Bryan W. Shaw, Ph.D., *Chairman* Buddy Garcia, *Commissioner* Carlos Rubinstein, *Commissioner* Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 10, 2011

RECEIVED

DEC 0 6 2011

COUNTY ENGINEER

1741 Herblin Rd. New Braunfels, Texas 78132

Dry Comal Creek Vinevards, Inc.

Mr. Franklin Houser

Re: Edwards Aquifer, Comal County

Name of Project: Dry Comal Creek Vineyards; Located at 1741 Herblin Rd., approximately 0.30 miles south of the Herblin Rd and SH 46 intersection near Cranes Mill Rd; Comal County, Texas

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

Edwards Aquifer Protection Program San Antonio File No. 3000.00; Investigation No. 948278; Regulated Entity No. RN106201189

Dear Mr. Houser:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP Application for the above-referenced project submitted to the San Antonio Regional Office by HMT Engineering & Surveying on behalf of Mr. Franklin Houser on August 1, 2011. Final review of the WPAP was completed after additional material was received on October 10, October 20, and November 10, 2011. As presented to the TCEQ, the Temporary Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

Background

The above referenced site is an 18.44 acre commercial vineyard and event center containing an existing residential structure and driveway built in the 1950's. The commercial winery contains four buildings with associated access drives, parking areas, on-site sewage facility, and vineyard area all constructed between the 1970's to the present. Prior approval for the construction of the

REPLY TO: REGION 13 • 14250 JUDSON RD. • SAN ANTONIO, TEXAS 78233-4480 • 210-490-3096 • FAX 210-545-4329

commercial winery was not obtained in accordance with applicable Edwards Aquifer Recharge Zone rules. The submitted WPAP, approved by this letter, addresses the unauthorized activities.

Project Description

The proposed commercial project is located in the 18.44 acre site. It will include the construction and installation of an on-site sewage facility and associated utility lines. This approval also includes the existing structures and other impervious cover constructed without prior approval. The total impervious cover for the site will be 2.39 acres (12.95 percent). According to a letter dated, May 31, 2011, signed by Mr. Robert Boyd, P.E., with Comal County, the site in the development is acceptable for the use of on-site sewage facilities.

Permanent Pollution Abatement Measures

This small business will not have more than 20 percent impervious cover.

Geology

According to the geologic assessment included with the application, the site is located on the Dolomitic Member of the Edwards Kainer Formation with a northeast portion of the site located on the Quaternary Alluvium. The geologic assessment noted five geologic and four man-made features, of which, Feature S-2 (cave) was assessed as sensitive. The San Antonio Regional Office site assessment conducted on October 4, 2011 revealed no new features and that the site was generally as described in the application.

Sensitive Features

Feature S-2 is located on a cliff face within a portion of the site that is shown as not to be disturbed.

Special Conditions

- 1. The applicant requested a waiver to the requirement for other permanent BMPs for this commercial project because the development will have less than 20 percent impervious cover. Based on the TCEQ's Review of the proposed activities and the site conditions, the required waiver is hereby granted. If the percent impervious cover ever increases above 20 percent or the land use changes, the exemption for the whole site as described in the Water Pollution Abatement Plan may no longer apply and the property owner must notify the San Antonio Regional Office of these changes.
- 2. This approval letter is being issued for regulated activities (as defined in Chapter 213) and for best management practices presented in the application. This approval does not constitute a water right permit or authorization from the TCEQ Dam Safety Program. Failure to obtain all necessary authorizations could result in enforcement actions. For more information on Water Rights Permits, please refer to: http://www.tceq.texas.gov/permitting/water-rights/wr-amirequlated.html

For more information on the Dam Safety program, please refer to: <u>http://www.tceg.texas.gov/field/damsafetyprog.htm</u>}

- 3. Any subsequent modification of this plan that includes development near Feature S-2 must include appropriate protection measures for the feature.
- 4. Activities observed during the site assessment investigations, conducted on October 4, 2011, are alleged to constitute construction without prior approval of a water pollution abatement plan as required by Commission rules (30 TAC Chapter 213, Sub-Chapter A). Therefore, the applicant is hereby advised that the after-the-fact approval of the development, as provided by this letter, shall not absolve the applicant of any prior violations of Commission rules related to this project, and shall not necessarily preclude the Commission from pursuing appropriate enforcement actions and administrative penalties associated with such violations, as provided in 30 TAC §213.10 of Commission rules.

Standard Conditions

- 1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
- 2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
- 3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

- 4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to

the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.

- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

- 10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. Two wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be

removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.

- 15. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- 21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

If you have any questions or require additional information, please contact Mr. Javier Anguiano of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 490-3096.

Sincerely,

2. Mar

Mark R. Vickery, P.G., Executive Director Texas Commission on Environmental Quality

MRV/JA/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

cc:

Mr. Stephen W. Hanz, P.E., HMT Engineering & Surveying Mr. Thomas H. Hornseth, P.E., Comal County Mr. Karl J. Dreher, Edwards Aquifer Authority TCEQ Central Records, Building F, MC 212



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 2, 2011

RECEIVED

AUG 1 1 201

Mr. Thomas H. Hornseth, P.E. Comal County Engineer 195 David Jonas Drive New Braunfels TX 78132-3710

COUNTY ENGINEER

Re: Edwards Aquifer, Comal County PROJECT NAME: Dry Comal Creek Vineyards, located at 1741 Herbelin Rd, New Braunfels, Texas

PLAN TYPE: Application for Approval of a Water Pollution Abatement Plan (WPAP) 30 Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program EAPP File No.: 3000.00

Dear Mr. Hornseth:

The referenced application is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Commission on Environmental Quality (TCEQ) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TCEQ approval.

Please forward your comments to this office by September 1, 2011.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact the San Antonio Region Office at (210) 490-3096.

Sincerely

Todd Jones Water Section Work Leader San Antonio Regional Office

TJ/eg

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

WATER POLLUTION ABATEMENT PLAN

FOR

Dry Comal Creek Vineyards Inc.

PREPARED FOR Texas Commission on Environmental Quality

Region 13 – San Antonio 14250 Judson Road San Antonio, Texas 78233 210-490-3096 (office) 210-545-4329 (fax)

RECEIVED

RECEIVED TOEQ"

PULJUL 22 PM LOD

1.03 1 1 2011

COUNTY ENGINEER



Stylen N. Homz, PE 07/18/11 F-10961

PREPARED BY



Stephen W. Hanz, P.E. 410 N. Seguin St New Braunfels, TX 78130

> Submitted July 2011

Water Pollution Abatement Plan Checklist

- X General Information Form (*TCEQ-0587*) ATTACHMENT A - Road Map ATTACHMENT B - USGS / Edwards Recharge Zone Map ATTACHMENT C - Project Description
- X Geologic Assessment Form (*TCEQ-0585*) ATTACHMENT A - Geologic Assessment Table (*TCEQ-0585-Table*) Comments to the Geologic Assessment Table ATTACHMENT B - Soil Profile and Narrative of Soil Units ATTACHMENT C - Stratigraphic Column ATTACHMENT D - Narrative of Site Specific Geology Site Geologic Map(s) Table or list for the position of features' latitude/longitude (if mapped using GPS)
- X Water Pollution Abatement Plan Application Form (*TCEQ-0584*) ATTACHMENT A - Factors Affecting Water Quality ATTACHMENT B - Volume and Character of Stormwater ATTACHMENT C - Suitability Letter from Authorized Agent (if OSSF is proposed) ATTACHMENT D - Exception to the Required Geologic Assessment (if requesting an exception) Site Plan
- X Temporary Stormwater Section (*TCEQ-0602*)

Temporary Stormwater Section (TOLG-0002)
ATTACHMENT A - Spill Response Actions
ATTACHMENT B - Potential Sources of Contamination
ATTACHMENT C - Sequence of Major Activities
ATTACHMENT D - Temporary Best Management Practices and Measures
ATTACHMENT E - Request to Temporarily Seal a Feature, if sealing a feature
ATTACHMENT F - Structural Practices
ATTACHMENT G - Drainage Area Map
ATTACHMENT H - Temporary Sediment Pond(s) Plans and Calculations
ATTACHMENT I - Inspection and Maintenance for BMPs
ATTACHMENT J - Schedule of Interim and Permanent Soil Stabilization Practices
Permanent Stormwater Section (TCEQ-0600)
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 for the site

