

#### EDWARDS AQUIFER WATER POLLUTION ABATEMENT PLAN HOFFMAN RV PARK

1950 Hoffman Lane New Braunfels ETJ Comal County, Texas

Prepared January 07, 2025 Revised January 27, 2025

ON BEHALF OF NPC New Braunfels, LLC

Prepared by:



TRI-TECH ENGINEERING, LP 155 RIVERWALK DRIVE SAN MARCOS, TX 78666 TBPE FIRM REG. F-18693

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www.tritechtx.com

## 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

1. Regulated Entity N	ame: (Hof	fman	RV Po	ırk)	2. Re	egulat	ed Entity No.:	
3. Customer Name:	(NPC Brau	nfels,	LLC)		4. Cı	istom	er No.:	
5. Project Type: (Please circle/check one)	New	Modif	icatior	1	Exter	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-r	residen	tal		8. Sit	e (acres):	14.24
9. Application Fee:	\$6,500	10. P	10. Permanent BMP(s): Extended Detention E Vegetative Filter Stri			ion Basin, Grassy Swale, Strip, Sand Filter System		
11. SCS (Linear Ft.):	N/A	12. A	ST/US	ST (N	o. Tar	ıks):	N/A	
13. County:	Cornal	14. W	aters	hed:			Guadeloupe F	River Basin

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

## **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.)		1					
Region (1 req.)		1					
County(ies)		1					
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	<u>1</u> 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 _1 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.

Print Name of Customer/Authorized Agent al N

Signature of Customer/Authorized Agent

12/13/2024 Date

**FOR TCEQ INTERNAL USE ONL	.Y**			
Date(s)Reviewed:		Date Adn	ninistratively Comple	ete:
Received From:		Correct N	lumber of Copies:	
Received By:	:	Distributi	ion Date:	
EAPP File Number:		Complex:		
Admin. Review(s) (No.):	1	No. AR R	ounds:	
Delinquent Fees (Y/N):	1	Review T	ime Spent:	
Lat./Long. Verified:		SOS Cust	omer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee	Payable to TCEQ (Y	/N):
Core Data Form Complete (Y/N):		Check:	Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days o	ld (Y/N):

## **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: <u>Al Carroll</u>, P.E.

1/27/2025 Date:

Signature of Customer/Agent:

**Project Information** 

- 1. Regulated Entity Name: (Hoffman RV Park)
- 2. County: Comal
- 3. Stream Basin: Guadalupe River
- 4. Groundwater Conservation District (If applicable): Comal Trinity
- 5. Edwards Aquifer Zone:

$\checkmark$	Recharge Zone
	<b>Transition Zone</b>

6. Plan Type:

$\checkmark$	WPAP
	SCS
	Modification

AST
UST
<b>Exception Request</b>

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1 of 4

#### (Annlia ant) Cuct 7.

7.	Customer (Applicant):	
	Contact Person: Cortlandt Chalfant Entity: NPC Management, LLC Mailing Address: 809 S. Lammar Blvd. Suite D City, State: Austin, TX 78704 Telephone: (512) 230–9867 Email Address: cort@nexuslending.net	Zip: <u>78132</u> FAX:
8.	Agent/Representative (If any):	
	Contact Person: <u>Al Carroll</u> Entity: <u>Tri-Tech Engineering LP</u> Mailing Address: <u>155 Riverwalk Dr.</u> City, State: <u>San Marcos, Texas</u> Telephone: <u>(512) 440–0222</u> Email Address: <u>acarroll@tritechtx.com</u>	Zip: <u>78666</u> FAX:
9.	Project Location:	
	<ul> <li>The project site is located inside the city limits</li> <li>The project site is located outside the city limit jurisdiction) of <u>New Braunfels</u></li> <li>The project site is not located within any city's</li> </ul>	of ts but inside the ETJ (extra-territorial limits or ETJ.
10.	The location of the project site is described be detail and clarity so that the TCEQ's Regional s boundaries for a field investigation.	low. The description provides sufficient staff can easily locate the project and site
11.	Attachment A – Road Map. A road map show project site is attached. The project location at the map.	ing directions to and the location of the nd site boundaries are clearly shown on
12.	Attachment B - USGS / Edwards Recharge Zou USGS Quadrangle Map (Scale: 1" = 2000') of the The map(s) clearly show:	<b>ne Map</b> . A copy of the official 7 ½ minute ne Edwards Recharge Zone is attached.
	<ul> <li>Project site boundaries.</li> <li>USGS Quadrangle Name(s).</li> <li>Boundaries of the Recharge Zone (and Training path from the project site to the</li> </ul>	nsition Zone, if applicable). boundary of the Recharge Zone.

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

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

- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
  - Area of the site Offsite areas
  - Mimpervious cover
  - Permanent BMP(s)
  - V Proposed site use
  - Site history
  - Previous development
  - Area(s) to be demolished
- 15. Existing project site conditions are noted below:
  - Existing commercial 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

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(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.

Hoffman RV Park Water Pollution Abatement Plan General Information Attachments

ATTACHMENT "A" Road Map



Hoffman RV Park Water Pollution Abatement Plan General Information Attachments

ATTACHMENT "B" USGS Quadrangle Map



## ATTACHMENT "C"

#### Project Narrative

The following is a description of the proposed project to be constructed at 1950 Hoffman Lane, New Braunfels, Texas 0.85 Miles SE of the intersection of FM 306 and Hoffman Lane.

The "project site" (Site) is defined as a 14.24-acre tract of land in the Nancy Kenner Survey No.3, Abstract No. 306 Comal County Texas. The tract is currently unimproved.

The project consists of 76 RV Pad sites; one (1) amenity center with a swimming pool; one (1) storage building; parking and drives. The impervious cover breakdown is as follows:

Structures/Rooftops:	5,701 SQ FT
Parking:	9,265 SQ FT
Parking, Drives & RV Sites:	216,825 SQ FT

The resulting total impervious cover for the site is 231,971 SQ FT which is 37.4% of the total site area. Due to the topographical and geometrical constraints of the site we are proposing to utilize various methods of water quality controls on the site.

All groundcover disturbed by construction activities will be re-vegetated. Due to low impervious cover, there will be no substantial increase in flows or velocities and there will be a minimal impact on water quality.

Planned construction activities include:

- 1. Installation of Temporary BMP's (Silt Fence, Rock Berm, and Stabilized Construction Entrance)
- 2. Clearing and Grubbing: Removal of existing vegetation, top soil and other debris within the proposed construction site.
- 3. Rough Grading: Cutting of proposed entrance drive, parking areas, building pads, access drive, and drainage swales.
- 4. Utility Installation: Trenching and installation of water utilities.
- 5. Site Grading: Grading of entrance drive, parking areas, and building pads to prepare the subgrade for pavement and foundation.
- 6. Pavement & Foundation: Installation of concrete foundations, parking, access drive, and entrance drive.
- 7. Finished Grading: Final grading of drainage swale, slope grading, and landscaping and installation of Permanent BMP's.
- 8. Completion of Construction: Installation of all landscaping and replacement of destroyed vegetation. Once permanent growth of vegetation has occurred remove temporary BMP's (Silt Fence & Rock Berm).

## **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.

Fax:

RS Pr

AST UST

Print Name of Geologist: Andy G. Grubbs RS PG Telephone: 512 644-5361

Date: 6-18-2023

Representing: \_\_\_\_\_ (Name of Company and TBPG or TBPE registration number)

Signature of Geologist: Hays Environmental Consulting PG # 6708

Regulated Entity Name: Hoffman Condos

## **Project Information**

- 1. Date(s) Geologic Assessment was performed: <u>5-12-2023</u>, 7-5-2023
- 2. Type of Project:

3. Location of Project:

X Recharge Zone

- Transition Zone
- Contributing Zone within the Transition Zone

Arthrew C Grunds Geology 6700 1-27-25

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- 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)
Comfort - rock	С	16"
Rumple - Comfort	С	0-18"

- \* 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. X Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. 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. X 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'' = 200'Site Geologic Map Scale: 1'' = 200'Site Soils Map Scale (if more than 1 soil type): 1'' = 700'

9. Method of collecting positional data:

× Global Positioning System (GPS) technology.

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

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

12. X 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.  $\boxed{\times}$  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.
  - $\mathbf{x}$  There are  $\underline{0}$  (#) 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. X Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

GEOL	OGIC A	SSESS	MENT	TAB	щ		PRO	SIEC	T NAN	AE:	Hoffr	nan C	opuo	s						
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1A	18*	1¢*	2A	2B	3		4		5	5A 6	7	84	_	8B	6	Ŧ		£	_	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	MID	ENSIONS (F	EET)	TREND (DEGREES)	DENS	ITY APERTUR	INFIL	- M	RELATIVE FILTRATION RATE	TOTAL	SENSI	YTINI	CATCHMENT AF (ACRES)	REA TO	POGRAPHY
						×	>	Z					$\square$			<40	>40	<1.6 >1	ଜ୍	
sc1	29,793	-98.086	sc	20	Ked		1.5	1.3				1 f	$\vdash$	5		25	Π	×	ΪĽ	lside
F1	29.793	-98.088	L	20	Ked	É	630	e	75			υ		5		25		×	c	sek
F2	29.792	-98,089	ш	20	Ked	12	5 190	ო				υ		5		25		×	Ы	I side
F3	29.79	-98.092	LL.	20	Ked	12	2 160	4	0			0	-	5		25		×	Ē	side
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2A TYPE		TYPE		2	<b>B POINTS</b>						<b>8A INFIL</b>	UNG								
o	Cave				30		z	None,	exposed b	edrock										
sc	Solution ce	ivity			20		υ	Coarse	e - cobbles	, breakde	own, sand,	gravel								
SF	Solution-er	Iarged fract	ure(s)		20		0	Loose	or soft mu	d or soil,	organics, l	eaves,	sticks,	dark color:	S					
ш	Fault	,	;		20	_	ш	Fines,	compacted	I clay-ric	h sedimen	t, soil pi	ofile, g	ray or red	colors					
0	Other natu	ral bedrock	features		5		>	Vegeta	ation. Give	details ir	n narrative	descrip	tion							
MB	Manmade	feature in be	sdrock		30	_	ъS	Flowst	one, ceme	nts, cave	e deposits									
SW	Swallow ho	ale			30	_	×	Other	materials											
HS	Sinkhole				20															7.17
CD	Non-karst	closed depre	assion		Q					12 TOP	OGRAPHY									
Z	Zone, clus	tered or alig	ned featur	es	30		ē	Ë,	lltop, H	Illside	, Drain	age,	Floo	dplain,	Stre	ambo	ed			
			l have re	ad, l und	erstood, an	hilh	ave follo	wed the	e Texas Co	mmissio	n on Envir	onment	al Qua	lity's Instru	uctions t	o Geol	ogists.	The		
			informatic	on presei	nted here c	Idmos	ies with	that do	cument an	d is a tru	e represen	tation o	f the c	onditions o	bserved	d in the	field.			
			My signa	ature certi	fies that I a	am dr	lalified a	s a geo	ologist as d	efined by	/ 30 TAC (	Chapter	213. Dê	ate /	2-	1	2	la la		PRO
													đ	-	30					

Contraction of Cirubbs

Sheet \_\_\_\_\_ of \_\_\_

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

#### **Feature Descriptions**

SC 1: This feature is a very small cluster of solution cavity type karst voids. There are several interconnected openings 10 - 6" in diameter and approximately 14" in depth. It appears to be a exposed ledge of Kirschberg member limestone with well developed karst openings. It filled with leaves and woody debris. Probing with a pole encountered some solid rock in the back.



