://websoilsurvey.nrcs.usda.gov (2014)
- 13. TCEQ-0585-Instructions (Rev. 10-1-04), "Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zone".
- 14. San Antonio Water Systems, Bexar County Watersheds Map, 2004.

APPENDIX A

SITE LOCATION FIGURES

FGS Project Nº FGS-E23139











FIGURE 5





for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone MRW-Blanco Bexar County, Texas

Solis I	мар
Bexar County	Soil Survey
NRCS website: websoils	survey.nrcs.usda.gov
PROJECT NO.:	DATE:
FGS-E23139	May 22, 2023

Geotechnical • Construction Materials • Geologic • Environmental

FIGURE 7





FIGURE 8A



\_\_\_\_

APPENDIX B

### SITE PHOTOGRAPHS

FGS Project Nº FGS-E23139



Photo #5 – View to the north across the grassy area covering the eastern portion of the project site.	Photo #6 – View to the southwest across the grassy area covering the eastern portion of the project site.

**APPENDIX C** 

**GEOLOGIC MAP** 

FGS Project Nº FGS-E23139



Location Map



Signature of Texas Licensed Geoscientist Chris Wickman License No. 10403



1137

Contour Interval - 1 foot

Representative Fraction 1:480



F-22385

# WATER POLLUTION ABATEMENT PLAN SECTION

# 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: Joseph E. Tober, P.E.

Date: 07.19.2023

Signature of Customer/Agent:

Regulated Entity Name: MRW BLANCO

## 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):2.5
- 3. Estimated projected population:N/A
- 4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	5,025	÷ 43,560 =	0.12
Parking	25,470.98	÷ 43,560 =	0.58
Other paved surfaces	5,150.24	÷ 43,560 =	0.12
Total Impervious Cover	35,646.2	÷ 43,560 =	0.82

**Table 1 - Impervious Cover Table** 

Total Impervious Cover 0.82 ÷ Total Acreage 2.50 X 100 = 32.8% 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. $L \times W =$  $Ft^2 \div 43,560 Ft^2/Acre =$ acres.Pavement areaacres ÷ R.O.W. areaacres 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:

- 0% Domestic
- <u>0</u>% Industrial
- 0% Commingled
  - TOTAL gallons/day <u>0</u>

15. Wastewater will be disposed of by:

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

<u>0</u>Gallons/day <u>0</u>Gallons/day 0 Gallons/day

Due to the temporary use of the proposed building, there are no bathrooms constructed inside the building. There will be no septics facilities or public sewer connections. During the temporary use of the building during fireworks seasons, Port-A-Potties will be available for employees only and will be under contract to be disposed of properly by the port-a-potties service provider.

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 \_\_\_\_\_ (name) Treatment Plant. The treatment facility is:

Existing.
Proposed

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

## Site Plan Requirements

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

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

Site Plan Scale: 1" = <u>40</u>'.

18. 100-year floodplain boundaries:

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

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

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>48029C0120G</u>, 09/29/2010

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. 🖂 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.



MR. W FIREWORKS, INC. P.O. BOX 114 SOMERSET, TEXAS 78069 F-22385

August 3, 2023

MRW – BLANCO WPAP SECTION (TCEQ-0584)

### Attachment A- Factors Affecting Surface Water Quality

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

- a) Soil erosion due to clearing of site for drainage and pavement
- b) Oil, grease, fuel & hydraulic fluid contamination from construction vehicle drippings
- c) Miscellaneous trash and litter from construction workers and material wrappings
- d) Construction debris
- e) Concrete truck washout
- f) Hydrocarbons from asphalt paving operations



MR. W FIREWORKS, INC. P.O. BOX 114 SOMERSET, TEXAS 78069 F-22385

August 7, 2023

### Attachment B – Volume and Character Storm Water

### Quality:

The quality of the stormwater runoff will be that of a retail building with a metal roof and gravel pavement. The majority of the impervious cover is from the roof and parking area where runoff from the roof will be contaminated mostly by airborne pollutants and runoff from the gravel pavement will be caused by oils and other pollutants from vehicles.

### Volume:

### Existing Conditions:

Total Area = 2.5 ac Impervious Cover = 1.26 ac C=0.82 Tc = 9min I5 = 6.58, I25 = 9.147, I100 = 11.408(PA-2) Q5= 11.84 cfs, Q25 = 16.46 cfs, Q100 = 20.53 cfs

### Proposed Conditions:

Total Area = 2.5

DA1 Area = 0.695 ac C=0.85 Tc = 5 min I5 = 7.94, I25 = 11.13, I100 = 14.00 **Q5= 4.65 cfs, Q25 = 6.53 cfs, Q100 = 8.21 cfs** 

DA2 Area = 0.223 ac C=0.96 Tc = 5 min I5 = 7.94, I25 = 11.13, I100 = 14.00 Q5= 1.75 cfs, Q25 = 2.46 cfs, Q100 = 3.09 cfs

DA3 Area = 1.583 ac C=0.47 Tc = 8 min I5 = 6.86, I25 = 9.56, I100 = 11.94 Q5= 5.01 cfs, Q25 = 7.1 cfs, Q100 = 8.86 cfs



			PRE-DEV IMP	POST DEV IMP	TSS LOAD
DRAINAGE AREAS	BMP	TOTAL (AC)	COVER (AC)	COVER (AC)	REMOVAL (LBS)
DA1	SF WQ POND	0.70	0.05	0.55	440
DA2	VFS	0.22	0.02	0.22	165
DA3	N/A	1.58	0.05	0.05	0
TOTALS		2.50	0.12	0.82	605



F-22385

## **TEMPORARY STORMWATER SECTION**

# **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: Joseph E. Tober, P.E.

Date: <u>08.07.2023</u>

Signature of Gustomer/Agent:

Regulated Entity Name: MRW BLANCO

## Project Information

## Potential Sources of Contamination

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

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

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

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

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

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

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

## Sequence of Construction

5. X 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 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 construction.</li> </ul>
8. [	ר∐ t c	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.	4 [∑ נ נ נ	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. 🛛	<b>ہ</b> [] r	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</li> </ul>
	L	disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

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

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

## Soil Stabilization Practices

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

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

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

## Administrative Information

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



September 11, 2023

### Attachment A- Spill Response Actions

### 1.4.16 Spill Prevention and Control

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 stormwater 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). Meeting to include ensuring portable restrooms are properly disposed by subcontracted company.

(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, and 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 run-off during rainfall to the extent that it doesn't compromise cleanup 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.

(13) Ensure earthen berm is intact to properly provide secondary containment of the portable restrooms with sufficient capacity to handle 10% of portable restroom storage.

### 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 include, 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.tnrcc.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 runoff 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 runoff 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.