ATTACHMENT B - BMPs for Upgradient Stormwater ATTACHMENT C - BMPs for On-site Stormwater ATTACHMENT D - BMPs for Surface Streams ATTACHMENT E - Request to Seal Features (if sealing a feature) ATTACHMENT F - Construction Plans ATTACHMENT F - Construction Plans ATTACHMENT G - Inspection, Maintenance, Repair and Retrofit Plan ATTACHMENT H - Pilot-Scale Field Testing Plan, if BMPs not based on *Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs* ATTACHMENT I -Measures for Minimizing Surface Stream Contamination

- <u>X</u> Agent Authorization Form (*TCEQ-0599*), if application submitted by agent
- X_ Application Fee Form (*TCEQ-0574*)
- X Check Payable to the "Texas Commission on Environmental Quality"
- X Core Data Form (*TCEQ-10400*)

Х

General Information Form

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

REGULATED ENTITY NAM	E:	Dry Comal Creek Vir	neyards Inc.
COUNTY: <u>Comal</u>		STREAM BASIN:	Upper Dry Comal Creek
EDWARDS AQUIFER:	<u>X</u> RECHAF		
PLAN TYPE:	_X_WPAP	AST	EXCEPTION
	SCS	UST	MODIFICATION

CUSTOMER INFORMATION

1. Customer (Applicant):

Contact Person:	Franklin Houser	
Entity:	Dry Comal Creek Vineyard	ds Inc.
Mailing Address:	1741 Herbelin Rd	
City, State:	New Braunfels, TX	Zip: 78132
Telephone:	(830) 456-2787	FAX: (830) 855-4124

Agent/Representative (If any):

Contact Person:	Stephen W. Hanz, P.E.	
Entity:	HMT Engineering & Survey	/ing
Mailing Address:	410 N. Seguin St	
City, State:	New Braunfels, TX	Zip: 78130
Telephone:	(830) 625-8555	FAX: (830) 625-8556

This project is inside the city limits of

This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of

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

Located approximately 1,500 feet to the east of the intersection of State Highway 46 and Herbelin Road; Along the south frontage of Herbelin Road

- 4. <u>X</u> ATTACHMENT A ROAD MAP. A road map showing directions to and the location of the project site is attached at the end of this form.
- 5. <u>X</u> ATTACHMENT B USGS / EDWARDS RECHARGE ZONE MAP. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached behind this sheet. The map(s) should clearly show:

- X_ Project site.
- X USGS Quadrangle Name(s).
- X Boundaries of the Recharge Zone (and Transition Zone, if applicable).
- X Drainage path from the project to the boundary of the Recharge Zone.
- 6. X 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. The TCEQ must be able to inspect the project site or the application will be returned.
- 7. <u>X</u> ATTACHMENT C PROJECT DESCRIPTION. Attached at the end of this form is a detailed narrative description of the proposed project.

8. Existing project site conditions are noted below:

- X Existing commercial site
- Existing industrial site
- X Existing residential site
- X Existing paved and/or unpaved roads
- Undeveloped (Cleared)
- X Undeveloped (Undisturbed/Uncleared)
 - ____ Other: _____

PROHIBITED ACTIVITIES

- 9. X 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);
 - 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).
- 10. X I am aware that the following activities are prohibited on the **Transition Zone** and are not proposed for this project:
 - (1) waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) land disposal of Class I wastes, as defined in 30 TAC §335.1; and
 - (3) new municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

ADMINISTRATIVE INFORMATION

- 11. The fee for the plan(s) is based on:
 - X For a Water Pollution Abatement Plan and Modifications, the total acreage of the site where regulated activities will occur.
 - For an Organized Sewage Collection System Plans and Modifications, the total linear

footage of all collection system lines.

- ____ For a UST Facility Plan or an AST Facility Plan, 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.
- 12. 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)
 - X San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
- 13. <u>X</u> 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.
- 14. <u>X</u> 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.

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:

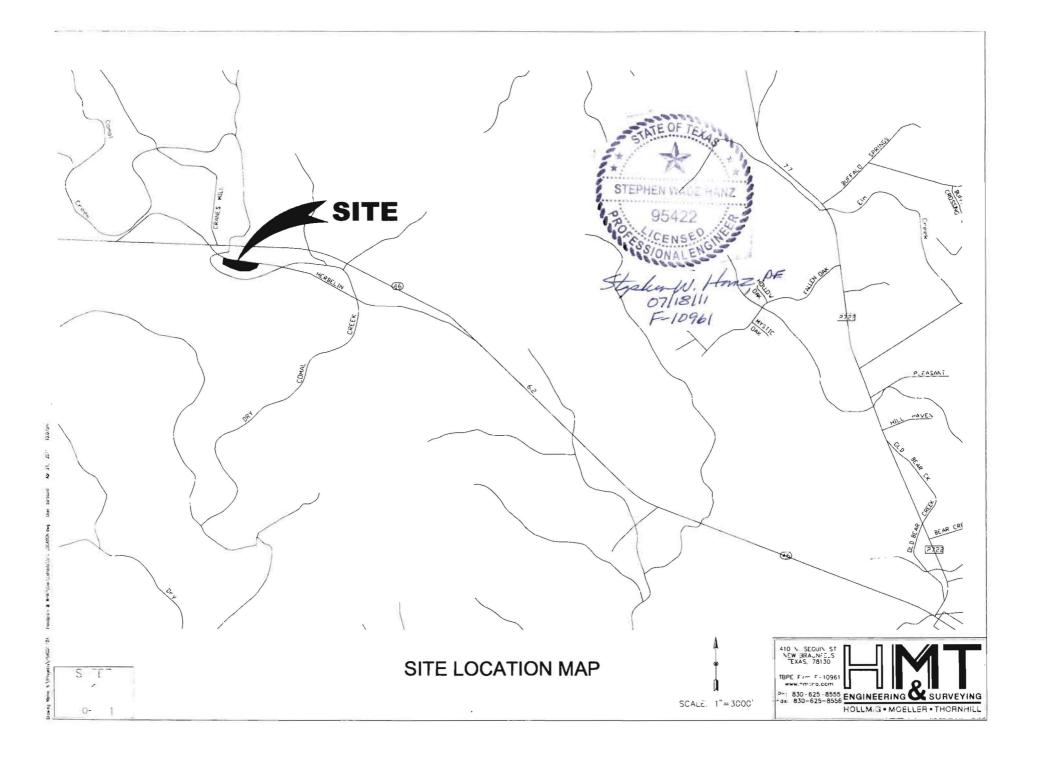
Stephen W. Hanz, P.E. Print Name of Customer/Agent