F1: Small displacement fault. Slight change in lithology on either side. Fault is shown by a set of parallel fractures in stream bed, small scarp and very worn slickensides. Shows in a bedrock area in the stream bed but is generally covered by dirt and other sediments in the streambed

**F2**: Displacement fault. Expressed by a sharp change in lithology. No bedrock pavements visible. Area of fault on the site is covered by soils and eroded materials

F3: Displacement fault. Expressed by a sharp change in lithology. No bedrock pavements visible. Area of fault on the site is covered by soils and eroded materials. Change from blocky highly sculptured karsted rock to smooth cross bedded grainstones

**F4:** Displacement fault. Expressed by a change in lithology. Bedrock pavements on upper side. Zone of caliche like fault gauge on lower side. No visible fractures or slickensides.



**Cross bedded Grainstone** 

RSBG

ANDREW G. GRUBBS PROFESSIONAL GEOSCIENTIST # 6708



## Feature Location Table

Feature ID	Lat	Long	Lat	Long
SC1	29.79385	-98.08691		
F1	29.79398	-98.08834	29.79392	-98.08646
F2	29.79252	-98.08995	29.79265	-98.08936
F3	29.79009	-98.09267	29.78968	-98.09270
F4	29.78981	-98.09299	29.78939	-98.09300

All locations in WGS 84 projection

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#### SITE SOILS

The soils mapped on the site by the U.S. Soil Conservation Service are the Comfort-Rock and Rumple-Comfort soil series of the Gravelly Redland and Low Stony Hills range sites. Comfort-Rock soils of the Low Stony Hills Range Site are thin shallow rocky clays developed over hard limestones. They are generally found on gently undulating uplands Comfort-Rock soils are thin shallow rocky clays developed over hard limestones. Rumple - Comfort soils are in the Gravelly Redland and Low Stony Hills range sites. They are dark cherty clay and clay loams, shallow to moderately deep on uplands of the Edwards Plateau Land Resource Area These clay soils have very slow percolation rates. Permeability in the Comfort-Rock series ranges from 0.06 to 0.2 inches per hour, the Rumple-Comfort is 0.08 - 0.16 inches per hour. Visual inspection showed that there are areas of extremely thin rocky soils. Soils vary from black high clay soils to

#### Profile 1

0 - 8" jet black clay class IV forms ribbon 2" color 7.5YR 2.5/1 sticky, stains, sharp fingerprint, no sand

#### Profile 2

- 0 10" very dark brown clay class IV forms ribbon 2" color 10YR 2/2 sticky, stains, sharp fingerprint, no sand
- 10" red brown clay class IV forms ribbon 2" color 5YR 3/4 sticky, stains, sharp fingerprint, no sand

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## Attachment B Stratigraphic Column

Commanche Series Frredricksburg Group Person Formation

## Commanche Series Fredricksburg Group Kainer Formation





#### Leached & Collapsed Member Person formation

hard white to tan limestone fossiliferous with chert

### Regional Dense Member Person formation

hard dolomitic limestone

### Grainstone Member Kainer formation

hard white crossbedded limestone

## Kirschberg Member Kainer formation

evaporitic limestone weathered karstic zones

### **Dolomitic Member**

Thick to massive bedded Dolomitic limestones

### Walnut Formation

fossiliferous nodular limestones calcareous clays & marl

## Attachment C

#### SITE GEOLOGY:

#### Structure

This project area is near the eastern front of the Balcones Fault Zone where the karst limestones of the Edwards Aquifer rise above the younger rocks of the costal plain. It is in an area of very intense faulting approximately 0.6 miles west of the Hueco Springs / San Marcos springs faults. This is an area where large displacement faults are concentrated. The site lies between two major displacement fault systems and relay ramp structures are the major structural feature here. Large scale tilting of fault blocks is probably caused by this faulting. Rocks with small scarps and large areas of bedrock pavements with solution enlarged fractures are found. Due to the fairly uniform lithology of this section of the Edwards limestones, determining the amount of fault displacement and the tilting of individual blocks is difficult.

#### Stratigraphy

Several geologists have mapped this area and do not agree as to member, formation or location of major displacement faults. Based on the lithology and elevation of the formations it is most likely that the Edwards rocks exposed on the surface at this location are the lower portion of the Person and top of the Kainer formations. These are the Leached & Collapsed, and Regional Dense members of the Person and the Grainstone and Kirschberg members of the Kainer. Tilting of fault blocks in relay ramp structures can be pronounced and in this location it affects stratigraphic position of surface exposures. Local topography and observed lithology are consistent with the Regional Dense, Grainstone and Kirschberg members. Beds of cross bedded grainstones and others with large scale vuggy porosity are prominent here.

### Lithology

The lithology of the rock exposed on the surface is generally a tight, fine grained, fossiliferous limestone. Original depositional environments varied from low energy mudstones to high energy cross bedded grainstones. Moderate to shallow subtidal depositional environments are indicated. The rock is moderate to thick bedded and outcrops are of large rugged boulders, rough surfaced slabs and bedrock pavements. Some surface exposures are strongly solution etched. Honeycomb formed by preferential solution of burrowed beds is found at some spots. Some small order vuggy porosity is also found. Most of the porosity/permeability in this rock is a result of development of vugs ,coarse grained recrystallization and solution along fractures. Due to the tectonic history and setting between major faults, fracture porosity is probably well developed here.

#### Karst

Water infiltrating in this area has a high potential to run across and along the local faults. It flows north to the San Marcos Springs, which are located 12.25 miles northeast. Fracture porosity is probably high and secondary permeability well developed due to the intense faulting of this area and its location along the regional flow pathways.

The entire tract was surveyed using walking transects no greater than 50 feet apart and all potential recharge features discovered during the surface survey were located and plotted on the site geologic map.

Geologic studies specific to this area which were used as background include, Hill (1901), George (1948), Bills (1957), Lozo, et al. (1959), Noyes and Young (1960), DeCook (1960), Stricklin et al. (1971), Rose (1972), Maclay and Small (1976), Senger and Kreitler (1984), Grimshaw (1976), Collins et al. (1991), Bluntzer (1992), Hanson and Small (1995), Hauwert and Hanson (1995), and Ahr (2008)

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Stricklin, F.L., Jr., Smith, C.I., and Lozo, F.E., 1971, Stratigraphy of Lower Cretaceous Trinity deposits of central Texas: Univ. Texas at Austin, Bur. Econ. Geology Rept. Inv. No. 71.

Senger, R.K., and Kreitler, C.W., 1984, Hydrogeology of the Edwards Aquifer, Austin area, central Texas: University of Texas, Bureau of Economic Geology Report Inv. no 141. 35p.

ANDREW G. GRUBBS PROFESSIONAL GEOSCIENTIST # 6708





Topographi	c Cont	ours based	on
LIDAR	USGS	2019	



Attachment D Geologic Map II Hoffman Condos

Kk VI K Bu Kp II Buda Del Rio Kgt I Georgetown Kp II Cyclic & Marine Kp III Leached & Collapsed **Regional Dense** Kp IV Kk V Grainstone Kk VI Kirschberg Kk VII Dolomitic Kk V State K Bu Kp III 306 Homman Lang 1,000 feet K Dr 6-19-23 Source USGS 1995 Hanson and Small lays Environmental Consulting

Attachment D Geologic Map III Hoffman Condos

Site

fee

Environmental Consulting

Bureau of Economic Geology Barnes 1974

## 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: \_ Al Carroll, P.E.

Date: <u>(27/2725</u> Signature of Customer/Agent:

Regulated Entity Name: (Hoffman RV Park)

### **Regulated Entity Information**

- 1. The type of project is:
  - Residential: Number of Lots:\_\_\_\_\_
     Residential: Number of Living Unit Equivalents:\_\_\_\_\_
     Commercial
     Industrial
     Other: <u>RV Park</u>
- 2. Total site acreage (size of property): 14.24
- 3. Estimated projected population: N/A
- 4. The amount and type of impervious cover expected after construction are shown below:

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

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	5,701	÷ 43,560 =	.13
Parking	9,265	÷ 43,560 =	.21
Other paved surfaces	216,825	÷ 43,560 =	4.98
Total Impervious Cover	231,791	÷ 43,560 =	5.32

Total Impervious Cover <u>5.32</u> ÷ Total Acreage <u>14.24</u> X 100 = <u>37.4</u> % Impervious Cover

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

## For Road Projects Only

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

7. Type of project:

TXDOT road project.

County road or roads built to county specifications.

City thoroughfare or roads to be dedicated to a municipality.

Street or road providing access to private driveways.

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

```
__Concrete
__Asphaltic concrete pavement
__Other: _____
```

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

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

10. Length of pavement area: \_\_\_\_\_ feet.

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

- 11. A rest stop will be included in this project.
  - A rest stop will not be included in this project.

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

## Stormwater to be generated by the Proposed Project

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

## Wastewater to be generated by the Proposed Project

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

% Domestic	<u>3,650</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>3,650</u>	

15. Wastewater will be disposed of by:

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

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

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

Sewage Collection System (Sewer Lines):

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

The SCS was previously submitted on\_\_\_\_

] The SCS was submitted with this application.

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

The sewage collection system will convey the wastewater to the \_\_\_\_\_ (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.  $\sqrt{}$  The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = \_\_\_\_'.

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.

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

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

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

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

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

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

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

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

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

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

- 21. Geologic or manmade features which are on the site:
  - All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
  - No sensitive geologic or manmade features were identified in the Geologic Assessment.

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

- 22. The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. 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.

#### Hoffman RV Park WPAP <u>ATTACHMENT "A"</u> Factors Affecting Surface Water Quality

The only potential factors affecting water quality are from construction equipment leaks, refueling spills, as well as potential leaks from port-o-lets, and the total suspended solids (TSS) due to the construction activities on-site.

#### ATTACHMENT "B"

#### Volume and Character of Stormwater

This development proposes approximately 37.4% impervious cover and will utilize natural drainage channels to direct runoff to Extended Detention Basin, Grassy Swales, Vegetative Filter Strips and a Sand Filter System. These controls and channels will act as buffer areas to surrounding property to filter sediment and other constituents which may be washed off roadway pavements. In addition, all natural drainage patterns will be maintained and erosion controls installed to minimize erosion due to flow concentration.
2

# **Temporary Stormwater Section**

**Texas Commission on Environmental Quality** 

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

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

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

# Signature

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

Print Name of Customer/Agent: <u>Al Carroll, P.E.</u>

Date: 1/27/2025

Signature of Customer/Agent

Regulated Entity Name: (Hoffman RV Park)

# **Project Information**

# **Potential Sources of Contamination**

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

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

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

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

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

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

1 of 5

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

Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

Fuels and hazardous substances will not be stored on the site.