August 7, 2023

## **Attachment B- Potential Sources of Contamination**

Potential sources of contamination from the construction site that may be expected to affect the quality of storm water discharges of said site include:

- a) Soil erosion due to clearing of site for drainage and pavement
- b) Oil, grease, fuel & hydraulic fluid contamination from construction vehicle drippings
- c) Miscellaneous trash and litter from construction workers and material wrappings
- d) Construction debris
- e) Concrete truck washout
- f) Hydrocarbons from asphalt paving operations



August 7, 2023

## Attachment C – Sequences of Major Activities

Major activities for proposed site include:

Implement BMP's: Week 1

- Installation of temporary construction entrance/exit. (1,000 SF)
- Installation of erosion and sedimentation controls. Silt Fence (600 LF)

Construction of building and site work: (Week 2-6)

- Gravel placement and tree removal.
- Installation of underground and overhead utilities.
- Construction of metal firework super store.
- Installation of concrete driveway apron.

Site Stabilization (Week 6-8)

Removal of temporary erosion and sedimentation controls (Week 9-10)



August 7, 2023

## Attachment D – Temporary Best Management Practices and Measures

## Stabilized Construction Entrance/Exit

Timing - will be put in place at the beginning of construction, prior to any site work, will be removed at the conclusion of all site work activity.

This BMP will prevent pollution by removing dust, rocks, and other construction debris which is carried on the construction vehicles from entering the right-of-way and potentially draining into the aquifer.

#### Silt Fence

Timing – will be put in place at the beginning of construction, prior to any site work, will be removed at the conclusion of all site work activity

The silt fence will capture potentially contaminated excess sediment prior to running off site. The excess sediment will be removed periodically as described within this plan.

#### **Concrete Washout Pit**

Timing – will be put in place at the beginning of construction, prior to any concrete pour, will be removed at the conclusion of all concrete work

The concrete washout areas will prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors



August 7, 2023

## Attachment F – Structural Practices

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

- Placement of silt fences on property
- Installation of temporary stabilized construction entrance/exit
- Concrete washout pit will be put in place at the beginning of construction.



August 7, 2023

## Attachment G – Drainage Area Map

No more than ten (10) acres will be distributed within a common drainage area at one time as construction of civil infrastructure (utilities, roads, drainage, etc.) will be concurrent with preceding building construction. TBMPs will be utilized for sediment control and are adequate for the drainage areas they serve.



BLOCK 0 CB 4829 AC. 2.5 MRW BLANCO SUBDIVISON PLAT NO. 22-11800425 VOL. XXXX PG. XXX



## **SUPERSTORE** NCO 60 782( $\square$ Ц $\mathbf{O}$ × B ()ORK Ζ ONO Ш 5 306 REW AN. MR $\mathcal{O}$ $\sim$ SAN $\geq$ **A**





**GRADING PLAN** 





# I FGFND

GAS VALVE	<b>©</b>
FIRE HIDKANI	-Q- ~
LIGHT POLE	Q
WATER VALVE	
SANITARY SEWER MANHOLE	(B)
SIGN	$\diamond$
CONTROL POINT	
POWER POLE	
1/2" IRON ROD FOUND	
BENCH MARK	
STORM GRATE	
PIN FLAG OR PAINT STRIPE	$\overline{\mathbf{A}}$
1/2" IRON ROD W/CAP	$\bigcirc$
ROAD W/NO CURB	
EXISTING CURB	
PROPOSED CURB	· · · · · · · · · · · · · · · · · · ·
EXISTING ASPHALT	
EXISTING GRAVEL	
PROPOSED CONCRETE	
PROPOSED ASPHALT	
PROPOSED GRAVEL	<u> </u>
PROPOSED BUILDING	
EXISTING CONTOURS	
EXISTING SPOT GRADE	805.50 ×
PROPOSED CONTOURS	801
6" FIRE LINE	6FL
WATER LINE	W
CHAIN LINK FENCE	OO
WOOD FENCE	
EXISTING TREE	- Ale
FLOW ARROWS	+ + +
LIMITS OF CONSTRUCTION	
PROPERTY LINE	
PROPOSED SPOT GRADES	931.50TC 931.00G
SILT FENCE	SF SF
FIRE LANE	
FIRE HOSE HAND PULL	HAND PULL
FIRE HOSE TRUCK PULL	TRUCK PULL



# LEGAL DESCRIPTION LOT 12

DATE ISSUE REVISED



			PRE-DEV IMP	POST DEV IMP
DRAINAGE AREAS	BMP	TOTAL (AC)	COVER (AC)	COVER (AC)
DA1	SF WQ POND	0.70	0.05	0.55
DA2	VFS	0.22	0.02	0.22
DA3	N/A	1.58	0.05	0.05
TOTALS		2.50	0.12	0.82

PROPOSED/ULTIMATE RUNOFF SUMMARY									
DRAINAGE AREAS	TOTAL (AC)	тс	С	15	125	1100	Q5	Q25	Q100
DA1	0.69	5	0.85	7.94	11.13	14.00	4.65	6.53	8.21
DA2	0.23	5	0.96	7.94	11.13	14.00	1.75	2.46	3.09
DA3	1.58	8	0.47	6.86	9.56	11.94	5.01	7.10	8.87
TOTAL DP1	2.50						11.41	16.09	20.17
		EX	ISTING RU	NOFF SUM	MARY				
DRAINAGE AREAS	TOTAL (AC)	тс	С	15	125	1100	Q5	Q25	Q100
DA1	2.50	9	0.72	6.58	9.147	11.408	11.84	16.46	20.53
TOTAL DP1	2.50						11.84	16.46	20.53

OWNER/DEVELOPER: MR.W FIREWORKS, INC. 12221 FM 476 (P.O. BOX 114) SOMERSET, TEXAS 78069 ATTN: WAYNE WILDMAN







## 

L	EGEND
GAS VALVE	Ø
FIRE HYDRANT	-Q-
LIGHT POLE	X
WATER VALVE	
SANITARY SEWER MANHOLE	69
STORM WATER MANHOLE	ŚW
SIGN	Ŷ
CONTROL POINT	
POWER POLE	
1/2" IRON ROD FOUND	$\textcircled{\bullet}$
BENCH MARK	
STORM GRATE	
PIN FLAG OR PAINT STRIPE	$\sim$
1/2" IRON ROD W/CAP	$\bigcirc$
ROAD W/NO CURB	
EXISTING CURB	
EXISTING GRAVEL	
PROPOSED CONCRETE	
	[240],413,413,433. 2020/0707070
PROPOSED GRAVEL	
PROPOSED BUILDING	
EXISTING CONTOURS	
PROPOSED CONTOURS	
6" FIRE LINE	6FL
WATER LINE	W
WIRE FENCE	- <del>x x x x x x</del>
CHAIN LINK FENCE	OOO
WOOD FENCE	
EXISTING TREE	
FLOW ARROWS	<
LIMITS OF CONSTRUCTION	
PROPERTY LINE	
PROPOSED SPOT GRADES	931.50TC 931.00G
SILT FENCE	SF SF
FIRE LANE	
FIRE HOSE HAND PULL	HAND PULL
FIRE HOSE TRUCK PULL	
DRAINAGE AREA	