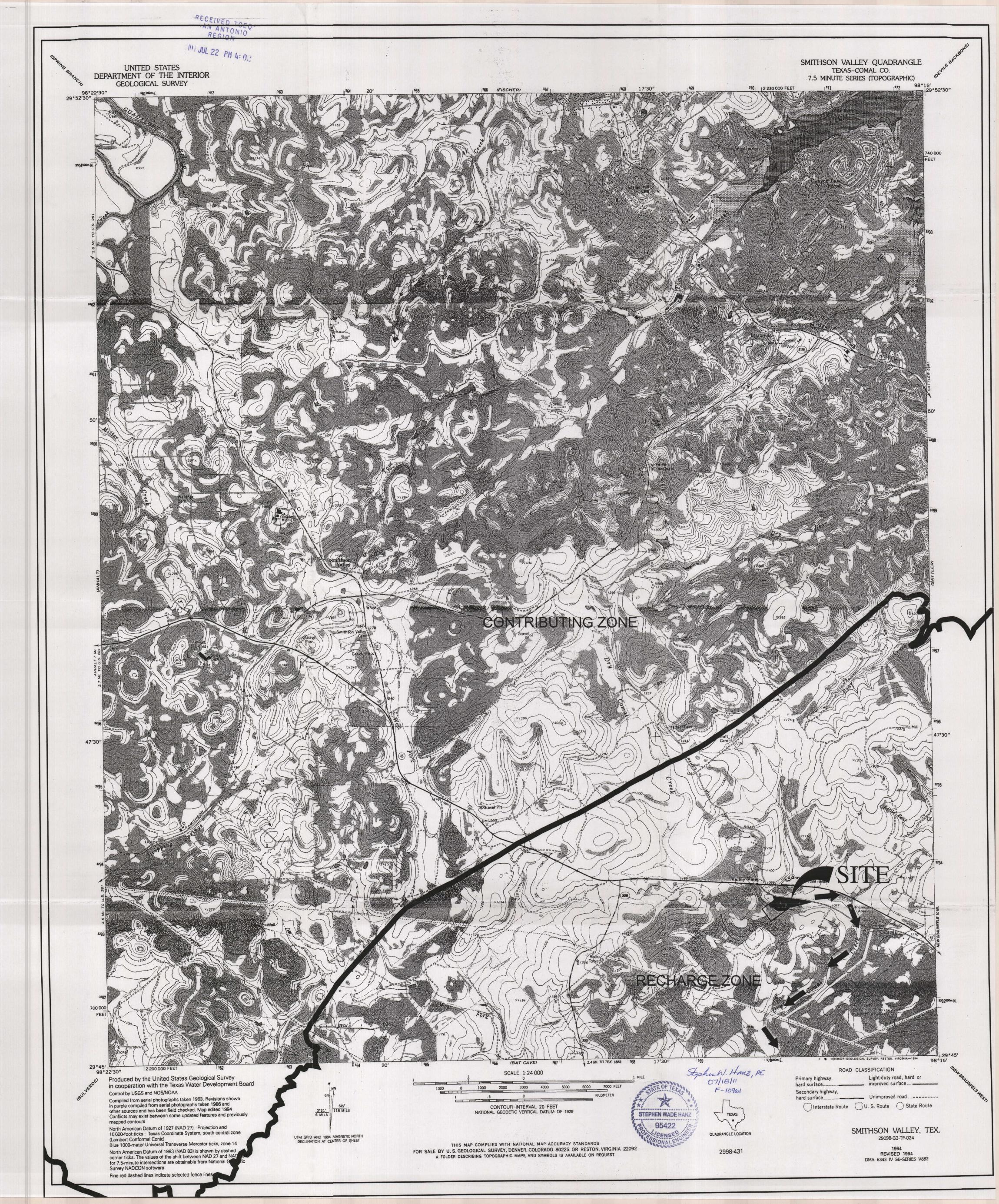
Stophen W. Homz PE

Signature of Customer/Agent

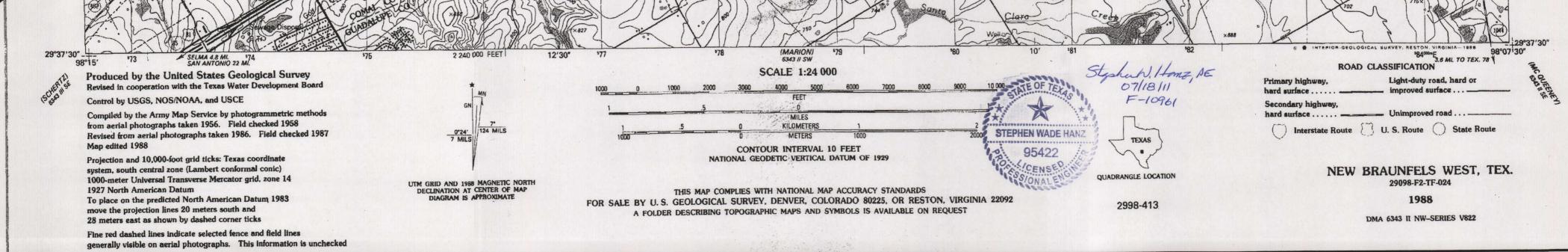
If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.











General Information

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

ATTACHMENT "C" Project Description

The site consists of an approximate 17.1 acre gross site area in Comal County and is not located within any city's limits or ETJ. The site makes up a portion of a larger 26.259 acre tract located at 1741 Herbelin Rd along SH46. The site does not currently have a WPAP. The 17.1 acre site is currently in use as a commercial winery with buildings, driveways, and miscellaneous impervious cover installed from 1950's to the present.

The site contains a residence structure, residence structure driveway, wine tasting building, and winery building installed prior to 1984. These items will be considered existing conditions as they were installed prior to the WPAP requirements of 1984.

The site also contains a bathroom on bottom & apartment on top building, storage & office space building, driveways, and miscellaneous impervious cover installed after 1984 to the present.

In addition, a proposed improvement is planned to be installed within the existing developed area of the site. The proposed improvement consists of the installation of an underground septic tank and aerobic spray irrigation system to serve the previously installed buildings. Currently, the buildings are tied to an existing On Site Sewage Facility (OSSF); however, the OSSF lies within the floodplain zone and is unpermitted. The owner will be required to build a new OSSF to meet standards of a properly permitted system. The new OSSF will be designed according to TCEQ regulations for On-Site Sewage Facilities over the Edwards Aquifer as specified in Title 30 of the Texas Administrative Code, Section 285, Subchapter E (30 TAC 285:E, Effective June 13, 2001). The goal of this WPAP is to properly permit the improvements that were previously installed without a WPAP from 1984 to the present, and the proposed OSSF improvements yet to be installed.

- Building 1 Storage & Office Space, built 2000's
- Building 2 Winery, built 1970's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Building 4 Wine Tasting Building, Built 1970's
- Building 5 Residence Structure & Driveway, Built 1950's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's
- Proposed OSSF planned to be installed 2011

The Upper Dry Comal Creek creates the southern boundary of the site, flowing west to east. The entire site drains to the Upper Dry Comal Creek. A portion of the developed site is within the limits of the 100-year flood plain of the Upper Dry Comal Creek according to the FEMA Flood Insurance Rate Map (FIRM) Panel 48091C0245F effective September 2, 2009. The owner is currently working with Comal County officials on impacts to the base flood elevation due to improvements installed within the floodplain. There will be no floodplain modifications associated with this proposed OSSF work. In

addition, the site does not have a Critical Water Quality Zone and there are no areas planned to be irrigated with wastewater.

The developed portion of the site contains no existing drainage inlets or subsurface pipe systems. A large pervious berm exists along the north banks of the Upper Dry Comal Creek, which protects the property from constant flooding from offsite stormwater runoff. The existing stormwater runoff generated onsite sheet flows towards the southeastern edge of the property before entering the Upper Dry Comal Creek. The Upper Dry Comal Creek is part of the Dry Comal Creek watershed, which eventually drains into the Comal River. The berm structure is a pervious structure.

Existing (Before 1984)

The site improvements installed before 1984 created less than 20% impervious cover to the 17.1 acre site. The improvements installed before 1984 created 2.50% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed before 1984 created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 5 Residence Structure & Driveway, Built 1950's
- Building 4 Wine Tasting Building, Built 1970's
- Building 2 Winery, built 1970's (Shown in Yellow on Impervious Cover Exhibit located in Section 3)

Present (After 1984)

The site improvements installed after 1984 to the present created less than 20% impervious cover to the 17.1 acre site. The improvements installed after 1984 to the present created 8.83% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed after 1984 to the present created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 1 Storage & Office Space, built 2000's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's (Shown in Purple & Blue on Impervious Cover Exhibit located in Section 3)

Proposed (2011)

The proposed improvements are minor in nature and will include the construction of a new septic tank and utility tie-in lines for the existing buildings on the property. An aerobic spray irrigation system will also be provided onsite. The project scope does not include the addition of any stormwater drainage infrastructure to the site. The project

General Information

includes the addition of less than 1/2% impervious cover to the gross area of the site and impact on drainage for the proposed conditions can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

 Proposed OSSF planned to be installed 2011 (Shown in Orange on Impervious Cover Exhibit located in Section 3)

This WPAP has been prepared for the site based on the regulated activity that has occurred and will occur over the Edwards Aquifer Recharge Zone in accordance with the Edwards Aquifer Protection Program Rules as specified in Title 30 of the Texas Administrative Code, Section 213 (30 TAC 213, effective June 1, 1999). Because the improvements installed after 1984 to the present created only 8.83% impervious cover and the proposed OSSF improvements will consist of minor construction and an addition of less than 1/2% impervious cover to the gross area of the site, the owner is requesting a waiver of the requirement for permanent BMPs. The OSSF project is to begin as soon as the proper permits are acquired and is planned to be completed within 2 months (after site plan approval).

GEOLOGIC ASSESSMENT

For: Water Pollution Abatement Plan

At: Dry Comal Creek Vineyards, Inc. 1741 Herbelin Road New Braunfels, Comal County, Texas



Prepared for:

HMT Engineering & Surveying 401 N. Seguin Avenue New Braunfels, Texas 78130

> June 2011 Arias Job No.: 2011-199

Geologic Assessment

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

REGULATED ENTITY NAME: Dry Comal Creek Vineyards, Inc

TYPE OF PROJECT: X_WPAP ____ AST ___ SCS ___ UST

LOCATION OF PROJECT: <u>X</u> Recharge Zone <u>Transition Zone</u> Contributing Zone within the Transition Zone

PROJECT INFORMATION

- 1. <u>X</u> Geologic or manmade features are described and evaluated using the attached **GEOLOGIC ASSESSMENT TABLE**.
- 2. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (*Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A*, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Soil Units, Inf Characteristics &	* Soil Group Definitions (Abbreviated)		
Soil Name	Group*	Thickness (feet)	A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
Tarpley clay (TaB), 1 to 3 percent slopes	D	0.5 – 1.5	B. Soils having a <u>moderate</u> <u>infiltration</u> rate when thoroughly wetted.
Comfort Rock-Outcrop (CrD) 1 to 8 percent slopes	D	0 to 0.2	C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.
			D. Soils having a <u>very slow</u> <u>infiltration</u> rate when thoroughly wetted.