- 2. Attachment A Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. Attachment B Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

# Sequence of Construction

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

For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 For each activity described, include a description of appropriate temporary control

- 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:

# 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. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
<ul> <li>Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.</li> <li>There will be no temporary sealing of naturally-occurring sensitive features on the site.</li> </ul>
9. Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:
<ul> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.</li> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.</li> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.</li> <li>There are no areas greater than 10 acres within a common drainage area that will be used in combination with other reosion and sediment controls within each disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed at area.</li> </ul>

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

11. Attachment H - Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

▼N/A

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

# Soil Stabilization Practices

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

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

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

# Administrative Information

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

# ATTACHMENT "A"

Spill Response Actions

There will be no above ground storage tanks allowed on this project. Equipment will be fueled using mobile fuel trucks as needed. There is a small chance of a fuel spill occurring due to leaking construction equipment or refueling operations. The spill prevention and control measures described below, and included in Section 1.4.16 of RG-348 complying with the Edwards Aquifer Rules Technical Guidance Manual on Best Management Practices (July 2005), will be followed.

# 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).

(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 runoff during rainfall to the extent that it doesn't compromise clean up activities.

(7) Do not bury or wash spills with water.

(8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMP's.

(9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.

(10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.

(11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.

(12) Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

# Cleanup

(1) Clean up leaks and spills immediately.

(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.

(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMP's 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)1f 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.

NPC New Braunfels, LLC Water Pollution Abatement Plan

(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: https://www.tceq.texas.gov/response/spills/spill\_rq.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.

# <u>ATTACHMENT "B"</u> Potential Sources of Contamination

The only potential sources of contamination are construction equipment leaks, refueling spills, potential leaks from port-o-lets, and the total suspended solids (TSS) due to the construction activities on-site. There are no other anticipated potential sources of contamination.

# ATTACHMENT "C" Sequence of Major Activities

Stages of Construction:

- 1. Installation of Temporary BMP's (Silt Fence, Rock Berm, and Stabilized Construction Entrance)
- 2. Clearing and Grubbing: Removal of existing vegetation, top soil and other debris within the proposed construction site.
- 3. Rough Grading: Cutting of proposed entrance drive, parking areas, building pads, access drive, and drainage swales.
- 4. Utility Installation: Trenching and installation of water and wastewater utilities.
- 5. Site Grading: Grading of entrance drive, parking areas, and building pads to prepare the subgrade for pavement and foundation.
- 6. Pavement & Foundation: Installation of concrete foundations, parking, access drive, and entrance drive.
- 7. Finished Grading: Final grading of drainage swale, slope grading, and landscaping and installation of permanent BMP's.
- 8. Completion of Construction: Installation of all landscaping and replacement of destroyed vegetation. Once permanent growth of vegetation has occurred remove temporary BMP's (Silt Fence & Rock Berm).
- 9. Soil Stabilization.

The project site falls within the Guadalupe River drainage basin. Drainage from the site will travel approximately 6 miles down Alligator Creek then approximately 11.5 miles down Geronimo Creek to its confluence with the Guadalupe River.

# <u>ATTACHMENT "D"</u> Temporary BMP's and Measures

The following sequence will be followed for installing temporary BMP's:

- 1. Building pad, parking, drainage swale, entrance drive, utilities (water & wastewater), and access drive location will be located/surveyed. (No soil disturbance.)
- 2. Silt fence and rock berms will be constructed on the downgradient side of proposed construction site prior to beginning clearing and construction operations.
- 3. Stabilized construction entrance will be established at proposed entrance drive.

A. Any upgradient surface water entering this site will be handled by Temporary BMP's (Silt Fence & Rock Berm).

NPC New Braunfels, LLC

**Temporary Stormwater Section** 

Water Pollution Abatement Plan

B. Silt fence will be placed on the downgradient side of proposed improvements to contain pollutants generated from onsite runoff. Material form excavation will be placed upstream of the silt fence to reduce the potential of sediment reports.

Rock berms will be place on the down gradient end of channelized drainage locations to contain pollutants generated from onsite runoff.

Soil disturbance will be limited to a minimal distance outside the proposed pavement and landscaping footprint. Disturbed areas will be seeded to replace destroyed vegetation. The existing vegetation located downgradient of each proposed improvement will help to prevent pollution of water originating onsite and/or flowing offsite.

There were sensitive geological features discovered on the project during the field investigation. They are identified as C1 (30' diameter cave) and SC1 (12" x 10" solution cavity) in the geological assessment table. A temporary diversion dike can be placed upstream of the sensitive features to route runoff around the sensitive features.

Materials:

(1) Stone stabilization (required for velocities in excess of 6 fps) should consist of riprap placed in a layer at least 3 inches thick and should extend a minimum height of 3 inches above the design water surface up the existing slope and the upstream face of the dike.Stabilization riprap should conform to the following specifications:

Channel Grade Riprap Stabilization:

0.5 - 1% 4 inch rock

1.1 - 2% 6 inch rock

2.1 – 4 % 8 inch rock

4.1 - 5% 8 - 12 inch riprap

(2) Geotextile fabric should be a non-woven polypropylene fabric designed specifically for use as a soil filtration media with an approximate weight of 6 oz./yd2, a Mullen burst rating of 140 psi, and having an equivalent opening size (EOS) greater than a #50 sieve.

Installation:

(1) Diversion dikes should be installed prior to and maintained for the duration of construction and should intercept no more than 10 acres of runoff.

(2) Dikes should have a minimum top width of 2 feet and a minimum height of compacted fill of 18 inches measured form the top of the existing ground at the upslope toe to top of the dike and having side slopes of 2:1 or flatter.

(3) The soil for the dike should be placed in lifts of 8 inches or less and be compacted to 95 % standard proctor density.

(4) The channel, which is formed by the dike, must have positive drainage for its entire length to an outlet.

(5) When the slope exceeds 2 percent, or velocities exceed 6 feet per second (regardless of slope), stabilization is required. Situations in which velocities do not exceed 6 feet per second, vegetation may be used to control erosion.

Inspection and Maintenance Guidelines:

(1) Swales should be inspected weekly and after each rain event to determine if silt is building up behind the dike or if erosion is occurring on the face of the dike.

Locate and repair any damage to the channel or clear debris or other obstructions so as not to diminish flow capacity.

(2) Silt should be removed in a timely manner to prevent remobilization and to maintain the effectiveness of the control.

(3) If erosion is occurring on the face of the dike, the slopes of the face should either be stabilized through mulch or seeding or the slopes of the face should be reduced.

(4) Damage from storms or normal construction activities such as tire ruts or disturbance of swale stabilization should be repaired as soon as practical.

#### <u>ATTACHMENT "E"</u> Request to Temporarily Seal a Feature

There will be no request to temporarily seal a feature.

# ATTACHMENT "F" Structural Practices

Silt fence will be used to protect disturbed soils and to prevent contamination from leaving the project site and rock berms will be used at areas of channelized drainage leaving the project site. The majority of the site will remain in a natural condition with minimal impacts to existing drainage paths; therefore, natural filtration will be allowed to occur.

## ATTACHMENT "G" Drainage Area Map

See Drainage Area Map included in Construction Plans.

# <u>ATTACHMENT "H"</u> Temporary Sediment Pond Plans and Calculations

Do to the small scale of the site and the minor soil disturbance involved no sediment ponds will be constructed.

# <u>ATTACHMENT "I"</u> Inspection and Maintenance for BMP's

# Inspection and Maintenance Plan

The contractor is required to inspect the fences and rock berms at weekly intervals and after any rainfall events to insure that they are functioning properly. The contractor is required to document any changes on the Site Plan; documentation must include person performing task, task performed, and date. The contractor must also document if proper inspection measures have

#### NPC New Braunfels, LLC Water Pollution Abatement Plan

been taken while making changes. The person(s) responsible for maintenance controls and fences shall immediately make any necessary repairs to damaged areas.

<u>Construction Entrance/Exit</u>: The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic cleanup of existing entrances/exits. All sediment spilled, dropped, washed, or tracked onto public rights-of-way should be removed immediately by contractor. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin. All sediment should be prevented from entering any storm drain, ditch, or watercourse by using approved methods.

<u>Silt Fence</u>: Remove sediment when buildup reaches 6 inches. Replace any torn fabric or install a second line of fencing parallel to the torn section. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

<u>Rock Berm</u>: Remove sediment and debris when buildup reaches 6 inches. Replace or rebuild any sections of berm that become damaged. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of berm is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the rock berm should be revegetated.

TCEQ staff will be allowed full access to the property during construction of the project for inspecting controls and fences and to verify that the accepted plan is being utilized in the field. TCEQ staff has the right to speak with the contractor to verify plan changes and modifications.

Any changes made to the location or type of controls shown on the accepted plans, due to onsite conditions, shall be documented on the site plan that is part of this Water Pollution Abatement Plan. No other changes shall be made unless approved by TCEQ and the Design Engineer. The contractor is required to document any changes on the Site Plan, documentation must include person performing task, task performed, and date. The contractor must also document if proper inspection measures have been taken while making changes. Documentation shall clearly show changes made, date, and person responsible and reason change was made.

# **INSPECTION & MAINTENANCE SCHEDULE**

INSPECTION, MAINTENANCE, RETROFIT AND/OR REPAIR ITEM	DATE PERFORMED	INTIALS	NOTES/COMMENTS

# NPC New Braunfels, LLCTemporaryWater Pollution Abatement PlanATTACHMENT ''J''Schedule of Interim and Permanent Soil Stabilization Practices

Areas which are disturbed by construction staging and storage areas will be hydra mulched with the appropriate seed mixture. Areas between the edge of construction site and right-of-way line will also be hydra mulched if soil layers exist. Areas within 15' of new pavement will be protected with an engineered vegetative filter strip and remaining areas will be landscaped with appropriate plants and mulched. There will be no fill slopes exceeding a 3:1 slope and all fill slopes will be hydra mulched. <u>All disturbed 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.</u> Installation and acceptable mixtures of hydra mulch are as follows:

# Materials:

<u>Hydraulic Mulches</u>: Wood fiber mulch can be applied alone or as a component of hydraulic matrices. Wood fiber applied alone is typically applied at the rate of 2,000 to 4,000 lb/acre. Wood fiber mulch is manufactured from wood or wood waste from lumber mills or from urban sources.

<u>Hydraulic Matrices</u>: Hydraulic matrices include a mixture of wood fiber and acrylic polymer or other tackifier as binder. Apply as a liquid slurry using a hydraulic application machine (i.e., hydra seeder) at the following minimum rates, or as specified by the manufacturer to achieve complete coverage of the target area: 2,000 to 4,000 lb/acre wood fiber mulch, and 5 to 10% (by weight) of tackifier (acrylic copolymer, guar, psyllium, etc.)