LEGAL DESCRIPTION LOT 12 BLOCK 0 CB 4829

AC. 2.5 MRW BLANCO SUBDIVISON PLAT NO. 22-11800425 VOL. XXXX PG. XXX

ISSUE REVISED

DATE



August 7, 2023

## Attachment I – Inspection and Maintenance for BMPs

Designated and qualified personnel shall inspect Pollution Control Measures weekly and within 24 hours after a storm event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm Water TPDES data for a period of three years after the date of the inspection. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe:

- 1. Significant disturbed areas for evidence of erosion.
- 2. Storage areas for evidence of leakage from the exposed stored materials,
- 3. Structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep).
- 4. Vehicle exit point for evidence of off-site sediment tracking.
- 5. Vehicle storage areas for signs of leaking equipment or spills.
- 6. Concrete truck rinse-out pit for signs of potential failure.

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

## Mr. W Fireworks TPDES – Storm Water Pollution Prevention Plan

## PROJECT MILESTONE DATES

Dates when major site grading activities begin:

Construction Activity		Date
	-	
	-	
	_	
	_	
	_	
	_	
	-	

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

Construction Activity	Date
Dates when stabilization measures are initiated:	
Stabilization Activity	Date
Exhibit 3	

## **ON-SITE MATERIALS LIST**

List construction and waste materials to be stored on-site. This list is to be kept current and updated. (Examples: topsoil, gravel, sand, base, excess material to be hauled off, demolition or construction waste, bulk chemicals, fuel, lubricants, etc.)



## Mr. W Fireworks

## **Responsible Party Form**

Polluti	Pollution Prevention Measure Responsible party Name and Phone Number								
	Revegetation								
	Erosion/Sedimentation Controls								
	Vehicle Exits								
lera	Material Areas								
Gen	Equipment Areas								
	Concrete Rinse								
	Construction Debris								
	Trash Receptacles								
	Site Clearing								
	Utility Clearing								
ure	Site Grading Utility Construction								
ruct									
rast	Drainage Construction								
Inf	Asphalt Base								
	Asphalt Surface								
	Site Cleanup								

Identify responsible parties and indicate responsible party for each pollution prevention item listed above by marking an X under the Responsible Party Name.



August 7, 2023

## Attachment J Schedule of Interim and Permanent Soil Stabilization Practices

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased and will be initiated no more than 14 says after the construction in that area has ceased.

At the completion of construction all disturbed areas will be permanently stabilized with sod or other permanent ground cover as directed by the Landscape Architect.

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.

## Site Stabilization

Removing the vegetative cover and altering the soil structure by clearing, grading, and compacting the surface increases an area's susceptibility to erosion. Apply stabilizing measures as soon as possible after the land is disturbed (Figure 1-5). Plan and implement temporary or permanent vegetation, mulches, or other protective practices to correspond with construction activities. Protect channels from erosive forces by using protective linings and the appropriate channel design. Consider possible future repairs and maintenance of these practices in the design.

Seeding establishes a vegetative cover on disturbed areas. Seeding is very effective in controlling soil erosion once a vegetative cover of about 80% has been established. However, often seeding and fertilizing do not produce as thick a vegetative cover as do seed and mulch or netting. Newly established vegetation does not have as extensive a root system as existing vegetation and therefore is more prone to erosion, especially on steep slopes. Care should be taken when fertilizing to avoid untimely or excessive application. Since the practice of seeding and fertilizing does not provide any protection during the time of vegetative establishment, it should be used only on favorable soils in very flat areas and not in sensitive areas.

The management of land by using ground cover reduces erosion by reducing the flow rate of runoff and the raindrop impact. Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days. In very flat, non-sensitive areas with favorable soils, stabilization may involve simply seeding and fertilizing. Mulch and/or sod may be necessary on steeper slopes, for erodible soils, and near sensitive areas. Sediment that has escaped the site due to the failure of sediment and erosion controls should be removed as soon as possible to minimize offsite impacts. Permission should be obtained from adjacent landowners prior to offsite sediment removal.

Mulching/mats can be used to protect the disturbed area while vegetation becomes established. Mulching involves applying plant residues or other suitable materials on disturbed soil surfaces. Mulches/mats used include tacked straw, wood chips, and jute netting and are often covered by blankets or netting. Mulching alone should be used only for temporary protection of the soil surface or when permanent seeding is not feasible. The useful life of mulch varies with the material used and the amount of precipitation, but is approximately 2 to 6 months.

During times of year when vegetation cannot be established, soil mulching should be applied to moderate slopes and soils that are not highly erodible. On steep slopes or highly erodible soils, multiple mulching treatments should be used. Interlocking ceramic materials, filter fabric, and netting are available for this purpose. Before stabilizing an area, it is important to have installed all sediment controls and diverted runoff away from the area to be planted. Runoff may be diverted away from denuded areas or newly planted areas using dikes, swales, or pipe slope drains to intercept runoff and convey it to a permanent channel or storm drain. Reserved topsoil may be used to revegetate a site if the stockpile has been covered and stabilized.

Consideration should be given to maintenance when designing mulching and matting schemes. Plastic nets are often used to cover the mulch or mats; however, they can foul lawn mower blades if the area requires mowing.

Sod can be used to permanently stabilize an area. Sodding provides immediate stabilization of an area and should be used in critical areas or where establishment of permanent vegetation by seeding and mulching would be difficult. Sodding is also a preferred option when there is high erosion potential during the period of vegetative establishment from seeding.

Because of the hardy drought-resistant nature of wildflowers, they may be more beneficial as an erosion control practice than turf grass. While not as dense as turfgrass, wildflower thatches and associated grasses are expected to be as effective in erosion control and contaminant absorption. Because thatches of wildflowers do not need fertilizers, pesticides, or herbicides, and the need for watering is minimal, implementation of this practice may result in cost savings. In 1987, Howard County, Maryland, spent \$690.00 per acre to maintain turfgrass areas, compared to only \$31.00 per acre for wildflower meadows. A wildflower stand requires several years to become established; however, maintenance requirements are minimal once the area is established.