- 3. <u>X</u> A **STRATIGRAPHIC COLUMN** is attached at the end of this form that shows formations, members, and thicknesses. The outcropping unit should be at the top of the stratigraphic column.
- 4. <u>X</u> A NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY is attached at the end of this form. The description must include a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure, and karst characteristics of the site.
- 5. <u>X</u> Appropriate **SITE GEOLOGIC MAP(S)** is attached:

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 Site Geologic Map Scale Site Soils Map Scale (if more than 1 soil type)

1" =	80'
1" =	80'
1" =	N/A (included with Geologic Map)

 Method of collecting positional data: Global Positioning System (GPS) technology.

- X Other method(s).
- 7. <u>X</u> The project site is shown and labeled on the Site Geologic Map.
- 8. X Surface geologic units are shown and labeled on the Site Geologic Map.
- 9. <u>X</u> 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.
- 10. X The Recharge Zone boundary is shown and labeled, if appropriate. The Recharge Zone boundary falls outside of the Site Geologic map extent and is therefore not shown.
- 11. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.):
 - X There are 2 (#) 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.
 - X 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

12. 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.

Date(s) Geologic Assessment was performed: April 11, 2011

Date(s)

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.

Michelle M. Lee, P.G. Print Name of Geologist	STATE OF TEL POUR	210.308.5884 Telephone
	MICHELLEM.LEE GEOLOGY (p. 21.)	210.308.5886 Fax
Signature of Geologist	6071 5 4 CENSED STATE	<u>June 21, 2011</u> Date
Representing: <u>Arias & Ass</u> (Name of C	sociates, Inc.	

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

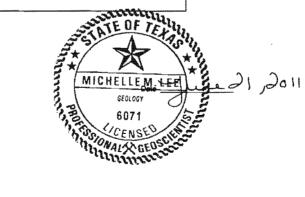
Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

ASSESS	MENT TAE	BLE		PR		AME: Dr	y Comal	Creek Vi	neyards, Ir	1C.										
LOCATION	4 - 1741 Her	belin Rd., N	, N FEATURE CHARACTERISTICS EVALUATION PHYSICAL SETTING										TTING							
1A	18 *	10*	2A	28	з		4		8	5A	8	7	8A	883	9		10	1	1	12
FEATURE ID	LATITUDE	LONOITUDE	FEATURE YYPE	POINTS	FORMATION		DIMENSIONS (FEET)	TREND (DEGREES)	8	DENSITY (NOAFY)	APERTURE (FEET)	INFILL	RELATIVE	TOTAL	SEM	KTIVETY	CATCHNENT	AREA (ACRES)	TOPOGRAPHY
						x	Y	z		10						<40	<u>≥49</u>	۵.0>	<u>≻1.5</u>	
S-1	29.77031	98.27515	SCZ	30	Kek	7	2	1.8	400		2/ft	0.3	F,0	8	38	X			Х	Cliff
S-2	29.77018	98.27502	С	30	Kek	5	3.5	1	4 ⁰				F,O	16	46		X		Х	Cliff
S-3	29.77007	98.27480	SC	20	Kek	3.2	1	1.7	2 ⁰				F,0	11	31	X			Х	Cliff
S-4	29.76984	98.27245	0	5	Kek	100	35	3.5	52 ⁰	10			N	16	31	X			X	Streambed
S-5	29.76984	98.27251	0	5	Kek	22	9	3.5	880				N	16	21	X			X	Streambed
S-6	29.77024	98.27484	CD	5	Kek	425	40	11	275 ⁰				F	10	15	X			Х	Streambed
S-7	29.77046	98.27417		30	Kek	0.6	0.6	~600	NA				NA	7	37	<u> </u>			X	Hillside
S-8	29.77081		MB - booster	30	Kek	0.6	0.6	?	NA				NA	7	37	X			X	Hillside
S-9	29.77006	98.27353	MB - well	30	Kek	0.6	0.6	~400	NA				NA	7	37	X			X	Hillside
								L				ļ			0	ļ				
						ļ	omnoonoo	ļ	ļļ.	000000000000000000000000000000000000000					0				ļ	
l								ļ	l		<u> </u>				0	<u> </u>				
						ļ					ļ				0	<u> </u>	ļ			
						<u> </u>			<u> </u>		ł				0	<u> </u>		8		
					+						+				0		ł	 		
									++			l		+	0			1	<u> </u>	
DATUM: NAD	83				Le verse		L	1	J			1		<u></u>	<u> </u>			<u></u>	1	-1
2A TYPE	<u></u>	TYPE		2B P	OINTS	1					8A INF	FLLING					1			
с	Cave				30		N	s, exposed be	drock		4.1.1.	**************************************								
sc	Solution cavity	,	20				с		n, sand, gravel				-							
SF	Solution-enlarg	ged fracture(s)			20		0	il, organics, k	saves, sticks, da	ink colors										
F	Fault				20		F	1 sediment, se	oli profile, gray o	r red colors										
0	Other natural t	oedrock features	•		5		v) details in na	mative descriptio	ri i										
MB	Manmade feat	ure in bedrock			30		FS , cements, cave deposits													
SW	Swallow hole				30		X Other materials									0001000L				
SH	Sinkhole				20															
CD	Non-karst clos				5					12 TOP	OGRAPHY									
Z	Zone, clustere	d or aligned fea	tures		30	Hilltop, Hillside	a, Drainage, F	loodplain, Stra	ambod	900100-manananan					1					
	I understood, and I have followed the Texas Commission on Environmental Quality's instructions to Geologists. The DF TE																			

My signature certifies thet I am qualified as a geologist as defined by 30 TAC Chapter 213.

Michello M. مد

-Table (Rev. 10-01-04)



SOIL NARRATIVE

DRY COMAL CREEK VINEYARDS, INC. <u>1741 HERBELIN ROAD</u> NEW BRAUNFELS, COMAL COUNTY, TEXAS

In accordance with the United States Department of Agriculture (USDA) Web Soil Survey, the natural surface soils over the project area are considered to be within the Tarpley clay (TaB) and Comfort-Rock outcrop complex (CrD) groups.

The Tarpley clay (TaB) soils typically have a 1 to 3 percent slope are located on the north side of the Dry Comal Creek. The vineyards at the Site are planted in the TaB soils. These soils are well drained and have a moderately low to moderately high capacity to transmit water. A typical profile of TaB soils is clay from the surface to about 17" where bedrock is encountered.

The Comfort-Rock outcrop complex (CrD) have slopes that range from 1 to 8 percent. At the Site, these soils are located along the southern perimeter where the Edwards Limestone outcrops. These soils are well drained and have a moderately low to moderately high capacity to transmit water. A typical profile of CrD soils is extremely stony clay to maybe six inches then bedrock.