<u>Bonded Fiber Matrix</u>: Bonded fiber matrix (BFM) is a hydraulically applied system of fibers and adhesives that upon drying forms an erosion resistant blanket that promotes vegetation, and prevents soil erosion. BFMs are typically applied at rates from 3,000 lb/acre to 4,000 lb/acre based on the manufacturer's recommendation. A biodegradable BFM is composed of materials that are 100% biodegradable. The binder in the BFM should also be biodegradable and should not dissolve or disperse upon re-wetting. Typically, biodegradable BFMs should not be applied immediately before, during, or immediately after rainfall if the soil is saturated. Depending on the product, BFMs typically require 12 to 24 hours to dry and become effective.

# Seed Mixtures:

Dates	Climate	Species	(lb/ac.)
Sept. 1 to Nov. 30	Temporary Cool Season	Tall Fescue	4.0
-		Oats	21.0
		Wheat's	30.0
		Total	55.0
Sept. 1 to Nov. 30	Cool Season Legume	Hairy Vetch	8.0
May 1 to Aug. 31	Temporary Warm Season	Foxtail Millet	30.0

<u>Fertilizer</u>: Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet.

# Installation:

(1) Prior to application, roughen embankment and fill areas by rolling with a crimping or punching type roller or by track walking. Track walking shall only be used where other methods are impractical.

(2) To be effective, hydraulic matrices require 24 hours to dry before rainfall occurs.

(3) Avoid mulch over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.

# **Owner's Information:**

Owner:	NPC New Braunfels, LLC		
Contact:	Cortlandt Chalfant		
Phone:	(512) 230-9867		
Address:	809 S Lamar Blvd. Suite D		
	Austin, Texas 78704		

# **Design Engineer:**

Company:	Tri-Tech Engineering, L.P.		
Contact:	Al Carroll Jr., P.E.		
Phone:	(512) 353-3335		
Address:	155 Riverwalk Dr.		
	San Marcos, Texas 78666		

#### Person or Firm Responsible for Erosion/Sedimentation Control Maintenance:

Company: To be determined Contact: Phone: Address:

Signature of Responsible Party:

# This portion of the form shall be filled out and signed by the responsible party prior to construction.

# **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: Al Carroll, P.E.

Date: 1/27/2025

Signature of Customer/Agent

Regulated Entity Name: (Hoffman RV Park)

# Permanent Best Management Practices (BMPs)

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

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

🗌 N/A

2. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

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1 of 4

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 from the site is attached.</li> </ul>
8.	Attachment D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
	▼N/A
9.	The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
	<ul> <li>The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.</li> <li>Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.</li> </ul>
10.	Attachment F - Construction Plans. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
	<ul> <li>Design calculations (TSS removal calculations)</li> <li>TCEQ construction notes</li> <li>All geologic features</li> <li>All proposed structural BMP(s) plans and specifications</li> <li>N/A</li> </ul>

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11. 🔽	Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the
	inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and
	measures is attached. The plan includes all of the following:

Prepared and certified by the engineer designing the permanent BMPs and measures

Signed by the owner or responsible party

Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit

A discussion of record keeping procedures

\_\_\_\_ N/A

12. Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

N/A

13. Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.

N/A

# Responsibility for Maintenance of Permanent BMP(s)

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

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

\_\_\_\_ N/A

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

\_\_\_\_\_N/A

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#### ATTACHMENT "A"

20% or Less Impervious Cover Waiver, if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed.

N/A

#### ATTACHMENT "B" BMPs for Upgradient Stormwater

The site has been graded to allow upgradient storm water to pass through the site within the existing drainage ravines and prevent pollution from stormwater that generated upgradient from the site.

#### ATTACHMENT "C" BMPs for On-site Stormwater

The proposed extended detention pond, grassy swales, vegetative filter strips and sand filter are designed to prevent pollution from stormwater that generates onsite.

ATTACHMENT "D" BMPs for Surface Streams

N/A

<u>ATTACHMENT "E"</u> Request to Seal Features (if sealing a feature)

N/A

NPC New Braunfels, LLC Water Pollution Abatement Plan

ATTACHMENT "F" Construction Plans Permanent Stormwater Attachments Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

# Project Name: HOFFMAN RV Park-DA 1 Date Prepared: 1/7/2025

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$ 

where:

\*

 $L_{M \text{ TOTAL PROJECT}}$  = Required TSS removal resulting from the proposed development = 80% of increased load

 $A_N$  = 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 =	Comal	
Total project area included in plan *=	14.24	acres
Predevelopment impervious area within the limits of the plan * =	2.11	acres
Total post-development impervious area within the limits of the plan* =	5.32	acres
Total post-development impervious cover fraction * =	0.37	
P =	33	inches
L <sub>M TOTAL PROJECT</sub> = The values entered in these fields should be for the total project area.	2881	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	15	



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

Drainage Basin/Outfall Area No. =	1	
Total drainage basin/outfall area =	1.26	acres
Predevelopment impervious area within drainage basin/outfall area =	0.52	acres
Post-development impervious area within drainage basin/outfall area =	1.26	acres
Post-development impervious fraction within drainage basin/outfall area =	1.00	
L <sub>M THIS BASIN</sub> =	664	lbs.

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

Proposed BMP = <b>Sand</b> Removal efficiency =	l Filter 89	percent

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

<u>4. Calculate Maximum TSS Load Removed ( $L_R$ ) for this Drainage Basin by the selected BMP Type.</u>

RG-348 Page 3-33 Equation 3.7:  $L_{R} = (BMP \text{ efficiency}) \times P \times (A_{I} \times 34.6 + A_{P} \times 0.54)$ 

w	her	e.
	101	0.

- $A_{C}$  = 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> =	1.26	acres
A <sub>I</sub> =	1.26	acres
A <sub>P</sub> =	0.00	acres
L <sub>R</sub> =	1280	lbs

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

Desired L <sub>M THIS BASIN</sub> =	826	lbs.		
F =	0.65			
6. Calculate Capture Volume required by the BMP Type for this drainage basir	<u>n / outfall a</u>	irea.	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient =	0.67 0.82	inches		
On-site Water Quality Volume =	2516	cubic feet		
C	alculations	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 =	0	cubic feet	
	Storage for Sediment =	503		
Total Capture Volu	ume (required water quality volume(s) x 1.20) =	3020	cubic feet	
The following sections are u	sed to calculate the required water quality volu	me(s) for the	e selected BMP.	
The values for BMP Types no	ot selected in cell C45 will show NA.			
7. Retention/Irrigation System	<u>n</u>	Designed as	Required in RG-	348         Pages 3-42 to 3-46
Re	quired Water Quality Volume for retention basin =	NA	cubic feet	
Irrigation Area	Calculations:			
	Soil infiltration/permeability rate = Irrigation area =	<mark>0.1</mark> NA NA	in/hr E square feet acres	Enter determined permeability rate or assumed value of 0.1
<u>8. Extended Detention Basin</u> Required Wa	<u>System</u> ter Quality Volume for extended detention basin =	Designed as	Required in RG-	348 Pages 3-46 to 3-51
9. Filter area for Sand Filters		Designed as	Required in RG-	348 Pages 3-58 to 3-63
<u>9A. Full Sedi</u>	mentation and Filtration System			
	Water Quality Volume for sedimentation basin =	3020	cubic feet	
	Minimum filter basin area =	140	square feet	
	Maximum sedimentation basin area = Minimum sedimentation basin area =	1258 315	square feet square feet	For minimum water depth of 2 feet For maximum water depth of 8 feet

**Texas Commission on Environmental Quality** 

TSS Removal Calculations 04-20-2009

# Project Name: HOFFMAN RV Park DA-7 Date Prepared: 1/7/2025

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:

Pages 3-27 to 3-30

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$ 

where:

L<sub>M TOTAL PROJECT</sub> = Required TSS removal resulting from the proposed development = 80% of increased load

 $A_N$  = 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 =	Comal	
Total project area included in plan *=	14.24	acres
Predevelopment impervious area within the limits of the plan * =	2.11	acres
Total post-development impervious area within the limits of the plan* =	5.32	acres
Total post-development impervious cover fraction * =	0.37	
P =	33	inches
L <sub>M TOTAL PROJECT</sub> =	2881	lbs.
* The values entered in these fields should be for the total project area.		



Number of drainage basins / outfalls areas leaving the plan area = 15

Calculations from RG-348

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

Drainage Basin/Outfall Area No. =	7	
Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area =	2.49 0.69 1.11	acres acres acres
$L_{\rm M THIS BASIN} =$	0.45 377	lbs.

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

Proposed BMP = Ex	tended De	etention
Removal efficiency =	75	percent

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

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

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

- $A_{C}$  = 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> =	2.49	acres
A <sub>I</sub> =	0.69	acres
A <sub>P</sub> =	1.80	acres
L <sub>R</sub> =	615	lbs

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

Desired L <sub>M THIS BASIN</sub> =	377	lbs.		
F =	0.61			
6. Calculate Capture Volume required by the BMP Type for this drainage basi	n / outfall a	area.	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient =	0.60 0.25	inches		
On-site Water Quality Volume =	1331	cubic feet		
C	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 Volu	ume =	0	cubic feet	
Storage for Sedim	nent =	266		
Total Capture Volume (required water quality volume(s) x 1	.20) =	1597	cubic feet	
The following sections are used to calculate the required water quality	y volun	ne(s) for the	selected BMP.	
The values for BMP Types not selected in cell C45 will show NA.	-			
7. Retention/Irrigation System	[	Designed as	Required in RG-	348         Pages 3-42 to 3-46
Required Water Quality Volume for retention ba	asin =	NA	cubic feet	
Irrigation Area Calculations:				
Soil infiltration/permeability Irrigation a	rate = area =	<mark>0.1</mark> NA	in/hr I square feet acres	Enter determined permeability rate or assumed value of 0.1
8. Extended Detention Basin System	[	Designed as	Required in RG-	348 Pages 3-46 to 3-51
<u> </u>		g		
Required Water Quality Volume for extended detention ba	asin =	1597	cubic feet	
9. Filter area for Sand Filters	C	Designed as	Required in RG-	348 Pages 3-58 to 3-63
9A. Full Sedimentation and Filtration System				
Water Quality Volume for sedimentation ba	asin =	NA	cubic feet	
Minimum filter basin a	area =	NA	square feet	
Maximum sedimentation basin a Minimum sedimentation basin a	area = area =	NA NA	square feet	For minimum water depth of 2 feet For maximum water depth of 8 feet

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

# Project Name: HOFFMAN RV Park-DA-9 Date Prepared: 1/7/2025

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$ 

where:

\*

 $L_{M \text{ TOTAL PROJECT}}$  = Required TSS removal resulting from the proposed development = 80% of increased load  $A_{N}$  = 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 =	Comal	
Total project area included in plan *=	14.24	acres
Predevelopment impervious area within the limits of the plan * = _	2.11	acres
Total post-development impervious area within the limits of the plan* =	5.32	acres
Total post-development impervious cover fraction * =	0.37	
P =	33	inches
L <sub>M TOTAL PROJECT</sub> =	2881	lbs.
The values entered in these fields should be for the total project area.		