OWNER/DEVELOPER: MR.W FIREWORKS, INC. 12221 FM 476 (P.O. BOX 114) SOMERSET, TEXAS 78069 ATTN: WAYNE WILDMAN



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OWNER:

FUREWOR,

MR. W FIREWORKS, INC

12221 FM 476

SOMERSET, TEXAS 78069

P.O. BOX 114

SOMERSET, TEXAS 78069

## LEGEND

PROPERTY LINE SILT FENCE LIMITS OF CONSTRUCTION STABILIZED CONSTRUCTION ENTRANCE/EXIT

STAGING AREA

WASH-OUT PIT

AREAS OF SOIL STABILIZATION

AREAS OF SOIL DISTURBANCE



AREAS TO BE REVEGETATED

**SEQUENCE OF CONSTRUCTION:** 

- 1. PLACE SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE AS SHOWN.
- 2. PERFORM DEMOLITION, CLEARING, GRUBBING, AND EARTHWORK FOR THE SITE.
- 3. PERFORM INITIAL SITE GRADING AND BUILDING SUBGRADE PAD PREPARATION PER PLANS.
- 4. CONSTRUCTION OF PROPOSED BUILDING, WALKWAYS, DRIVEWAYS, AND PAVEMENT.
- 5. REMOVE TEMPORARY BMP'S AFTER PAVING IS IN PLACE AND/OR AFTER ESTABLISHING VEGETATION

## NOTE:

- 1. ACTUAL LAYOUT DETERMINED IN FIELD. SHOULD BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE/EXIT AND NOT LOCATED NEAR A WELL, FLOODPLAIN, OR OTHER POTENTIAL SOURCES OF CONTAMINATION.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE TEMPORARY BMP'S ARE IN PLACE AND FUNCTIONING AT ALL TIME. NOTIFY ENGINEER IF CITY OF SAN ANTONIO OF SAWS INSPECTION OFFICIALS **REQUEST REVISIONS OR MODIFICATIONS TO THE PLAN.**

DATE ISSUE REVISED TEMPORARY BMP

PLAN C2.′



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NCO

MRW

ENGINEER:



SOMERSET, TEXAS 78069 P.O. BOX 114 SOMERSET, TEXAS 78069



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ESMT'





F-22385

## PERMANENT STORMWATER SECTION

## **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: Joseph E. Tober, P.E.

Date: 08.07.2023

Signature of Customer/Agent

49. the

Regulated Entity Name: MRW Blanco

## 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. 🔀 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. X Attachment D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
□ N/A
9. X The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
<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. 🔀 🖌 i r	Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the nspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
	Prepared and certified by the engineer designing the permanent BMPs and measures
	$\overline{\times}$ Signed by the owner or responsible party
	Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
	igtriangleq A discussion of record keeping procedures
	N/A
12. 🗌 🖌 r F	Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
	N/A
13. 🔀 🖌	Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction
ā	and development is attached. The measures address increased stream flashing, the

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

degradation. N/A

## 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



August 7, 2023

## Attachment A – 20% or Less Impervious Cover Waiver

n/a



August 7, 2023

## Attachment B – BMPs for Up Gradient Storm Water

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. No runoff is expected to discharge onto the site originating upgradient of the development. There is a proposed interceptor channel that will capture and re-direct the flows from upgradient off site.



August 7, 2023

## Attachment C – BMPs for On-site Storm Water

Best Management Practices will be installed on the site to treat the runoff water generated and ensure safe disposal of stormwater downstream. Control measures will be properly selected, installed, and maintained according to the designer's specifications. Controls will be developed to minimize the offsite transport of litter, construction debris, and construction materials.

Partial Sand Filter Basin will be installed on the southwestern portion of the site. The Sand Filter system works as follows:

- The sand filter basin is designed to function in stages. First stage is sedimentation and the second is the filtration.
- Water enters the sedimentation basin area from two locations and begins to pool and settle as the depth increases (see WPAP Site Plan and Basin Plan).
- Water settles and suspended solids are captured by the gabion berm prior to entering the sand filter area.
- Runoff then enters the sand filter area. As water increases in depth it flows through the 18" sand depth and is captured by the perforated underdrain piping.
- The treated runoff then exits the basin through the collector pipe.
- The basin is designed to accept a runoff volume above the required treated volume by utilizing an overflow weir system that allows flows above the required water quality volume to exit the basin. The overflow weir becomes active after the first flush of runoff (2-yr storm event) enters the system for full water quality treatment to remove 80% TSS.
- The pipe system and overflow weir outfall at the same location where runoff spreads and sheet flows as it exits the site.



August 7, 2023

## Attachment D – BMPs for Surface Streams

The proposed Mr. W Fireworks is more than 20% impervious cover, therefore filtration is required for the runoff to Upper Salado Creek. The Sand Filter basin installed onsite ensures safe disposal of runoff to surface streams nearby.

According to the geologic assessment, there are no sensitive features on this site.



August 7, 2023

## Attachment E – Request to Seal Features

Not applicable



August 7, 2023

## Attachment F – Construction Plans

See attached

TSS Removal Calculations 04-20	0-2009			Project Name: MRW Blanco Date Prepared: 08.02.23
Additional information is provid Text shown in blue indicate location Characters shown in red are dat Characters shown in black (Bold	ed for cells with a red triangle i n of instructions in the Technical a entry fields. d) are calculated fields. Chang	in the upper Guidance M es to these	r <mark>ight corner.Pl</mark> anual - RG-348. fields will remov	ace the cursor over the cell. e the equations used in the spreadsheet.
1. The Required Load Reduction for th	e total project:	Calculations f	rom RG-348	Pages 3-27 to 3-30
	Page 3-29 Equation 3.3: $L_{M}$ =	: 27.2(A <sub>N</sub> x P)		
where:	L <sub>M TOTAL PROJECT</sub> = A <sub>N</sub> = P =	Required TSS Net increase Average annu	S removal resulting fro in impervious area fo ial precipitation, inche	om the proposed development = 80% of increased load the project ss
Site Data: Determine Required Loa Predevelopment impervi Total post-development imperv Total post-de	d Removal Based on the Entire Project County = Total project area included in plan * = ous area within the limits of the plan * = ious area within the limits of the plan * = velopment impervious cover fraction * = P =	Bexar 2.50 0.12 0.82 0.33 30	acres acres acres inches	THE OF TEL
* The values entered in these fields sh	L <sub>M TOTAL PROJECT</sub> =	573	lbs.	
Number of drainage basins	/ outfalls areas leaving the plan area =	3		1082FH E. TOBER
2. Drainage Basin Parameters (This int	ormation should be provided for eac	<u>h basin):</u>		08.08.23
	Drainage Basin/Outfall Area No. =	: 1		Joseph E. Jobe
Predevelopment impervious a	Total drainage basin/outfall area = rea within drainage basin/outfall area =	0.70 0.05	acres acres	// '

	1 1 5	
=	ost-development impervious area within drainage basin/outfall area	Po
=	-development impervious fraction within drainage basin/outfall area	Post-o
=	L <sub>M THIS BASIN</sub>	

#### 3. Indicate the proposed BMP Code for this basin.

Texas Commission on Environmental Quality

Proposed BMP =	Sand Filter	
Removal efficiency =	89	percent

0.55

0.78 402

acres

lbs.

Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault

#### 4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:  $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$ 

where:

- A<sub>c</sub> = Total On-Site drainage area in the BMP catchment area
- $A_I$  = Impervious area proposed in the BMP catchment area
- $A_P$  = Pervious area remaining in the BMP catchment area
- $L_R$  = TSS Load removed from this catchment area by the proposed BMP

A <sub>C</sub> =	0.70	acres
A <sub>I</sub> =	0.55	acres
A <sub>P</sub> =	0.15	acres
L <sub>R</sub> =	506	lbs

Desired L <sub>M THIS BASIN</sub> =	440	lbs.		
F =	0.87			
6. Calculate Capture Volume required by the BMP Type for this drainage ba	isin / outfall a	irea.	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient =	1.44 0.60	inches		
	2105			
	Calculations	from RG-348	Pages 3-36 to 3-37	
Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coeffricent =	0.00 0.00 0	acres acres		
Off-site Water Quality Volume =	0	cubic feet		
Storage for Sediment = Total Capture Volume (required water quality volume(s) x 1.20) = The following sections are used to calculate the required water quality volu The volume for BMR Turner not calculate the required water quality volu	= 438 = 2627 Ime(s) for the	cubic feet		
7. Retention/Irrigation System	Designed as	Required in RG	G-348 Pages 3	-42 to 3-46
Required Water Quality Volume for retention basin =	NA	cubic feet		
Irrigation Area Calculations:				
Soil infiltration/permeability rate = Irrigation area =	= 0.1 = NA NA	in/hr square feet acres	Enter determined permeabili	ty rate or assumed value of 0.1
8. Extended Detention Basin System	Designed as	Required in RG	G-348 Pages 3	-46 to 3-51
Required Water Quality Volume for extended detention basin =	NA	cubic feet		
9. Filter area for Sand Filters	Designed as	Required in RG	G-348 Pages 3	-58 to 3-63
9A. Full Sedimentation and Filtration System				
Water Quality Volume for sedimentation basin =	2627	cubic feet		
Minimum filter basin area =	122	square feet		
Maximum sedimentation basin area = Minimum sedimentation basin area =	= 1094 = 274	square feet square feet	For minimum water depth of For maximum water depth of	2 feet 8 feet
9B. Partial Sedimentation and Filtration System				
Water Quality Volume for combined basins =	2627	cubic feet		
Minimum filter basin area =	219	square feet		
Maximum sedimentation basin area = Minimum sedimentation basin area =	876 55	square feet square feet	For minimum water depth of For maximum water depth of	2 feet 8 feet
10. Bioretention System	Designed as	Required in RG	G-348 Pages 3	-63 to 3-65
Required Water Quality Volume for Bioretention Basin =	NA	cubic feet		
11. Wet Basins	Designed as	Required in RG	G-348 Pages 3	-66 to 3-71
Required capacity of Permanent Pool = Required capacity at WQV Elevation =	NA NA	cubic feet cubic feet	Permanent Pool Capacity is Total Capacity should be the plus a second WQV.	1.20 times the WQV Permanent Pool Capacity
12. Constructed Wetlands	Designed as	Required in RG	G-348 Pages 3	-71 to 3-73
Required Water Quality Volume for Constructed Wetlands =	NA	cubic feet		
<u>13. AquaLogic<sup>™</sup> Cartridge System</u>	Designed as	Required in RG	G-348 Pages 3	-74 to 3-78

\*\* 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic<sup>TM</sup>.

Texas Commission on Environmental Quality TSS Removal Calculations 04-20-2009 Project Name: MRW Blanco Date Prepared: 08.02.23 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. 1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: L<sub>M</sub> = 27.2(A<sub>N</sub> x P) L<sub>M TOTAL PROJECT</sub> = Required TSS removal resulting from the proposed development = 80% of increased load where: A<sub>N</sub> = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Bexar Total project area included in plan 2.50 acres Predevelopment impervious area within the limits of the plan 0.12 acres Total post-development impervious area within the limits of the plan acres Total post-development impervious cover fraction 0.33 P 30 inches  $L_{M \text{ TOTAL PROJECT}} =$ 573 lbs \* The values entered in these fields should be for the total project area. Number of drainage basins / outfalls areas leaving the plan area = 3 JOSEPH E TOBER 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = 3 08.08.23 Total drainage basin/outfall area = 1.58 acres Predevelopment impervious area within drainage basin/outfall area = 0.05 acres Post-development impervious area within drainage basin/outfall area = 0.05 acres Post-development impervious fraction within drainage basin/outfall area = 0.03 LM THIS BASIN = 0 lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Vegetated Filter Strips Removal efficiency = 85 percent Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland

#### 4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: L<sub>R</sub> = (BMP efficiency) x P x (A<sub>1</sub> x 34.6 + A<sub>P</sub> x 0.54)

where:

- $A_{C}$  = Total On-Site drainage area in the BMP catchment area
- $\mathsf{A}_{\mathsf{I}}$  = Impervious area proposed in the BMP catchment area
- $A_{\rm P}$  = Pervious area remaining in the BMP catchment area
- $\rm L_{\rm R}$  = TSS Load removed from this catchment area by the proposed BMP

Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault

A <sub>C</sub> =	1.58	acres
A <sub>I</sub> =	0.05	acres
A <sub>P</sub> =	1.53	acres
L <sub>R</sub> =	65	lbs