STRATIGRAPHIC COLUMN

DRY COMAL CREEK VINEYARDS, INC. <u>1741 HERBELIN ROAD</u> NEW BRAUNFELS, COMAL COUNTY, TEXAS

			Group formation or member		Hydrologic Function	Thickness (feet)	Lithology	Cavern development	Porosity / permeability type									
Upper Cretaceous		pper fining	Buda Formation										Formation	CU	40-50	Buff, light gray, dense mudstone	Minor surface karst	Low porosity /low permeability
Cretad		nits		D	el Rio Clay	CU	40-50	Blue-green to yellow-brown clay	None	None / primary upper confining unit								
	1				eorgetown rmation	Karst AQ; not karst CU		Reddish-brown, gray to light tan marly limestone	None	Low porosity / low permeability								
	11			E	Cyclic & marine members undivided	AQ	89-90	Mudstone to packstone; miliolid grainstone; chert	Many sub- surfac e	Laterally extensive; water yielding								
	111	8 L		son	Leached & collapsed members	AQ	70-90	Crystalline limestone; mudstone to grainstone; chert collapsed breccia	Extensive lateral development; large rooms	Majority not fabric / one of the most permeable								
ceous	IV	Aquif	roup	рег	Regional dense members	CU	20-24	Dense, argillaceous mudstone	Very few; only vertical fracture enlargement	Not fabric / low permeability; vertical barrier								
Cretad	v	rds	ds G	_	Grainstone member	AQ	50-60	Miliolid grainstone; mudstone to wackestone; chert	Few	Not fabric / recrystallization reduces permeability								
Lower	VI	Edwa	Edwar	E E	Kirschberg evaporite member	AQ	50-60	Highly altered crystalline limestone; chalky mudstone; chert	Probably extensive cave development	Majority fabric / one of the most permeable								
	VII			161	Dolomitic member	AQ	110-130	Mudstone to grainstone; crystalline limestone; chert	Caves related to structure or bedding planes	Mostly not fabric; some bedding plane fabric / water-yielding								
	VIII			Kai	Basal nodular member	Karst AQ; not karst CU	50-60	Shaly, nodular limestone; mudstone and miliolid grainstone	Large lateral caves at surface	Fabric; stratigraphically controlled/ large conduit flow at surface; no permeability in subsurface								
	conf	wer ining nit	• • •		ember of the se Limestone	CU; evaporite beds AQ	350-500	Yellowish tan, thinly bedded limestone and marl	Some surface cave development	Some water production at evaporite beds / relatively impermeable								

Reference: U.S.G.S. Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone,

Bexar County, Texas; Water-Resources Investigations Report 95-4030

Note: CU = Confining Unit; AQ = Aquifer

Indicates Mapped Surface Formation

SITE SPECIFIC GEOLOGY NARRATIVE

DRY COMAL CREEK VINEYARDS, INC. <u>1741 HERBELIN ROAD</u> NEW BRAUNFELS, COMAL COUNTY, TEXAS

Introduction

A Geologic Assessment (GA) was performed for the above-referenced site on April 11, 2011 by Michelle M. Lee, P.G. #6071. The GA was performed in accordance with the Texas Commission on Environmental Quality (TCEQ) *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones, TCEQ-0585-Instructions (Rev. 10-01-04).* Nine potential recharge features (S-1 through S-9), as defined by TCEQ-0585, were observed on the surface of the Site at the time of this assessment.

Background

The project area is currently operating as a winery and vineyard. Within this project area, there are several buildings that house various functions to produce wine. The Dry Comal Creek is on Site and is bordered on the south by a tall vertical rock cliff.

Stratigraphy

According to the Bureau of Economic Geology of the Smithson Valley Topographic Quadrangle by E.W. Collins 1992, the surface geologic formation at the Site is mapped as the Cretaceous aged Edwards Group, Kainer Formation. This formation is generally up to 220 feet thick or more, and consist of limestone, chert, and marlstone, and forms the lower half of the Edwards Group.

Structure

Faults were not observed at the time of this assessment. Bureau of Economic Geology of the Smithson Valley Topographic Quadrangle by E.W. Collins 1992 does not show any mapped faults at the Site.

Karstic Characteristics

Karst features were observed on the Site at the time of this assessment. One Cave, **S-2**, (sensitive), one solution cavity, **S-3**, (not sensitive) and one solution cavity zone, **S-1**, (not sensitive) were observed at the Site during field reconnaissance. These features were observed high atop the vertical rock cliff in the southwestern portion of the Site. Although the cave is ranked sensitive, it is due to the high point value assigned to features of this type. There is a slight slope above the cave area such that it might capture some runoff during heavy storm events. The cave was infilled with fine-grained sediment and organic material. Probability of rapid infiltration to the subsurface is very low.

The other two karst features are located in an area that will receive little to no runoff due to their position high on the vertical rock cliff. Additionally, these features were infilled with fine grained sediment at the time of field reconnaissance. Probability of rapid infiltration to the subsurface is very low.

Potential for fluid movement to the aquifer is low over the project area, due to absence of karst and structural features. Additionally, the soil cover, where present, at the Site appears to impede flow of fluids to the subsurface.

Arias & Associates, Inc. June 21, 2011

Feature Discussion SENSITIVE FEATURE

S-2: Cave (C)

S-2 is a small cave located near the top of the ridge in the southwestern portion of the site. The feature meets the definition of a cave as set forth by the TCEQ Instructions to Geologists. The feature measures ~5.2 wide by ~3.5 ft tall and ~10 ft deep and is filled with fine-grained sediment and organics. The feature will not receive direct recharge given the location at the top of a steep rock cliff. If any recharge occurs it will be by runoff from areas up slope from the feature. Probability of rapid infiltration is low. However, since the feature ranks at 30 points and has a low probability of rapid infiltration rate of 16 points that automatically makes S-2 sensitive.

NOT SENSITIVE FEATURES

S-1: Solution Cavity Zone (SCZ)

S-1 is a band of solution cavities of varying sizes located near the top of the rock cliff in the southwestern portion of the Site. The zone measures ~ 70 ft long by 20 ft tall with the deepest SC measuring approximately 1.5 ft. Infilling was observed to be fine-grained sediment in addition to organic materials. The zone trends at 40° and has a low probability of rapid infiltration.

S-3: Solution Cavity (SC)

This solution cavity measured \sim 3.2 ft x \sim 1 ft x \sim 1.7 ft and is located near the top of the rock cliff along the southern perimeter of the Site. Based on the location and orientation of this feature, in addition to the fine-grained sediment observed as the infilling, the probability of rapid infiltration is low.

S-4: Other Feature in Bedrock (O)

Feature **S-4** is an Other Feature in Bedrock. The portion of Dry Comal Creek from the western perimeter to the eastern third of the creek has been manually cleared of all debris, vegetation and float material exposing solid bedrock. This feature is a closed depression measuring approximately 100 ft x 35 ft x 3.5 ft at its deepest point. The bedrock was observed to be flaggy and intact with very minor fracturing. The feature will have a tendency to hold water when present. Based on the cohesive nature of the exposed bedrock, probability of rapid infiltration is very low.

S-5: Other Feature in Bedrock (O)

Feature **S-5** is very similar to **S-4** but is separated in distance by about 75 ft. Probability of rapid infiltration rate is very low.

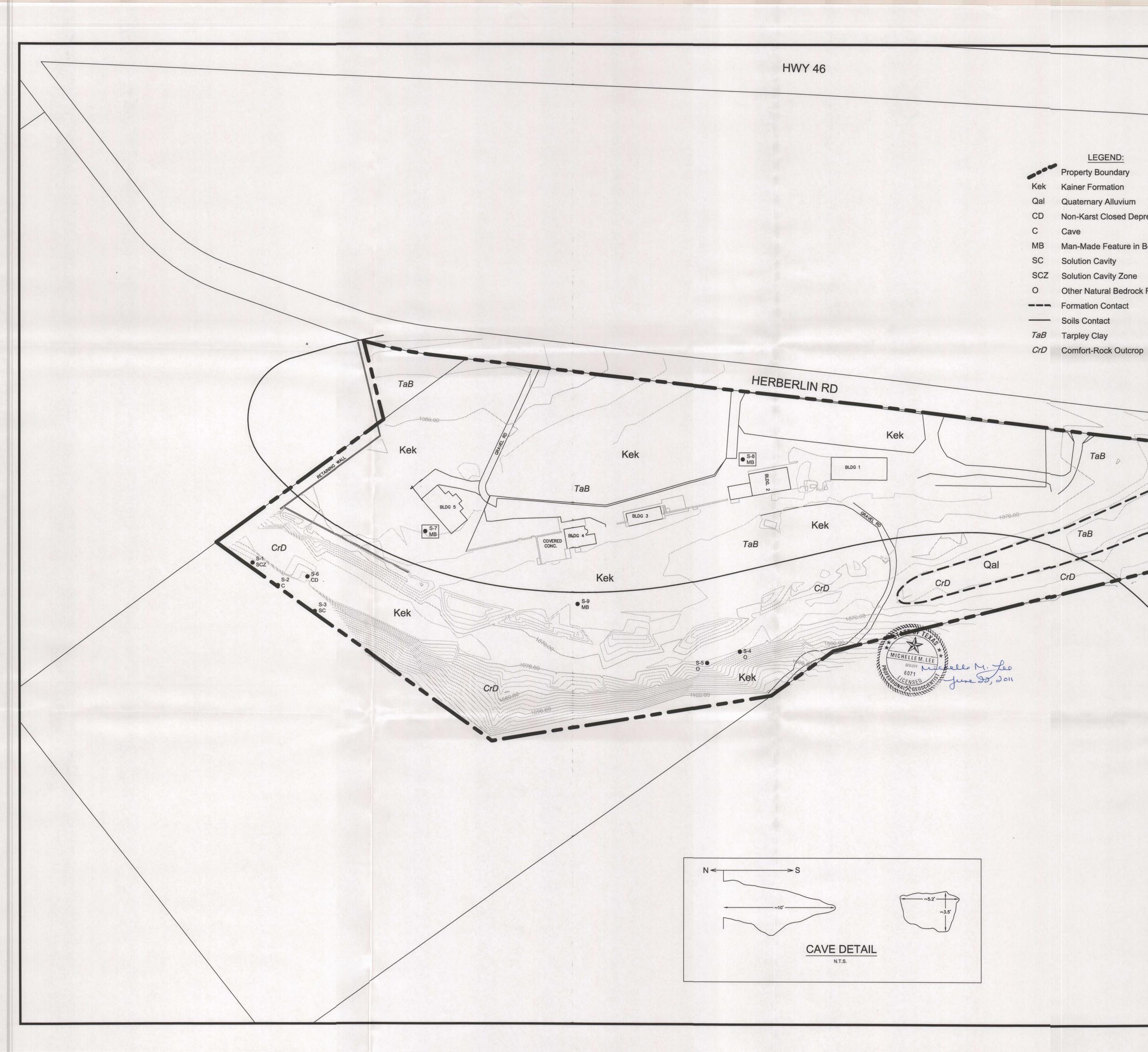
S-6: Closed Depression (CD)