Number of drainage basins / outfalls areas leaving the plan area = 15



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

Drainage Basin/Outfall Area No. =	9	
Total drainage basin/outfall area =	2.90	acres
Predevelopment impervious area within drainage basin/outfall area =	0.76	acres
Post-development impervious area within drainage basin/outfall area =	1.32	acres
Post-development impervious fraction within drainage basin/outfall area =	0.46	
L <sub>M THIS BASIN</sub> =	503	lbs.

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

Proposed BMP = E	Extended D	etention
Removal efficiency =	75	percent

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

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

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

- $A_{C}$  = 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> =	2.90	acres
A <sub>I</sub> =	1.32	acres
A <sub>P</sub> =	1.58	acres
L <sub>R</sub> =	1151	lbs

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

Desired L <sub>M THIS BASIN</sub> =	503	lbs.		
F =	0.44			
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.			Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient =	0.34 0.33	inches		
On-site Water Quality Volume =	1209	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 =	0.00	acres		
Impervious fraction of off-site area =	0			
Off-site Runoff Coefficient =	0.00			

Summary Of Drainage Area Basins					
No	DA Names	Area		BMP Types for WQ treatment	Extra treatment Device for Basin
		Sq-Ft	Acres		
1	DA-1	54918.30	1.26	Sand Filter (WQ Pond-1)	Detention Pond-1
2	DA-2	12553.50	0.29	Swale-9	N/A
3	DA-3	3135.00	0.07	Natural Vegetated Filter Strip	N/A
4	DA-4	2395.00	0.05	Natural Vegetated Filter Strip	N/A
5	DA-5	15769.53	0.36	Swale-8	N/A
6	DA-5.1	8130.83	0.19	Swale-6	N/A
7	DA-6	9748.00	0.22	Natural Vegetated Filter Strip	N/A
8	DA-6.1	9922.88	0.23	Swale-7	N/A
9	DA-7	108613.95	2.49	Extended Detention( WQ Pond-2)	Detention Pond-2
10	DA-7.1	19583.20	0.45	Swale-5	N/A
11	DA-8	18472.12	0.42	Swale-3	N/A
12	DA-8.1	25938.35	0.60	Swale-4	N/A
13	DA-9	126260.80	2.90	Extended Detention Pond (WQ Pond 3)	Detention Pond-3
14	DA-10	4536.00	0.10	Swale-1	N/A
15	DA-10.1	14809.64	0.34	Swale-2	N/A

	Off-site Water Quality Volume =	• 0	cubic feet	
	Storage for Sediment =	242		
Total Capture Vol The following sections are u The values for BMP Types n	ume (required water quality volume(s) x 1.20) = sed to calculate the required water quality volu of selected in cell C45 will show NA	: 1451 Ime(s) for th	cubic feet e selected BMP.	
7. Retention/Irrigation System	<u>m</u>	Designed a	s Required in RG-	-348 Pages 3-42 to 3-46
Re	equired Water Quality Volume for retention basin =	NA	cubic feet	
Irrigation Area	a Calculations:			
	Soil infiltration/permeability rate = Irrigation area =	• 0.1 • NA NA	in/hr square feet acres	Enter determined permeability rate or assumed value of 0.1
8. Extended Detention Basin	<u>System</u>	Designed as	s Required in RG-	-348 Pages 3-46 to 3-51
Required Wa	ater Quality Volume for extended detention basin =	1451	cubic feet	
9. Filter area for Sand Filters		Designed a	s Required in RG-	-348 Pages 3-58 to 3-63
<u>9A. Full Sedi</u>	mentation 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 2 feet For maximum water depth of 8 feet


Length of Swale for Water Quality							
	Total Drainage Basin Area 10:		4536 SQ FT	0.10 acres			
	Downstream Drainage Basin Ar	rea (DA10):	2925 SQ FT	0.07 acres			
	C-Value (100-Year)						
	Impervious	0.97	2551 SQ FT				
	Pervious	0.36	374 SQ FT				
	Composite C-Value:		0.89				
	Rainfall Intensity:		1.1 in/hr				
	Q=CiA		0.07 cfs				

Provided residence time	e: 5.9	9 minutes		
Min Required residence	e time	5 minutes		
Swale Dimensions:	Area Bottom Width Side Slopes Depth Top Width Length: Begin ELEV: End ELEV: Longitudinal slope:	0.62 SQ-FT 2 FT 3 :1 0.23 FT 3.38 FT 112.00 FT 824.3 821.50 2.50%	Q100(cfs)	0.96

The proposed 112' long grass lined swale with a slope of 2.5% has been designed to provides 5 minute residence time for water quality purposes.





Length of	Swale for Water Quality				
	Total Drainage Basin Area DA-	10.1:	1480	9.64 SQ FT	0.34 acres
	Downstream Drainage Basin A	rea (DA-10.1):		<mark>7948</mark> SQ FT	0.18 acres
	-				
	C-Value (100-Year)				
	Impervious	0.97	1	2782 SQ FT	
	Pervious	0.36	!	5166 SQ FT	
	Composite C-Value:			0.57	
	Rainfall Intensity:			1.1 in/hr	
	Q=CiA			0.12 cfs	

	Velocity: Length:	0.11 feet/second 67.00 Feet		
Provided residence tin	ne:	10.3 minutes		
Min Required residence	ce time	5 minutes		
Swale Dimensions:	Area	1.06 SQ-FT		
	Bottom Width	2.5 FT		
	Side Slopes	3:1		
	Depth	0.31 FT		
	Top Width	4.36 FT		
	Length:	93.00 FT		
	Begin ELEV:	821.825		
	End ELEV:	819.50	Q100(cfs)	2.11
	Longitudinal slope	2.50%	Q <sub>100</sub> depth(ft)	0.31

The proposed 93.0' long grass lined swale with a slope of 2.5% has been designed to provide 5 minute residence time for water quality purposes.





Length of	Swale for Water Quality				
	Total Drainage Basin Area DA-	-8 :	1847	72.12 SQ FT	0.42 acres
	Downstream Drainage Basin A	Area (DA-8):		3920 SQ FT	0.09 acres
	C-Value (100-Year)				
	Impervious	0.97		1340 SQ FT	
	Pervious	0.36		2580 SQ FT	
	Composite C-Value:			0.57	
	Rainfall Intensity:			1.1 in/hr	
	Q=CiA			0.06 cfs	

	Velocity: Length:	0.03 <b>15.00</b>	feet/second Feet		
Provided residence tim	ne:	7.3	minutes		
Min Required residence	e time	5	minutes		
Swale Dimensions:	Area Bottom Width Side Slopes Depth Top Width Length: Begin ELEV:		1.65 SQ-FT 4 FT 3 :1 0.33 FT 5.98 FT 309.00 FT 886.225		
	End ELEV: Longitudinal slope	:	878.50 2.50%	Q100(cfs) Q <sub>100</sub> depth(ft)	3.56 0.33

The proposed 309.0' long grass lined swale with a slope of 2.50% has been designed to provide more than 5 minute residence time for water quality purposes.





Swale for Water Quality				
Total Drainage Basin Area (DA-	-8.1):	2593	8.35 SQ FT	0.60 acres
Downstream Drainage Basin A	rea (DA-8.1):	3	3051 SQ FT	0.07 acres
C-value (100-Year)				
Impervious	0.97	-	1340 SQ FT	
Pervious	0.36	Í	1711 SQ FT	
Composite C-Value:			0.63	
Rainfall Intensity:			1.1 in/hr	
Q=CiA			0.05 cfs	
	Swale for Water Quality Total Drainage Basin Area (DA- Downstream Drainage Basin A C-Value (100-Year) Impervious Pervious Composite C-Value: Rainfall Intensity: Q=CiA	Swale for Water Quality Total Drainage Basin Area (DA-8.1): Downstream Drainage Basin Area (DA-8.1): C-Value (100-Year) Impervious 0.97 Pervious 0.36 Composite C-Value: Rainfall Intensity: Q=CiA	Swale for Water Quality Total Drainage Basin Area (DA-8.1): 2593 Downstream Drainage Basin Area (DA-8.1): 3 C-Value (100-Year) Impervious 0.97 3 Pervious 0.36 3 Composite C-Value: Rainfall Intensity: Q=CiA	Swale for Water QualityTotal Drainage Basin Area (DA-8.1):25938.35 SQ FTDownstream Drainage Basin Area (DA-8.1):3051 SQ FTC-Value (100-Year)ImperviousImpervious0.971340 SQ FTPervious0.361711 SQ FTComposite C-Value:0.63Rainfall Intensity:1.1 in/hrQ=CiA0.05 cfs

	Velocity: Length:	0.02 feet/second 20.00 Feet		
Provided residence tir	ne:	15.3 minutes		
Min Required residen	ce time	5 minutes		
Swale Dimensions:	Area Bottom Width Side Slopes Depth Top Width Length: Begin ELEV: End FLEV:	2.22 SQ-FT 5.75 FT 3 :1 0.33 FT 7.73 FT 410.90 FT 885.52 875.25	Q100(cfs)	4.87
	Longitudinal slope	2.50%	Q <sub>100</sub> depth(ft)	0.33

The proposed 410.90' long grass lined swale with a slope of 2.5 % has been designed to provide more than 5 minute residence time for water quality purposes.





Length of	Swale for Water Quality				
	Total Drainage Basin Area (DA	-7.1):	19583.2	SQ FT	0.45 acres
	Downstream Drainage Basin A	rea (DA-7.1):	4102	SQ FT	0.09 acres
	C-Value (100-Year)				
	Impervious	0.97	1340	SQ FT	
	Pervious	0.36	2762 \$	SQ FT	
	Composite C-Value:		0.56		
	Rainfall Intensity:		1.1 i	in/hr	
	Q=CiA		0.06 (	cfs	

	Velocity: Length:	0.04 feet/second 16.00 Feet		
Provided residence tim	ne:	7.2 minutes		
Min Required residence	e time	5 minutes		
Swale Dimensions:				
	Area	1.56 SQ-FT		
	Bottom Width	3.75 FT		
	Side Slopes	3:1		
	Depth	0.33 FT		
	Top Width	5.73 FT		
	Length:	234.20 FT		
	Begin ELEV:	828.11		
	End ELEV:	822.25	Q100(cfs)	3.35
	Longitudinal slope	2.50%	Q <sub>100</sub> depth(ft)	0.33

The proposed 234.20' long grass lined swale with a slope of 2.5% has been designed to provide more than 5 minute residence time for water quality purposes.