Desired L <sub>M THIS BASIN</sub> =	0	lbs.		
F =	0.00			
6. Calculate Capture Volume required by the BMP Type for this drainage ba	sin / outfall a	rea.	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	#N/A 0.06 #N/A	inches cubic feet		
	Calculations	from RG-348	Pages 3-36 to 3-37	
Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	0.00 0.00 0 0.00	acres acres	•	
Off-site Water Quality Volume =	#N/A	cubic feet		
Storage for Sediment = Total Capture Volume (required water quality volume(s) x 1.20) = The following sections are used to calculate the required water quality volu	#N/A #N/A me(s) for the	cubic feet selected BMP		
The values for BMP Types not selected in cell C45 will show NA. 7. Retention/Irrigation System	Designed as	Required in RG	G-348 Pages 3	3-42 to 3-46
Required Water Quality Volume for retention basin =	NA	cubic feet		
Irrigation Area Calculations:				
Soil infiltration/permeability rate = Irrigation area =	0.1 NA NA	in/hr square feet acres	Enter determined permeabili	ty rate or assumed value of 0.1
8. Extended Detention Basin System	Designed as	Required in RG	G-348 Pages 3	3-46 to 3-51
Required Water Quality Volume for extended detention basin =	NA	cubic feet		
9. Filter area for Sand Filters	Designed as	Required in RO	G-348 Pages 3	3-58 to 3-63
9A. Full Sedimentation and Filtration System				
Water Quality Volume for sedimentation basin =	NA	cubic feet		
Minimum filter basin area =	NA	square feet		
Maximum sedimentation basin area = Minimum sedimentation basin area =	NA NA	square feet square feet	For minimum water depth of For maximum water depth of	2 feet f 8 feet
9B. Partial Sedimentation and Filtration System				
Water Quality Volume for combined basins =	NA	cubic feet		
Minimum filter basin area =	NA	square feet		
Maximum sedimentation basin area = Minimum sedimentation basin area =	NA NA	square feet square feet	For minimum water depth of For maximum water depth of	2 feet f 8 feet
10. Bioretention System	Designed as	Required in RO	G-348 Pages 3	3-63 to 3-65
Required Water Quality Volume for Bioretention Basin =	NA	cubic feet		
11. Wet Basins	Designed as	Required in RG	G-348 Pages 3	3-66 to 3-71
Required capacity of Permanent Pool = Required capacity at WQV Elevation =	NA NA	cubic feet cubic feet	Permanent Pool Capacity is Total Capacity should be the plus a second WQV.	1.20 times the WQV Permanent Pool Capacity
12. Constructed Wetlands	Designed as	Required in RG	G-348 Pages 3	3-71 to 3-73
Required Water Quality Volume for Constructed Wetlands =	NA	cubic feet		
13. AquaLogic <sup>™</sup> Cartridge System	Designed as	Required in RO	G-348 Pages 3	3-74 to 3-78

\*\* 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic<sup>TM</sup>.

Texas Commission on Environmental Quality TSS Removal Calculations 04-20-2009 Project Name: MRW Blanco Date Prepared: 08.02.23 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. 1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: L<sub>M</sub> = 27.2(A<sub>N</sub> x P) L<sub>M TOTAL PROJECT</sub> = Required TSS removal resulting from the proposed development = 80% of increased load where: A<sub>N</sub> = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Bexar Total project area included in plan 2.50 acres Predevelopment impervious area within the limits of the plan 0.12 acres Total post-development impervious area within the limits of the plan acres Total post-development impervious cover fraction 0.33 Р 30 inches L<sub>M TOTAL PROJECT</sub> = 573 lbs \* The values entered in these fields should be for the total project area. Number of drainage basins / outfalls areas leaving the plan area = 3 JOSEPH F TOBER 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = 2 8.08.23 Total drainage basin/outfall area = 0.22 acres Predevelopment impervious area within drainage basin/outfall area = 0.02 acres Post-development impervious area within drainage basin/outfall area = 0.22 acres Post-development impervious fraction within drainage basin/outfall area = 0.99 LM THIS BASIN = 165 lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Vegetated Filter Strip Removal efficiency = 85 perce Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault 4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type. RG-348 Page 3-33 Equation 3.7: L<sub>R</sub> = (BMP efficiency) x P x (A<sub>I</sub> x 34.6 + A<sub>P</sub> x 0.54) where: A<sub>C</sub> = Total On-Site drainage area in the BMP catchment area AI = Impervious area proposed in the BMP catchment area A<sub>P</sub> = Pervious area remaining in the BMP catchment area L<sub>R</sub> = TSS Load removed from this catchment area by the proposed BMP  $A_{c} =$ 0.22 acres A<sub>I</sub> = 0.22 acres A<sub>P</sub> = 0.00 acres 194 L<sub>P</sub> = lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L <sub>M THS BASIN</sub> =	165	lbs.		
F =	- 0.85			
6. Calculate Capture Volume required by the BMP Type for this drainage ba	isin / outfall ai	<u>ea.</u>	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	1.32 0.81 861	inches cubic feet		
	Calculations	from RG-348	Pages 3-36 to 3-37	
Off-site area draining to BMP =	0.00	acres		
Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	0.00 0 0.00	acres		
Off-site Water Quality Volume =	0	cubic feet		
Storage for Sediment =	172			
Total Capture Volume (required water quality volume(s) x 1.20) =	= 1033	cubic feet		
The values for BMP Types not selected in cell C45 will show NA.	inie(s) for the	Selected DMP	•	
7. Retention/Irrigation System	Designed as	Required in RO	G-348 Pages	s 3-42 to 3-46
Required Water Quality Volume for retention basin =	NA	cubic feet		
Irrigation Area Calculations:				
Soil infiltration/permeability rate = Irrigation area =	= 0.1 = NA NA	in/hr square feet acres	Enter determined permeab	ility rate or assumed value of 0.1
8. Extended Detention Basin System	Designed as	Required in RG	G-348 Pages	s 3-46 to 3-51
Required Water Quality Volume for extended detention basin =	NA	cubic feet		
9. Filter area for Sand Filters	Designed as	Required in RG	G-348 Pages	s 3-58 to 3-63
9A. Full Sedimentation and Filtration System				
Water Quality Volume for sedimentation basin =	NA	cubic feet		
Minimum filter basin area =	• NA	square feet		
Maximum sedimentation basin area = Minimum sedimentation basin area =	NA NA	square feet square feet	For minimum water depth For maximum water depth	of 2 feet of 8 feet
9B. Partial Sedimentation and Filtration System				
Water Quality Volume for combined basins =	NA	cubic feet		
Minimum filter basin area =	NA	square feet		
Maximum sedimentation basin area = Minimum sedimentation basin area =	NA NA	square feet square feet	For minimum water depth For maximum water depth	of 2 feet of 8 feet
10. Bioretention System	Designed as	Required in RG	G-348 Pages	s 3-63 to 3-65
Required Water Quality Volume for Bioretention Basin =	NA	cubic feet		
11. Wet Basins	Designed as	Required in RG	G-348 Pages	s 3-66 to 3-71
Required capacity of Permanent Pool = Required capacity at WQV Elevation =	NA NA	cubic feet cubic feet	Permanent Pool Capacity i Total Capacity should be t plus a second WQV.	s 1.20 times the WQV he Permanent Pool Capacity
12. Constructed Wetlands	Designed as	Required in RO	G-348 Pages	s 3-71 to 3-73
Required Water Quality Volume for Constructed Wetlands =	NA	cubic feet		
<u>13. AquaLogic<sup>™</sup> Cartridge System</u>	Designed as	Required in RG	G-348 Pages	s 3-74 to 3-78

\*\* 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic<sup>TM</sup>.