Feature **S-6** is a closed depression located at the base of the rock cliff in the southwestern corner of the Site. This closed depression measures approximately 425 ft x 40 ft x 11 ft deep. It is a man-made pond created by the landowner that was observed to be holding water at the time of this assessment.

S-7, S-8 & S-9: Water Wells & Booster Pump Station

Well S-7 serves the on site residence and is located in an enclosed structure next to the house. S-9 is used in the production of the wine and is located near the center of the sitting area under the trees. The probability of rapid infiltration to the subsurface is very low. S-8 is a booster pump station located to the north of the production building and is also in an enclosed structure. This feature also has a very low probability of rapid infiltration into the subsurface.

Arias & Associates, Inc. June 21, 2011



LEGEND: CD Non-Karst Closed Depression MB Man-Made Feature in Bedrock O Other Natural Bedrock Feature 0' 40' 80' 160' SCALE: 1" = 80' TaB Qal Geologic & Soils Map Geologic Assessment Dry Comal Creek Vineyards New Braunfels, Comal County, Texas Arias Job No. 2011-199 June 22, 2011 4 ARIAS & ASSOCIATES, INC. Geotechnical · Environmental · Testing 1011 JUL 22 PM 4: 05 RECEIVED TCEO"

Water Pollution Abatement Plan Application

for Regulated Activities on the Edwards Aquifer Recharge Zone

and Relating to 30 TAC §213.5(b), Effective June 1, 1999

REGULATED ENTITY NAME: ____ Dry Comal Creek Vineyards Inc.

REGULATED ENTITY INFORMATION

4	The type of project ic:	
1.	The type of project is:	

- ____ Residential: # of Lots:
 - Residential: # of Living Unit Equivalents:
 - X Commercial
 - ____ Industrial
 - ____ Other: _____

2. Total site acreage (size of property): <u>17.102 ac</u>

3. Projected population:

<u>0 - 20 people</u>

4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres		
Structures/Rooftops	*26,077 ft ²	÷ 43,560 =	0.60 acres		
Parking	37,268 ft ²	÷ 43,560 =	0.86 acres		
Other paved surfaces	21,557 ft ²	÷ 43,560 =	0.49 acres		
Total Impervious Cover	1.95 acres				
Total Impervious Cover ÷ Total Acr	11.4%				

* Includes residential structure and residential structure driveway, wine tasting building, and winery building installed prior to 1984.

- 5. <u>X</u> ATTACHMENT A Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. <u>X</u> 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.): Width of R.O.W.: L x W = Ft ² ÷ 43,560 Ft ² /Acre =	feet. feet. acres.
10.	Length of pavement area: Width of pavement area: L x W = Ft ² ÷ 43,560 Ft ² /Acre = Pavement area acres ÷ R.O.W. area	feet. feet. acres. 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. <u>X</u> ATTACHMENT B - Volume and Character of Stormwater. A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on 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:

100% Domestic	60	gallons/day
% Industrial		gallons/day
% Comminaled		gallons/day

TOTAL <u>60</u> gallons/day

- 15. Wastewater will be disposed of by:
 - X On-Site Sewage Facility (OSSF/Septic Tank):
 - <u>X</u> ATTACHMENT C Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.
 - X 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.
 - <u>N/A</u> 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. X All private service laterals will be inspected as required in 30 TAC §213.5.

SITE PLAN REQUIREMENTS

Items 17 through 27 must be included on the Site Plan.

- 17. The Site Plan must have a minimum scale of 1" = 400'. Site Plan Scale: 1" = 80'.
- 18. 100-year floodplain boundaries
 - X Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
 - ____ No part of the project site is located within the 100-year floodplain.

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

FEMA FIRM Panel Number 48091C0245F (Effective September 2, 2009)

- 19. ____ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
 - X The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
- 20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
 - X There are 2 (#) 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.
 - X 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:
 - X 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. An exception to the Geologic Assessment requirement is requested and explained at the end of this form.

 22.
 X
 The drainage patterns and approximate slopes anticipated after major grading

 TCEQ-0584 (Rev. 10-01-10)
 Page 3 of 4

activities.

- 23. X Areas of soil disturbance and areas which will not be disturbed.
- _X_ 24. Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. Х Locations where soil stabilization practices are expected to occur.
- Х Surface waters (including wetlands). 26.
- 27. Locations where stormwater discharges to surface water or sensitive features. _X_ There will be no discharges to surface water or sensitive features.

ADMINISTRATIVE INFORMATION

- 28. Submit one (1) original and one (1) copy of the application, plus additional copies as _X_ 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.
- 29. Any modification of this WPAP will require Executive Director approval, prior to Χ_ construction, and may require submission of a revised application, with appropriate fees.

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 Aguifer. This WATER POLLUTION ABATEMENT PLAN APPLICATION FORM is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Stephen W. Hanz, P.E. Print Name of Customer/Agent

Signature of Customer/Agent Date

ATTACHMENT "A" Factors Affecting Water Quality

History of Improvements to the site:

- Improvements installed before 1984
- Improvements installed from 1984 to present
- Proposed improvements not yet installed

Improvements installed before 1984 - an existing residential structure and driveway, wine tasting building, and winery building were installed from the 1950's to 1984. The construction and existing conditions of these buildings result in no pollution from the site.

Improvements installed from 1984 to present – an existing storage and office space building, bathrooms on the bottom apartment on top building, roads and driveways, and miscellaneous impervious cover installed from 1984 to the present also resulted in minimal to no pollution from the site.

Proposed improvements not yet installed - The proposed improvements consist of repair or enhancement to the current underground septic tank to better serve the commercial-use buildings on the property. The existing septic system is unpermitted and requires certain improvements, including the installation of a new underground septic tank, in order to properly serve the site. The new septic system will be designed according to TCEQ regulations for On-Site Sewage Facilities over the Edwards Aquifer (Section 285: Subchapter E). The proposed construction will result in minimal to no pollution from the site. Some pollution may originate post-construction from the septic tank during overflow, cleaning, or waste removal, which may have an effect on surface water and water quality of the adjacent creek. However, proper design and construction of the On-Site Sewage Septic System will mitigate the potential risks.

ATTACHMENT "B"

Volume and Character of Stormwater

The development of this site starting before 1984 and including improvements that occurred from 1984 to the present resulted in minimal to no increase in stormwater runoff. The proposed improvements will also result in minimal to no increase in stormwater run-off.

- Building 1 Storage & Office Space, built 2000's
- Building 2 Winery, built 1970's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Building 4 Wine Tasting Building, Built 1970's
- Building 5 Residence Structure & Driveway, Built 1950's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's
- Proposed OSSF planned to be installed 2011

The proposed improvements include the replacement of a septic tank, which is installed underground.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
Proposed OSSF Improvements		500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	58,325	1.34	1990's
	Total Impervious Cover	84,902	1.95	

Total Site Total Impervious Cover	17.1 11.40%
Before 1984	2.50%
1984 to Present	8.83%
Proposed	0.07%
	11.40%

The construction of these improvements from 1984 to the present and including the proposed OSSF improvements scheduled for 2011 will add approximately 66,253 square feet (1.52 acres) of impervious cover to the 17.1 acre site. Currently, the site contains existing buildings, existing driveways and existing miscellaneous impervious covers which make up approximately 84,902 square feet (1.95 acres) of impervious cover. The addition of the proposed OSSF will add 500 square feet (0.01 acres). Therefore, the addition of the proposed impervious cover amounts to less than 20% of the gross site area and can be assumed negligible. The offsite areas that contribute to the site and affect onsite drainage were considered as undeveloped sparsely wooded land.