Length of S	Length of Swale for Water Quality						
	Total Drainage Basin Area (DA-	5.1):	8130.8	333 SQ FT	0.19 acres		
	Downstream Drainage Basin Ar	rea (DA-5.1):	4642.	. <mark>86</mark> SQ FT	0.11 acres		
	C-Value (100-Year)						
	Impervious	0.97	10	145 SQ FT			
	Pervious	0.36	3597.	.86 SQ FT			
	Composite C-Value:		0.	.50			
	Rainfall Intensity:		1	1.1 in/hr			
	Q=CiA		0.	.06 cfs			

	Velocity: Length:	0.04 feet/second 50.00 Feet		
Provided residence tin	ne:	23.5 minutes		
Min Required residence	ce time	5 minutes		
Swale Dimensions:		4 65 60 57		
	Area	1.65 SQ-FT		
	Bottom Width	4 FT		
	Side Slopes	3 :1		
	Depth	0.33 FT		
	Top Width	5.98 FT		
	Length:	59.00 FT		
	Begin ELEV:	812.49		
	End ELEV:	811.90	Q100(cfs)	3.48
	Longitudinal slope	2: 1.00%	Q <sub>100</sub> depth(ft)	0.33

The proposed 59.0' long grass lined swale with a slope of 1% has been designed to provide more than 5 minute residence time for water quality purposes.





Length of	Swale for Water Quality				
	Total Drainage Basin Area (DA	-06.1):	9922.885	SQ FT	0.23 acres
	Downstream Drainage Basin Area (DA-06):		4642.86	SQ FT	0.11 acres
	C-Value (100-Year)				
	Impervious	0.97	4642.86	SQ FT	
	Pervious	0.36	0 SQ FT		
	Composite C-Value:	0.97			
	Rainfall Intensity:	1.1	in/hr		
	Q=CiA		0.11	cfs	

	Velocity: Length:	0.07 fee 61.00 Fee	et/second		
Provided residence tin Min Required residence	ne: Se time	14.7 mii 5 mii	nutes		
 inin negarica resident		5 1111			
Swale Dimensions:					
	Area		1.65 SQ-FT		
	Bottom Width		<b>4</b> FT		
	Side Slopes		<mark>3</mark> :1		
	Depth		0.33 FT		
	Top Width		5.98 FT		
	Length:		61.00 FT		
	Begin ELEV:		814.47		
	End ELEV:		812.945	Q100(cfs)	3.52
	Longitudinal slope	:	2.5%	Q <sub>100</sub> depth(ft)	0.33

The proposed 61.0' long grass lined swale with a slope of 2.5% has been designed to provide more than 5 minute residence time for water quality purposes.





Length of	Swale for Water Quality				
	Total Drainage Basin Area (DA-	5): <mark>1</mark>	5769.53 SQ FT	0.36 acres	
	Downstream Drainage Basin A	rea (DA-5):	2649 SQ FT	0.06 acres	
	C-Value (100-Year)				
	Impervious	0.97	1340 SQ FT		
	Pervious	0.36	1309 SQ FT		
	Composite C-Value:		0.67		
	Rainfall Intensity:		1.1 in/hr		
	Q=CiA		0.04 cfs		

	Velocity: Length:	0.02 feet/second 10.00 Feet		
Provided residence tim	ie:	7.4 minutes		
Min Required residenc	e time	5 minutes		
Swale Dimensions:	<b>1</b>	1 00 00 57		
	Area	1.98 SQ-FT		
	Bottom Width	5 FT		
	Side Slopes	<mark>3</mark> :1		
	Depth	0.33 FT		
	Top Width	6.98 FT		
	Length:	175.00 FT		
	Begin ELEV:	810.25		
	End ELEV:	806.75	Q100(cfs)	2.69
	Longitudinal slope:	2.0%	Q <sub>100</sub> depth(ft)	0.33

The proposed 175.0' long grass lined swale with a slope of 2% has been designed to provide more than 5 minute residence time for water quality purposes.





Length of	Swale for Water Quality				
	Total Drainage Basin Area (DA	A-2):	12553.	.5 SQ FT	0.29 acres
	Downstream Drainage Basin Area (DA-2):		4642.8	6 SQ FT	0.11 acres
	C-Value (100-Year)				
	Impervious	0.97	104	5 SQ FT	
	Pervious	0.36	3597.8	36 SQ FT	
	Composite C-Value:		0.5	50	
	Rainfall Intensity:		1.	.1 in/hr	
	Q=CiA		0.0	06 cfs	

	Velocity: Length:	0.04 feet/second 33.00 Feet		
Provided residence tir	ne:	14.4 minutes		
Min Required residen	ce time	5 minutes		
Swale Dimensions:	Area Bottom Width	1.53 SQ-FT <b>4</b> FT		
	Side Slopes Depth	3 :1 0.31 FT		
	Top Width Length: Begin ELEV:	5.86 FT 201.90 FT 809.37		
	End ELEV: Longitudinal slope	807.35 e: 1.0%	Q100(cfs) Q <sub>100</sub> depth(ft)	1.93 0.31

The proposed 201.9' long grass lined swale with a slope of 1% has been designed to provide more than 5 minute residence time for water quality purposes.



#### **Texas Commission on Environmental Quality** Contributing Zone Plan **General Construction Notes**

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approv by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, o curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aguifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or an other applicable TCEQ regulation, as well as all conditions of an Edwards Aguifer Protection Plan through all phases of plan implementation Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulati

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any ground disturbance or construction activities. This notice must

include: - the name of the approved project;

the activity start date; and

- the contact information of the prime contractor.

2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter on site. 3. No hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.

4. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized. 5. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features,

6. Sediment must be removed from the sediment traps or sedimentation basins when it occupies 50% of the basin's design capacity.

7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.

8. All excavated material that will be stored on-site must have proper E&S controls. 9. If portions of the site will have a cease in construction activity lasting longer than 14 days, soil TCEQ-0592A (Rev. July 15, 2015) Page 2 of 2

stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible. 10. The following records should be maintained and made available to the TCEQ upon request:

- the dates when major grading activities occur; - the dates when construction activities temporarily or permanently cease on a

portion of the site; and - the dates when stabilization measures are initiated.

11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following: A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;

B. any change in the nature or character of the regulated activity from that which was originally approved;

C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or

D. any development of land previously identified as undeveloped in the approved contributing zone plan. Austin Regional Office

> 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2929 Fax (512) 339-3795

San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS

## BENCHMARK

TBM#1 SET MAG W/WASHER. TRI-TECH CONTROL, ELEV.=830.48' A MAG NAIL W/WASHER SET APPROXIMATELY 32' SOUTH EAST OF WEST PROPERTY CORNER, ON HOFFMAN LN EDGE OF

ASPHALT . N 13835055.5852', E 2255490.1839'

ELEVATION 830.48' (NAVD88)

TBM#2 TRI-TECH CONTROL CAP, TRI-TECH CONTROL CAP SET NEAR ROW APPROXIMATELY 33' FROM SOUTHEAST OF NORTH PROPERTY CORNER. N 13837855.9256', E 2258201.2739 ELEVATION 810.97' (NAVD88)

#### \*\*\* CAUTION: NOTICE TO CONTRACTOR \*\*\*

THE CONTRACTOR SHALL NOTE ON SITE PLAN THE LOCATION OF ALL MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREAS, PETROLEUM TANKS, SOLID WASTE RECEPTACLES, SANITARY FACILITIES, ANY ON-SITE OR OFF-SITE BORROW OR STOCKPILE AREA ANY ON-SITE OR OFF-SITE SUPPORT ACTIVITIES (SUCH AS ASPHALT OR CONCRETE PLANTS). CONTRACTOR SHALL ALSO PREPARE, KEEP ON SITE, AND MAINTAIN CURRENT A LIST OF MATERIALS WITH APPROXIMATE QUANTITIES, WHICH ARE STORED ON SITE.

# SITE DEVELOPMENT PLANS FOR **HOFFMAN RV PARK RV PARK SITE DEVELOPMENT** A-306 SUR- 3 N KENNER, ACRES 14.24 COMAL COUNTY, TEXAS

LOCATION MAP Shooting Stat Rd Roamp Oaks Dr Rolling Oak Dr Colimp Claks Er Oak Mollow OF Cak Hollow D. Dak Hollow Dr SITE Princip Plan Pinnacle Pkway

F	LOOD INFOR	MATION 🚔
F.I.R.M. NO	48091C	PANEL:0290- F
REVISED DATE	E SEP. 02, 2009	20NE: X
FLOOD INFORMATIC THE LOCATION O INSURANCE RATE I TO DETERMINE FL INTENDED TO IDEN ARE NOT RESPONS	ON PROVIDED HEF F THE SUBJECT MAPS. THE INFO OOD INSURANCE ITIFY SPECIFIC FI IBLE FOR THE F.I.F	REON IS BASED ON SCALING TRACT ON THE FLOOD RMATION SHOULD BE USED RATES ONLY AND IS NOT LOODING CONDITIONS. WE R.M.'S ACCURACY.

2	ADDED SI	HEET 9.	10/	17/18
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	1 OF	8		

### SHEET INDEX

COVER SHEET

- 2. (OVER ALL SITE PLAN& DRAINAGE BOUNDARIES)
- 3. (DETENTION POND & WATER QUALITY POND-01 SECTION)
- 4. SAND FILTER, (WATER QUALITY POND-01)
- 5. (DETENTION & WATER QUALITY POND 02)
- 6. (DETENTION & WATER QUALITY POND 03)
- 7. ROAD PROFILE @ EXISTING SPILLWAY & PARTIAL GRADING
- 8. (ROAD & SWALES SECTIONS)

## OWNER:

NPC BRAUNFELS, LLC 809 S LAMAR BLVD SUITE D AUSTIN, TX 78704 PH: (512) 230-9867 CORT@NEXUSLENDING.NET CONTACT: CORT CHALFANT

ENGINEER:

TRI-TECH ENGINEERING, LP 155 RIVERWALK DRIVE SAN MARCOS, TX 78666

PH: (512) 440-0222 CONTACT: AL CARROLL, PE

SURVEYOR:

TRI-TECH SURVEYING CO., L.P. 155 RIVERWALK DRIVE SAN MARCOS, TX 78666

PH: (512) 440-0222 CONTACT: CODY CONDRON

NOTE

1. THIS PROJECT IS SUBJECT TO TPDES AND SWPPP REGULATIONS.

STOP!! CALL BEFORE YOU DIG

AS REQUIRED BY "TEXAS ADMINISTRATIVE CODE TITLE 16, PART 1

CH. 18," TEXAS ONE CALL SYSTEM MUST BE CONTACTED (811) AT

LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING

PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

2. THIS PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER

3. FLOOD HAZARD AREA, PER FEMA FLOODPLAIN

RECHARGE ZONE.

(48091C0290F, EFF.09/02/2009)

NO REVISION 

REVISED SHEET 5 8

8/22/18



![](_page_83_Figure_0.jpeg)

![](_page_83_Figure_1.jpeg)

Notes: 2. All berms steeper than 1V: 3H should be lined with concrete.

![](_page_84_Figure_0.jpeg)

1	00100
1	TOW ELEV=807
0	46,6' LF DF UPSTREAM FL DOWNSTREAM
)9	
8	FLOW IN C
)7	
6	
5	
	2% SLOD
4	
3	
2	PIPES 1% SLOPE,
1	

Notes: . Earthen berm shall have 1V: 3H slopes. 2. All berms steeper than 1V: 3H should be lined with concrete.