			PRE-DEV IMP	POST DEV IMP	TSS LOAD
DRAINAGE AREAS	BMP	TOTAL (AC)	COVER (AC)	COVER (AC)	REMOVAL (LBS)
DA1	SF WQ POND	0.70	0.05	0.55	440
DA2	VFS	0.22	0.02	0.22	165
DA3	N/A	1.58	0.05	0.05	0
TOTALS		2.50	0.12	0.82	605



\\MWFSERVER\Users\Engineering\Projects\MWF - Blanco\Drawings\MWR-BLANCO CIVIL.dwg, 8/7/2023 12:38:03 PM, \_AutoCAD PDF (High Quality Print).pc3





ISSUE REVISED



August 8, 2023

## Attachment G - Inspection, Maintenance, Repair, and Retrofit Plan

The Permanent BMP for this project will be the installment of a Sand Filter basin and a 15' engineered vegetative filter strip. The following document regarding the inspection and maintenance schedule and procedures has been prepared to provide a description and schedule for the performance of maintenance of permanent pollution prevention measures. The project specific water pollution abatement plan should be reviewed to determine more information regarding the implemented BMP's.

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

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

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

Vavne Wildman President/Owner Mr. W Fireworks, Inc.


### INSPECTION AND MAINTENANCE SCHEDULE FOR PERMANENT POLLUTION ABATEMENT MEASURES

### MAINTENANCE PROCEDURES FOR PERMANENT POLLUTION ABATEMENT MEASURES

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

### **Inspections**

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

### Mowing

The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

### Litter and Debris Removal

Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

### Erosion control

The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.



MR. W FIREWORKS, INC. P.O. BOX 114 SOMERSET, TEXAS 78069 F-22385

### Level Sensor

The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin.

### Nuisance Control

Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

### Structural Repairs and Replacement

With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced. *A written record should be kept of inspection results and corrective measures taken* 

### Discharge Pipe

The basin discharge pipe shall be checked for accumulation of silt, debris or other obstructions which could block flow. Soil accumulations, vegetative overgrowth and other blockages should be cleared from the pipe discharge point. Erosion at the point of discharge shall be monitored. If erosion occurs, the addition of rock rubble to disperse the flow should be accomplished. A written record should be kept of inspection results and corrective measures taken

### **Detention and Drawdown Time**

One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. This characteristic can be a sign of the need for maintenance. The minimum drawdown time is 24 hours. If drawdown time is less than 24 hours, the actuator valve shall be checked and partially closed to limit the drawdown time. Extensive drawdown time greater than 48 hours may indicated blockage of the discharge pipe. Corrective actions should be performed and completed within 15 working days. *A written record of the inspection findings and corrective actions performed should be made.* 

### Sediment Removal

A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation.



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Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

#### Logic Controller

The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

#### Vegetated Filter Strips

Vegetation height for native grasses shall be limited to no more than 18- inches. When vegetation exceeds that height, the filter strip shall be cut to a height of approximately 4 inches. Turf grass shall be limited to a height of 4-inches with regular maintenance that utilizes a mulching mower. Trash and debris shall be removed from filter strip prior to cutting. Check filter strip for signs of concentrated flow and erosion. Areas of filter strip showing signs of erosion shall be repaired by scarifying the eroded area, reshaping, regrading and placement of solid block sod over the affected area. *A written record of the inspection findings and corrective actions performed should be made* 

#### Visually Inspect Security Fencing for Damage or Breach

Check maintenance access gates for proper operation. Damage to fencing or gates shall be repaired within 5 working days. *A written record should be kept of inspection results and maintenance performed.* 

#### Recordkeeping Procedures for Inspections, Maintenance, Repairs, and Retrofits.

- Written records shall be kept by the party responsible for maintenance or a designated representative.
- Written records shall be retained for a minimum of five years.

Attachment H

Pilot-Scale Field Testing Plan

NOT APPLICABLE



F-22385

# AGENT AUTHORIZATION FORM

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

I	Wayne Wildman Print Name	
	President Title Owner/President/Other	,
of	Mr. W Fireworks, Inc. Corporation/Partnership/Entity Name	
have authorized	Joseph E. Tober, P.E. Print Name of Agent/Engineer	
of	Mr. W Fireworks, 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: icaht's Signatu

7-17-2023

Date

THE STATE OF <u>Texas</u> §

County of \_\_\_\_ §AHALOSA

BEFORE ME, the undersigned authority, on this day personally appeared <u>Wayne Will man</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.

2023. GIVEN under my hand and seal of office on this 17 day of WINTON ROBERSON MUII Typed or Printed Name of Nota Notary Public, State of Texas Comm. Expires 11-19-2024 Notary ID 126290716 MY COMMISSION EXPIRES:



F-22385

# **APPLICATION FEE**

# **Application Fee Form**

Texas Commission on Environmental Quality         Name of Proposed Regulated Entity: <u>MRW Blanco</u> Regulated Entity Location: <u>23306 Blanco Rd. San Antonio, TX 78260</u> Name of Customer: <u>Mr. W Fireworks, Inc.</u> Contact Person: Joseph E. Tober, P.E.         Phone: (210)622-3112         Customer Reference Number (if issued):CN 600916548         Regulated Entity Reference Number (if issued):RN						
Austin Regional Office (3373)						
Hays San Antonio Regional Office (336	Travis	w	illiamson			
Bexar Comal	Medina Kinney	[] Uv	valde			
Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to:						
Austin Regional Office Mailed to: TCEQ - Cashier	⊠ s □ c	an Antonio Regional C Overnight Delivery to: 1	)ffice FCEQ - Cashier			
Revenues Section Mail Code 214 P.O. Box 13088	1 B A	12100 Park 35 Circle Building A, 3rd Floor Austin TX 78753				
Austin, TX 78711-3088	()	(512)239-0357				
Site Location (Check All That App	ly):					
Recharge Zone	Contributing Zone	Transi	tion Zone			
Type of Pla	n	Size	Fee Due			
Water Pollution Abatement Plan,	Contributing Zone					
Plan: One Single Family Residentia	al Dwelling	Acres	\$			
Water Pollution Abatement Plan,	Contributing Zone					
Plan: Multiple Single Family Resid	ential and Parks	Acres	\$			
Water Pollution Abatement Plan,						
Plan: Non-residential	2.5 Acres	\$ 4,000				
Sewage Collection System		L.F.	\$			
Lift Stations without sewer lines	Toul Toul	Acres	\$			
Dining System (s) (aply)	rage Tank Facility	Тапкз	\$			
Figure System(s)(only)		Each	\$			
Extension of Time		Each	\$ \$			
	Edth	4				