The hydrology calculations for existing and proposed conditions are broken out in the tables below. Table 1 shows existing conditions stormwater runoff for improvements installed before 1984.

Table 1 – Before 1984 Existing Conditions Hydrology Calculations							
Area ID	Area	"C" Value	Tc	I10	I100	Q10	Q100
01	2.37	0.38	20	5.44	8.51	4.90	7.66
O2	1.41	0.38	20	5.44	8.51	2.91	4.56
O3	2.86	0.38	20	5.44	8.51	5.91	9.25
. 1	1.33	0.41	20	5.44	8.51	2.97	4.64
O2 + I	2.74	0.39	20	5.44	8.51	5.81	9.09
2	11.69	0.40	20	5.44	8.51	25.44	39.79
O1 + O2 + O3							
+1+2	19.66	0.39	20	5.44	8.51	42.13	65.91

Table 2 shows existing conditions stormwater runoff for improvements installed from 1984 to present & including the proposed OSSF improvement.

Table 2 – After 1984 & Proposed Conditions Hydrology Calculations							
Area ID	Area	"C" Value	Tc	I10	I100	Q10	Q100
01	2.37	0.38	20	5.44	8.51	4.90	7.66
O2	1.41	0.38	20	5.44	8.51	2.91	4.56
O3	2.86	0.38	20	5.44	8.51	5.91	9.25
1	1.33	0.47	20	5.44	8.51	3.40	5.32
O2 + 1	2.74	0.42	20	5.44	8.51	6.26	9.79
2	11.69	0.44	20	5.44	8.51	27.98	43.77
OI + O2 + O3							
+1+2	19.66	0.42	20	5.44	8.51	45.11	70.56

The additional runoff added to the site from 1984 to the present and including the proposed OSSF improvements when compared to runoff conditions prior to 1984 is a minimal 2.98 cfs Q10 and 4.65 cfs Q100. These additional runoff flows are negligible compared to the entire 17.1 acre site.

Drainage Area 1 drains from the north to the south through the proposed project area. The remainder of the site has been calculated with Drainage Area 2, which flows across the site into the adjacent creek and its 100 yr floodplain. Both drainage areas are located entirely over the Edwards Aquifer Recharge Zone.

The flows directed from this site are in the form of sheet flow and the calculated values are considered as the total contribution to the adjacent creek. Total flow contribution to the creek from the site is not a point discharge. All existing drainage patterns were not altered by the proposed improvements.

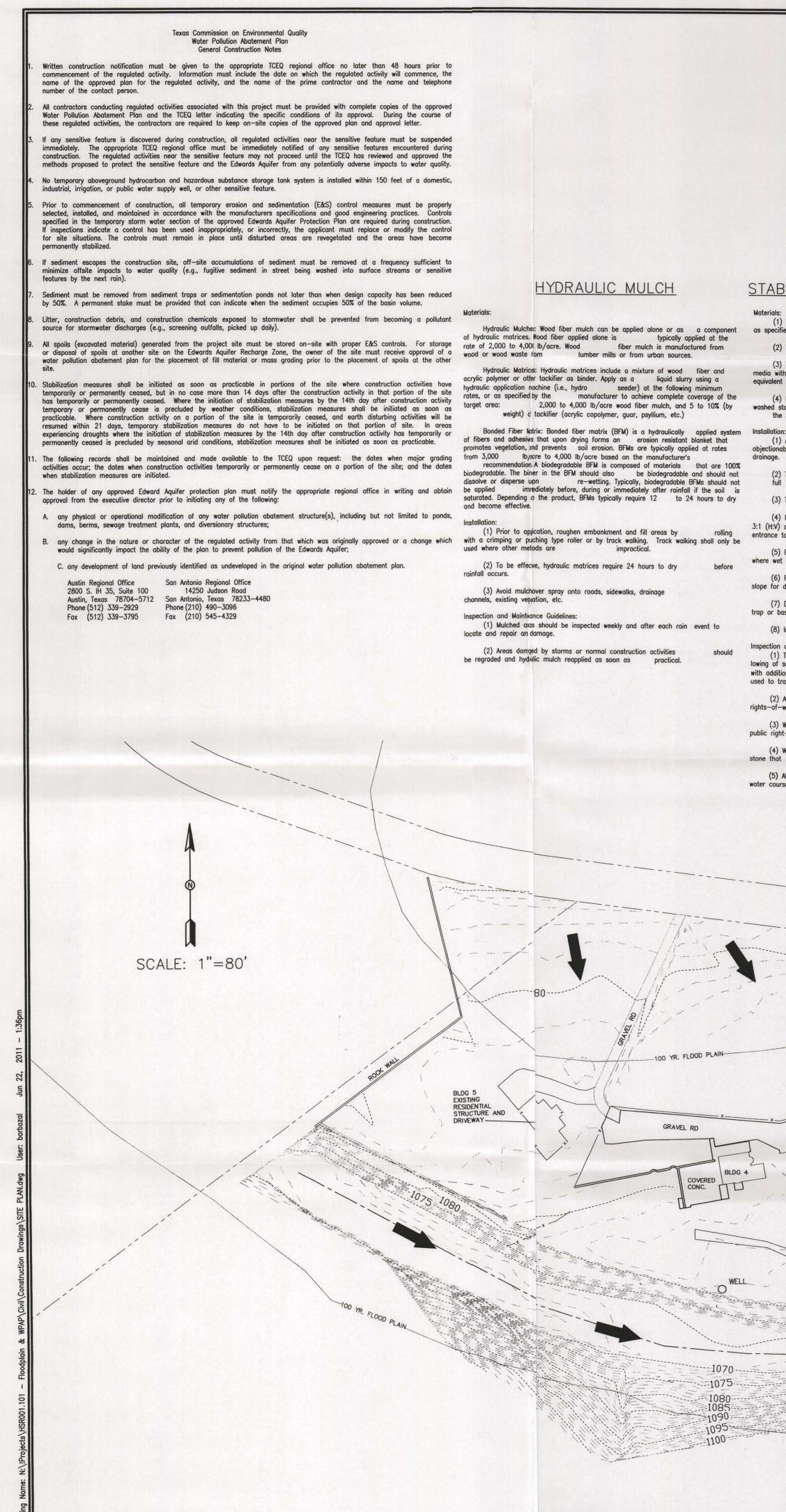
Water Pollution Abatement Plan Application