![](_page_85_Figure_0.jpeg)

![](_page_85_Figure_1.jpeg)

SECTION A-A HORIZONTAL SCALE 1"=20' VERTICAL SCALE 1"=2'

Notes: 1. Earthen berm shall have 1V: 3H slopes. 2. All berms steeper than 1V: 3H should be lined with concrete.

- 2. TOS= TOP OF SAND.
- 3. WQSE WATER QUALITY SURFACE ELEVATION.
- 4. TOB= TOP OF BANK. 5. TOG= TOP OF GABION WALL.
- 6. FL= FLOW LINE ELEVATION.
- 7. FG= FORMED GRADE.
- 8. PG= PROPOSED GRADE (SAME LIKE FG). 9. EP= EDGE OF PAVEMENT.
- 10. 100 WSE= 100 Year Water Surface Elevation.

![](_page_85_Figure_11.jpeg)

PROPOSED GRADE

18" PIPE@1.37% SLOPE DISCHARGED BY SPILLWAY

![](_page_85_Figure_12.jpeg)

SECTION C-C

HORIZONTAL SCALE 1"=20' VERTICAL SCALE 1"=2'

WQV Pond (Second stage after Forebay) STAGE vs. AREA vs. STORAGE ELEV. AREA VOLUME VOLUME DEPTH (ft2) (#3) (ft3)818.00 1158 473 Forebay volume 1631 Total Provided Volume 1597 Required Volume+20

25	Forebay POND Captured Volume								
			Tituo		1				
			INC.	CUM.					
	ELEV.	AREA	VOLUME	VOLUME	DEPTH				
	(ft)	(ft2)	(ft3)	(ft3)	(ft)				
	815.50	74		0	0				
	818.00	304	473	473	2.50				
	(WQV+20	1%)		1597					

SAHPE R

EL=819.26'

DA-07 Catch Basin & Storm convey type design datas									
V-shape	Slop	be (%)	V shape	V shape	Elev (ft)	Pipe In	vElev (ft)	Pomot/o	
	Area(sq-ft)			hight(ft)					Remarks
		V-shape	Pipe		Upstream	Downstrea	Upstream	Downstream	
	2.88	5.44%	NA	0.24	884.1	831.5	NA	NA	
	2.88	4.28%	4.35%	0.24	831.5	819.25	828.25	816	
	NA	NA	1.16%	NA	NA	NA	815.5	814.85	
	2.88	NA	3.04%	NA	NA	NA	816.1	814.85	

![](_page_85_Figure_16.jpeg)

6" CAP 0.75" ORIFICE

-FL= 815.85'

CAP DETAIL @ END OF 6" PIPE

![](_page_86_Figure_0.jpeg)

![](_page_86_Figure_1.jpeg)

INC. CUM. VOLUME VOLUME DEPTH (ft3) (ft3) (ft) LEV. AREA (ft2) 267 2.00 4.50 158 267 1451 (WQV+20%)

STAGE vs. AREA vs. STORAGE									
		INC.	CUM.						
ELEV.	AREA	VOLUME	VOLUME	DEPTH					
ft)	(ft2)	(ft3)	(ft3)	(ft)					
820.10	0		0	0					
821.45	2810	1897	1897	1.35					
Re	equired volu	1451							

Notes: 1. Earthen berm shall have 1V: 3H slopes. 2. All berms steeper than 1V: 3H should be lined with

concrete.

![](_page_87_Figure_0.jpeg)

![](_page_87_Figure_1.jpeg)

![](_page_87_Figure_2.jpeg)

ABBREVIATIONS:

- 1. TOW= TOP OF WALL 2. TOS= TOP OF SAND.

- 7. FG= FORMED GRADE.
- 8. PG= PROPOSED GRADE (SAME LIKE FG). 9. EP= EDGE OF PAVEMENT.
- 10. 100 WSE= 100 Year Water Surface Elevation.

Notes: 1. Earthen berm shall have 1V: 3H slopes. 2. All berms steeper than 1V: 3H should be lined with concrete.

CHECKED BY: AL DESIGN BY: RM & AL DATE: 01/07/2025

SCALE: AS SHOWN

7 of 8

SHEET:

![](_page_88_Figure_0.jpeg)

Attachments

#### ATTACHMENT "G"

#### Inspection, Maintenance, Repair and Retrofit Plan

#### Inspection and Maintenance Plan

The property owner shall be responsible for inspection, maintenance, repair and retrofit of bioretention ponds.

- 1. Inspections. BMP facilities should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately.
- 2. Sediment Removal. Remove sediment from the facility when sediment depth reaches 3 inches or when the sediment interferes with the health of vegetation or ability of the facility to meet required drawdown times. Sediment removal should be performed at least every 2 years.
- 3. Drain Time. When the drain time exceeds 72 hours as observed in the observation well, the filter media should be removed and replaced with more permeable material.
- 4. Vegetation. All dead and diseased vegetation considered beyond treatment shall be removed and replaced during semi-annual inspections. Diseased trees and shrubs should be treated during inspections. Rematch any bare areas by hand whenever needed. Replace mulch annually in the spring, or more frequently if needed, in landscaped areas of the basin where grass or groundcover is not planted. Grass areas in and around bioretention facilities must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.
- 5. Debris and Litter Removal. Debris and litter will accumulate in the facility and should be removed during regular mowing operations and inspections.
- 6. Filter Underdrain. Clean underdrain piping network to remove any sediment buildup every 5 years, or as needed to maintain design drawdown time.

#### **Owner's Information:**

Owner: <u>NPC Braunfels</u>, LLC Contact: <u>Cortlandt Chalfant</u>

Phone: (512) 230-9867

Address: 809 S. Lammar Blvd. Suite D

Austin, Texas 78704

#### **Design Engineer:**

Owner:Tri-Tech Engineering, LPContact:Al Carroll, P.E.

Phone: (512) 440-0222

Address: 155 Riverwalk Drive

San Marcos, Texas 78666

(Hoffman RV Park) Water Pollution Abatement Plan Permanent Stormwater

Attachments

#### Person Or Firm Responsible for Erosion/Sedimentation Control Maintenance:

Owner: <u>NPC Braunfels</u>, LLC Contact: <u>Cortlandt Chalfant</u>

Phone: (512) 230-9867

Address: 809 S. Lammar Blvd. Suite D

Austin, Texas 78704

Signature of Responsible Party :

plante

NPC New Braunfels, LLC Water Pollution Abatement Plan

#### ATTACHMENT "H"

Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs

N/A

<u>ATTACHMENT "I"</u> Measures for Minimizing Surface Stream Contamination

N/A

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

I Cort Chalf	ant
	Print Name
Manager, NI	PC Management, Manager
	Title - Owner/President/Other
of	NPC New Braunfels, LLC
<u> </u>	Corporation/Partnership/Entity Name
have authorized _	Al Carroll, P.E.
	Print Name of Agent/Engineer
of	Tri-Tech Engineering, L.P.
	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:

cant's Signature

9/9/2024 Date

THE STATE OF <u>Texas</u> §

County of <u>Comal</u> §

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

GIVEN under my hand and seal of office on this <u>9th</u> day of <u>Sept.</u>, <u>2024</u>.

![](_page_93_Picture_7.jpeg)

Savo

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 4-4-2028

## **Application Fee Form**

Name of Proposed Regulated Entity: NPC New Brounfe	ls, LLC		
Regulated Entity Location: 1950 Hoffman Lane, New Bro	unfels, Texas,	78132	_
Name of Customer: Cortlandt Chalfant	(		
Contact Person: Al Carroll, P.E. Phon	ie: <u>(512) 440</u> –	0222	
Customer Reference Number (if issued):CN IBD			
Regulated Entity Reference Number (if issued):RN IBD			
Austin Regional Office (3373)			
Hays Travis		W	illiamson
San Antonio Regional Office (3362)			
Bexar Medina		UV	valde
Comal Kinney			
Application fees must be paid by check, certified check, o	or money ordei	, payab	le to the <b>Texas</b>
Commission on Environmental Quality. Your canceled of	heck will serve	as you	r receipt. This
form must be submitted with your fee payment. This p	ayment is bein	g submi	itted to:
Austin Regional Office	an Antonio Rea	gional C	office
Mailed to: TCEO - Cashier	vernight Deliv	erv to: 1	ICEQ - Cashier
Revenues Section 1	2100 Park 35 (	ircle	•
Mail Code 214	Building A. 3rd I	Floor	
P.O. Box 13088	ustin. TX 7875	3	
Austin, TX 78711-3088 (	512)239-0357		
Site Location (Check All That Apply):			
Recharge Zone	Г	Transi	tion 7one
Type of Plan	Size		Fee Due
Water Pollution Abatement Plan, Contributing Zone		A	ć
Plan: One Single Family Residential Dwelling		Acres	\$
Water Pollution Abatement Plan, Contributing Zone	14.24	Acros	¢ 6 500
Water Pollution Abstement Plan, Contributing Zone	17.27	Acres	3 0,000
Plan: Non-residential		Acres	Ś
Plan: Non-residential Sewage Collection System		Acres	\$ \$
Plan: Non-residential Sewage Collection System Lift Stations without sewer lines		Acres L.F. Acres	\$ \$ \$
Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Storage Tank Facility		Acres L.F. Acres Tanks	\$ \$ \$ \$
Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Storage Tank Facility Piping System(s)(only)		Acres L.F. Acres Tanks Each	\$ \$ \$ \$ \$
Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Storage Tank Facility Piping System(s)(only) Exception		Acres L.F. Acres Tanks Each Each	\$ \$ \$ \$ \$
Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Storage Tank Facility Piping System(s)(only) Exception Extension of Time		Acres L.F. Acres Tanks Each Each Each	\$ \$ \$ \$ \$ \$ \$

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

1 of 2

## **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 an	d Modifications	
Project	Cost per Linear	Minimum Fee-
110jeet	7001	тахтантсс
Sewage Collection Systems	\$0.50	\$650 - \$6 <i>,</i> 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

![](_page_96_Picture_1.jpeg)

## **TCEQ Core Data Form**

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

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

1. Reason for Submission (If other is checked please des	cribe in space provided.)	
New Permit, Registration or Authorization ( <i>Core Data</i>	Form should be submitted with	the program application.)
Renewal (Core Data Form should be submitted with th	e renewal form)	Other
2. Customer Reference Number (if issued)	Follow this link to search	3. Regulated Entity Reference Number (if issued)
CN	<u>Central Registry**</u>	RN