Signature: Joseph F. M. Date: 7.19.23

TCEQ-0574 (Rev. 02-24-15)

### **Application Fee Schedule**

**Texas Commission on Environmental Quality** 

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

### Water Pollution Abatement Plans and Modifications

### Contributing Zone Plans and Modifications

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

### **Organized Sewage Collection Systems and Modifications**

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

# Underground and Aboveground Storage Tank System Facility Plans and Modifications

	Cost per Tank or	Minimum Fee-
Project	Piping System	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



F-22385

# CORE DATA FORM



# **TCEQ Core Data Form**

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

### **SECTION I: General Information**

1. Reason fo	or Submise	sion (If other is c	hecked pleas	e descr	ribe in s <sub>l</sub>	pace p	orovid	ed.)				
New Per	mit, Regis	tration or Authori	zation (Core L	Data Fo	orm sho	uld be	subr	nitted w	ith the p	program application	n.)	
Renewa	l (Core Dai	ta Form should b	e submitted w	vith the	renewa	l form	)	Other				
2. Customer	2. Customer Reference Number (if issued) Fol			Follow	v this link	to sea	arch	3. Re	gulated	Entity Referenc	e Number <i>(i</i>	f issued)
CN 6009	16548			for CN Ce	<u>N or RN r</u> entral Re	<u>numbe</u> gistry*	<u>rs in</u> -	RN	1117	82652		
SECTION	II: Cu	stomer Info	ormation									
4. General Cu	ustomer Ir	formation	5. Effective	Date f	for Cust	tomer	r Infor	matio	n Updat	es (mm/dd/yyyy)	9/14/2	2023
New Cust	omer Legal Nan	ne (Verifiable wit	h the Texas S	Update	to Cust	tomer	Inforn Texas	nation	troller o	Change in	Regulated E	Entity Ownership
The Custo	mer Nan	ne submitted	here may l	be und	dated	auto	mati	cally	based	on what is cu	rrent and	active with the
Texas Sec	retarv of	State (SOS)	or Texas C	ompt	roller	of Pi	ublic	Acco	ounts (	(CPA).		
6. Customer	Legal Nar	ne (If an individual	I. print last nam	e first: e	a: Doe.	John)			f new Cu	istomer. enter prev	ious Custome	er below:
	1	T			0	/				·····		
Mr. W Fir	eworks,	Inc.		T 10								
7. 1X SOS/CI	PA Filing I	Number	8. 1X State	+ Tax ID (11 digits)			9	9. Federal Tax ID (9 digits) 10. DUNS Number		<b>5 Number</b> (if applicable)		
00361760	00		1/41826	7906 74			41820	5/90	000425	555		
11. Type of C	Sustomer:	🖂 Corporati	on			ndivid	ual	Partnership: 🔲 General 🔲 Limited				
Government:	City 🗌 C	County 🗌 Federal 🗌	] State 🗌 Other	r		Sole P	roprie	torship		Other:		
12. Number of	of Employ	ees			501	ما ام امرام	13. Independently Owned and Operated?					
	21-100	101-250	251-500		501 an	a nign	ier		X Yes		<b>.</b>	
14. Custome	r Role (Pro	posed or Actual) - 	- as it relates to	the Reg	gulated E	Entity li	isted o	n this fo	orm. Plea	se check one of the	following	
Owner	nal License	e 🗌 Operat	tor insible Party		⊠ Ow □ Vo	vner & luntar	· Oper y Clea	ator anup A	pplicant	Other:		
	P.O. B	ox 114										
15. Mailing												
Address.	City Somerset S			S	state	TX		<b>ZIP</b> 78069		ZIP + 4		
16. Country Mailing Information (if outside USA)					17. I	E-Mail	Addres	S (if applicable)	1			
18. Telephone Number			<b>19.</b> Ex	. Extension or Code 20. Fax Number (if applicable)			ole)					
(210)622-3112					( )	-						

### **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

 ○ 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.)

MRW Blanco

	23306 E	Blanco Rd.							
23. Street Address of									
(No PO Boxes)	City San Antonio		State	TX	ZIP	78260		ZIP + 4	
24. County	Bexar		·						
Enter Physical Location Description if no street address is provided.									
25. Description to Physical Location:									
26. Nearest City						State		Nea	rest ZIP Code
San Antonio						TX		782	260
27. Latitude (N) In Decim	. Latitude (N) In Decimal: 29.65805 28. Longitude (W) In Decimal: -98.518611								11
Degrees	Minutes	S	Seconds	Deg	rees	Min	utes		Seconds
29		39	29		98		3	1	7
29. Primary SIC Code (4 digits) 30. Secondary SIC Code (4 digits) 31. Primary NAICS Code (5 or 6 digits)							32. Secondary NAICS Code (5 or 6 digits)		
5092	59	99		42392	0		4539	98	
33. What is the Primary	Business o	f this entity?	Do not repeat the SIC	or NAICS de	escription.)				
Commercial Firewo	ork Super	Store							
				P.	O. Box 114				
34. Mailing									
Address:	City	Somerset	State	ТХ	ZIP	780	69	ZIP + 4	
35. E-Mail Address:									
36. Telepho	one Numbe	r	37. Extensio	on or Cod	e	38. F	ax Nun	nber <i>(if appli</i>	icable)
( )	-						(	) -	ł
39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.									
Dam Safety	District	ts	Edwards Aqu	ifer	🗌 Emissi	ons Inventor	y Air	🗌 Industria	Hazardous Waste
Municipal Solid Waste	🗌 New S	] New Source Review Air OSSF			Petroleum Storage Tank			PWS	
Sludge	Storm	Water	Title V Air		Tires			Used Oil	
Voluntary Cleanup	U Waste	Water	Wastewater A	Agriculture	U Water	Rights		Other:	

### **SECTION IV: Preparer Information**

40. Name: Joseph E. Tober, P.E.				41. Title:	Project Engineer
42. Telephone Number 43. Ext./Code 44. Fax Number				45. E-Mail	Address
(210)	622-3112	102	() -	joseph@	mrwfireworks.com

### **SECTION V:** Authorized Signature

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

Company:	Mr. W Fireworks	Job Title:	President			
Name (In Print):	Wayne Wildman			Phone:	( 210 ) 622- <b>3112</b>	

Signature:	Jach G. John	Date:	09.18.23
	A osefic C. House	l	
	$\mathcal{V}$		