### **SECTION II: Customer Information**

4. General Customer Information         5. Effective Date for Customer Information Updates (mm/dd/yyyy)													
New Custor	ner		Πυ	pdate to Cust	omer Informa	tion		Char	nge in R	egulated Ent	ity Own	ership	
Change in Le	egal Name (	Verifiabl	e with the Tex	kas Secretary	of State or Tex	as Com	ptrol	ler of Public	Accour	nts)			
The Custome	r Name su	bmitte	here may	be updated	automatical	ly base	ed or	n what is c	urrent	and active	with th	he Texas Seci	retary of State
(SOS) or Texa	s Comptro	oller of I	Public Accou	ints (CPA).									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)       If new Customer, enter previous Customer below:													
NPC New Braur	nfels, LLC												
7. TX SOS/CP	A Filing Nu	umber		8. TX State	<b>e Tax ID</b> (11 d	igits)			9. Fe	deral Tax I	D	10. DUNS	Number (if
0804862923				320877571	29				(9 dig	gits)		applicable)	
									97-15	597809			
11. Type of C	ustomer:		Corporation	tion				🗌 Individ	dual		Partne	ership: 🗌 Ger	eral 🗌 Limited
Government:	City 🗌 C	County [	Federal	Local 🗌 Stat	te 🗌 Other			Sole P	roprieto	orship	🛛 Ot	her: LLC	
12. Number o	of Employ	ees							13. l	ndepender	ntly Ow	ned and Ope	erated?
⊠ 0-20 □ 2	21-100	101-25	50 🗌 251-	500 🗌 50	1 and higher				X Ye	es	🗌 No		
14. Customer	Role (Prop	oosed or	Actual) – as i	t relates to th	e Regulated Er	ntity list	ted of	n this form.	Please (	check one of	the follo	owing	
Owner		Ope	erator		wner & Opera	ator				□ Other:			
Occupationa	al Licensee	L Re	esponsible Pa	rty	VCP/BSA App	olicant							
15. Mailing													
2.51 maning	1950 Hof	fman Lar	ne										
Address:	City	New B	raunfels		State	TX		ZIP	7813	2		ZIP + 4	
16. Country N	/lailing Inf	ormatio	on (if outside	USA)	[	1	17. E-Mail Address (if applicable)						
							COI	rt@nexusler	nding.n	et			
18. Telephon	18. Telephone Number 19. Extension of						ode			20. Fax N	umber	(if applicable)	

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
( 512 ) 230-9867		( ) -

## **SECTION III: Regulated Entity Information**

21. General Regulated E	ntity Informa	tion (If 'New Regula	ted Entity" is se	elected, a new	permit appl	ication is also requi	red.)	
New Regulated Entity	Update to	Regulated Entity Nar	me 🔲 Updat	te to Regulate	d Entity Info	rmation		
The Regulated Entity Na	me submitte	d may be updated	, in order to n	neet TCEQ Co	ore Data Si	andards (remov	al of organization	nal endings such
as Inc, LP, or LLC).								
22. Regulated Entity Nar	<b>me</b> (Enter nam	e of the site where th	ne regulated act	tion is taking p	olace.)			
NPC New Braunfels, LLC								
23. Street Address of	1950 Hoffm	an Lane						
the Regulated Entity:								
(No PO Boxes)	City	New Braunfels	State	ТХ	ZIP	78132	ZIP + 4	
24. County	Comal							

#### If no Street Address is provided, fields 25-28 are required.

25. Description to										
Physical Location:										
26. Nearest City	I					State		Nea	rest ZIP Code	
Latitude/Longitude are r used to supply coordinat	equired and es where no	l may be added/upa ne have been provi	lated to meet ded or to gail	: TCEQ Core I n accuracy).	Data Stand	lards. (Geo	coding of t	he Physical	Address may b	
27. Latitude (N) In Decim	al:	-98.087423	3	28. l	.ongitude (	W) In Decir	mal:	29.79	93629	
Degrees	Minutes	Seco	onds	Degn	ees	M	linutes		Seconds	
29. Primary SIC Code	30.	Secondary SIC Code		31. Prima	ry NAICS C	ode	32. Seco	ndary NAIC	CS Code	
(4 digits)	(4 d	igits)		<b>(</b> 5 or 6 digi	its)		(5 or 6 dig	gits)		
7033	379	2		721211 532120			532120			
33. What is the Primary I	Business of	this entity? (Do not	repeat the SIC	or NAICS desc	ription.)					
RV Park										
34. Mailing	1950 Hoff	man Lane								
	City	New Braunfels	State	тх	ZIP	78132		ZIP + 4		
35. E-Mail Address:	cort	@nexuslending.net	1						1	
36. Telephone Number		37	. Extension o	r Code	38.	Fax Numbe	<b>r</b> (if applicat	ble)		
( 512 ) 230-9867					(	) -				
EQ-10400 (11/22)									Page 2	

ror isishuous wimper	19. Extension or Code     20. Fax Number (if applicable)							
512)230-9867	( ) -							
ECTION TIT-	Pogul	atod Ent	ity Infor	matio	•			
21. General Regulated F	ntity Informa	ation //f 'New Rev	ulated Entity" is sel	ected a new	nermit applic	ation is also required )		
			Namo 🗍 Undate		d Entity Inform	nation		
The Regulated Entity Na as Inc, LP, or LLC).	me submitte	d may be upda	ted, in order to m	eet TCEQ Co	ore Data Sta	ndards (removal of	organizatio	nal endings such
22. Regulated Entity Na	<b>ne</b> (Enter narr	ne of the site when	re the regulated acti	on is taking p	lace.)			
NPC New Braunfels, LLC								
23. Street Address of	1950 Hoffm	ian Lane						
he Regulated Entity:								
(No PO Boxes)	City	New Braunfels	State	тх	ZIP	78132	ZIP + 4	
24. County	Comal				<u> </u>			
		If no Stre	et Address is prov	ided, fields	25-28 are re	equired.		
25. Description to								
hysical Location:								
26. Nearest City	-L					State	Nea	rest ZIP Code
atitude/Longitude are	required and	may be added	/updated to meet	TCEQ Core	Data Stando	ards. (Geocoding of	the Physica	Address may be
ised to supply coordinat	tes where no	ne have been p	rovided or to gair	n accuracy).				
27. Latitude (N) In Decin	mal: -98,087.		423	28.	Longitude (V	V) In Decimal:	29.79	93629
Degrees	Minutes	I	Seconds De		Degrees Minutes			Seconds
		1						,
29. Primary SIC Code	30.	Secondary SIC	Code	31. Prima	ry NAICS Co	de 32. Sec	ondary NAI	CS Code
29. Prímary SIC Code 4 digits)	<b>30.</b> (4 d	Secondary SIC	Code	<b>31. Prima</b> (5 or 6 dig	i <b>ry NAICS Co</b>	de 32. Sec (5 or 6 c	ondary NAI ligits)	CS Code
29. Primary SIC Code 4 digits) '033	<b>30.</b> (4 d	Secondary SIC igits) 2	Code	<b>31. Prima</b> (5 or 6 dig	r <b>y NAICS Co</b> its)	de 32. Sec (5 or 6 c 532120	ondary NAI(	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary	30. (4 d 379 Business of t	Secondary SIC ( igits) 2 his entity? (D	Code	31. Prima (5 or 6 dig 721211 or NAICS desi	ry NAICS Co its) cription.)	de 32. Sec (5 or 6 c 532120	ondary NAI( ligits)	CS Code
29. Primary SIC Code 4 digits) 7033 13. What is the Primary	30. (4 d 379 Business of t	Secondary SIC igits) 2 his entity? (D	Code o not repeat the SIC	<b>31. Prima</b> (5 or 6 dig 721211 or NAICS desc	ry NAICS Co its) cription.)	de 32. Sec (5 or 6 c 532120	ondary NAI( ligits)	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary RV Park	30. (4 d 379 Business of t	Secondary SIC igits) 2 his entity? (D	Code	<b>31. Prima</b> (5 or 6 dig 721211 or NAICS desi	ry NAICS Co its) cription.)	de 32. Sec (5 or 6 c 532120	ondary NAI( ligits)	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary 8V Park 84. Mailing	30. (4 d 379 Business of t	Secondary SIC igits) 2 his entity? (D	Code	<b>31. Prima</b> (5 or 6 dig 721211 or NAICS desc	ry NAICS Ca its) cription.)	de 32. Sec (5 or 6 c 532120	ondary NAI	CS Code
29. Primary SIC Code 4 digits) 7033 83. What is the Primary RV Park 84. Mailing Address:	30. (4 d 379 Business of t 1950 Hoffr	Secondary SIC igits) 2 his entity? (D nan Lane	Code	<b>31. Prima</b> (5 or 6 dig 721211 or NAICS desc	ry NAICS Co its) cription.)	de 32. Sec (5 or 6 c 532120	ondary NAI(	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary XV Park 44. Mailing Address:	30. (4 d 379 Business of t 1950 Hoffr City	Secondary SIC igits) 2 his entity? (D nan Lane New Braunfels	Code	31. Prima (5 or 6 dig 721211 or NAICS desu	ry NAICS Co its) cription.)	rde 32. Sec (5 or 6 c 532120 78132	ondary NAI( ligits) ZIP + 4	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary RV Park 34. Mailing Address: 35. E-Mail Address:	30. (4 d 379 Business of t 1950 Hoffr City cort	Secondary SIC igits) 2 his entity? (D nan Lane New Braunfels @nexuslending.r	Code	31. Prima (5 or 6 dig 721211 or NAICS desc	ry NAICS Co its) cription.)	rde 32. Sec (5 or 6 c 532120 78132	ondary NAI( ligits) ZIP + 4	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary V Park 34. Mailing Address: 15. E-Mail Address: 16. Telephone Number	30. (4 d 379 Business of t 1950 Hoffr City cort	Secondary SIC igits) 2 his entity? (D nan Lane New Braunfels @nexuslending.r	Code Code State State State State State	31. Prima (5 or 6 dig 721211 or NAICS desc TX	ry NAICS Co its) cription.) ZIP 38. F	ide     32. Sec       (5 or 6 c       532120       78132	ondary NAI( ligits) ZIP + 4	CS Code
29. Primary SIC Code 4 digits) 7033 33. What is the Primary V Park 44. Mailing Address: 15. E-Mail Address: 16. Telephone Number 512 ) 230-9867	30. (4 d 379 Business of t 1950 Hoffr City cort	Secondary SIC ( igits) 2 :his entity? (D nan Lane New Braunfels @nexuslending.r	Code Code State St	31. Prima (5 or 6 dig 721211 or NAICS desc TX TX	ry NAICS Co its) cription.) ZIP 38. F	ide     32. Sec       (5 or 6 c     532120       78132     78132	ondary NAI iigits) ZIP + 4 able)	CS Code

Dam Safety	Districts	Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
Municipal Solid Waste	New Source Review Air	OSSF	Petroleum Storage Tank	D PWS
Sludge	Storm Water	Title V Air	Tires	Used Oil
Voluntary Cleanup	U Wastewater	Wastewater Agriculture	Water Rights	Other:

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

40. Name:	Al Carroll Jr., P.E.			41. Title:	Civil Engineer Manager
42. Telephone Number 43. Ext.,		43. Ext./Code	44. Fax Number	45. E-Mail Address	
( 512 ) 440-0222			( ) -	acrarroll@tri	techtx.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:	Tri-Tech Engineering, L.P.	Job Title:	Civil Engineering Manager		
Name (In Print):	Al Carroll, P.E.			Phone:	( 512 ) 440- <b>2220</b>
Signature:	ao ce l.			Date:	