ATTACHMENT "C" Suitability Letter from Authorized Agent

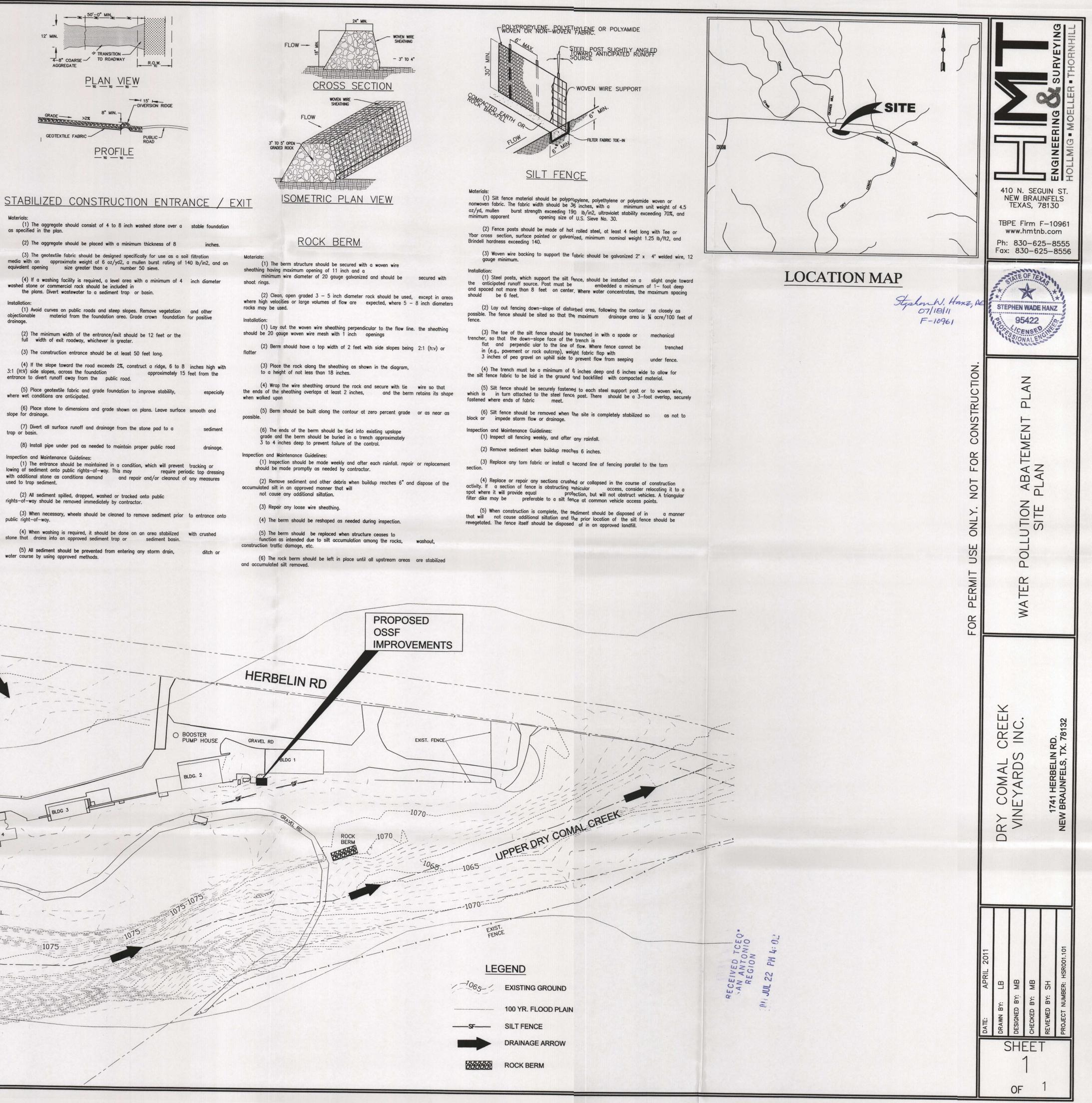
See Suitability Letter from Authorized Agent, attached.

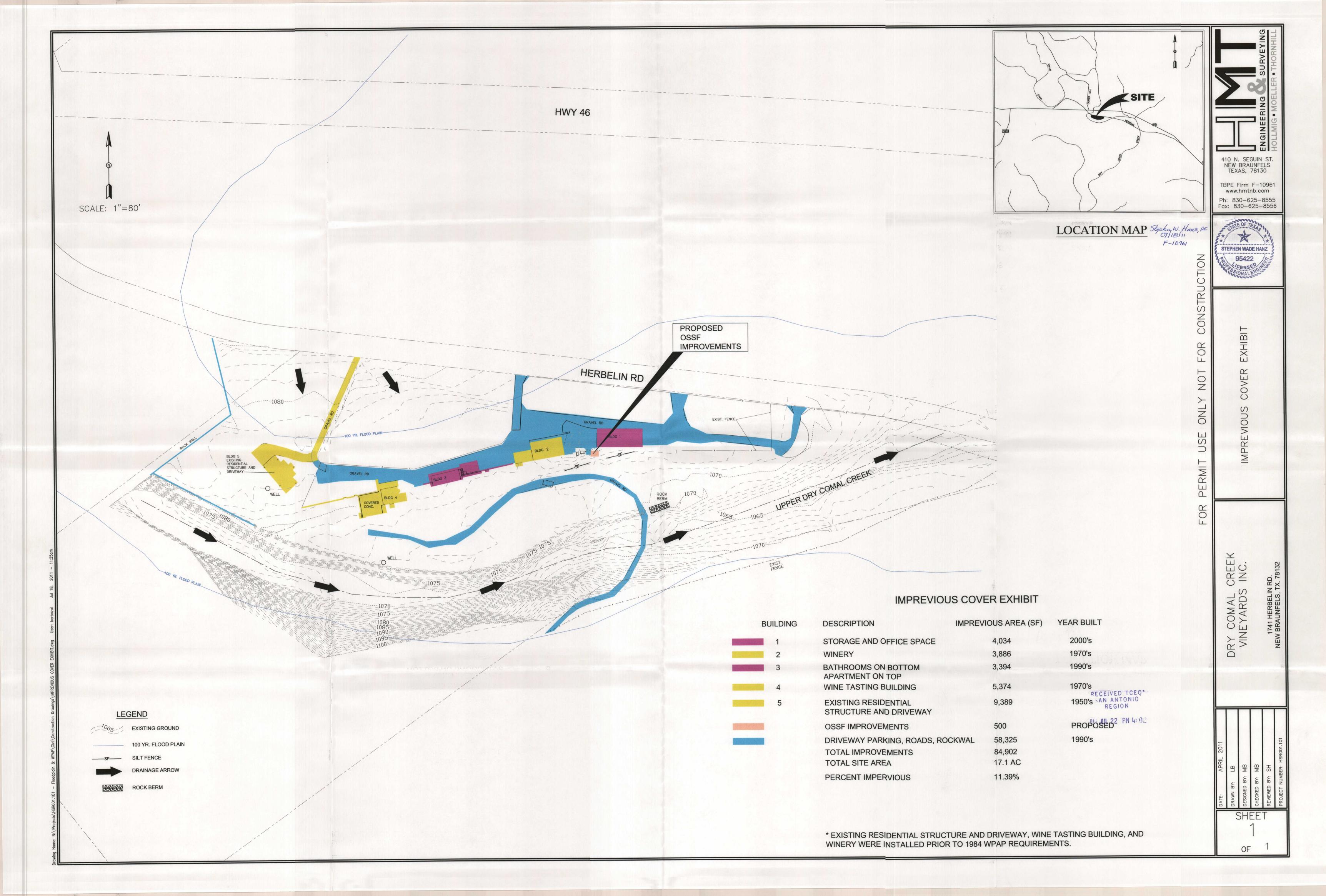
<u>ATTACHMENT "D"</u> Exception to the Required Geologic Assessment

No exception will be requested.



drainage. trap or basin.





ATTACHMENT "C"

Suitability Letter from Authorized Agent

Greg W. Johnson, P.E. 170 Hollow Oak New Braunfels, Texas 78132 830/905-2778

May 8, 2011

Comal County Office of Environmental Health 195 David Jonas Drive New Braunfels, Texas 78132-3760

RE: Soil Survey & OSSF compatibility for Franklin D. Houser
 1741 Herbelin Road
 Dry Comal Creek Vineyards
 Jose Maria Tejerino S-349, A-616 being 26.259 acres

TYPE SOILS AND DRAINAGE

This location was surveyed for soil types and their compatibility with development and installation of septic systems. Tested soils have a moderately high clay content and are a part of the Comfort-Rock outcrop complex, undulating (CrD) and Tarpley Clay sloping(1-8%). Soils are moderately well drained. The soil profile consists of a dark reddish brown to dark brown cherty clay with fine blocky structure to 8"-14" over coarsely fractured indurated limestone.

OSSF TYPES

Since the site has minimal depth soils with a moderately high clay content with poor soil absorption characteristics, a variety of septic systems are suitable depending on each lot. Recommended On Site Sewage Facilities (OSSF) for this site are aerobic treatment plants with spray or drip irrigation. Adequate space is available for any of the referenced OSSF's and their respective replacement areas.

The water service must be routed in such a way to provide a minimum of 10' separation from any part of each OSSF.

Respectfully yours,

Johnson, P.E FISES



OSSF Sizing

Water usage and field requirements:

Q = 200 GPD Q = 400 GPD Q= 600 GPD

Drip Irrigation

A = Q/Ra Ra = 0.1 g/sf (Type IV Soil) A = 200/0.1 = 2000 sf. A = 400/0.1 = 4000 sf. A = 600/0.1 = 6000 sf.

<u>Aerobic Treatment Plant</u> (Spray Irrigation) A = Q / Ri Ri = 0.064 g/sf A = 200/0.064 = 3125 sf. A = 400/0.064 = 6250 sf.A = 600/0.064 = 9375 sf. 1

ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: May 04, 2011

Site Location: Jose Maria Tejerino S-349, A-616, being 26.259 @ 1741 Herblin Road

Proposed Excavation Depth: N/A

Requirements:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring or dug pits must be shown on the site drawing.

For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the

proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

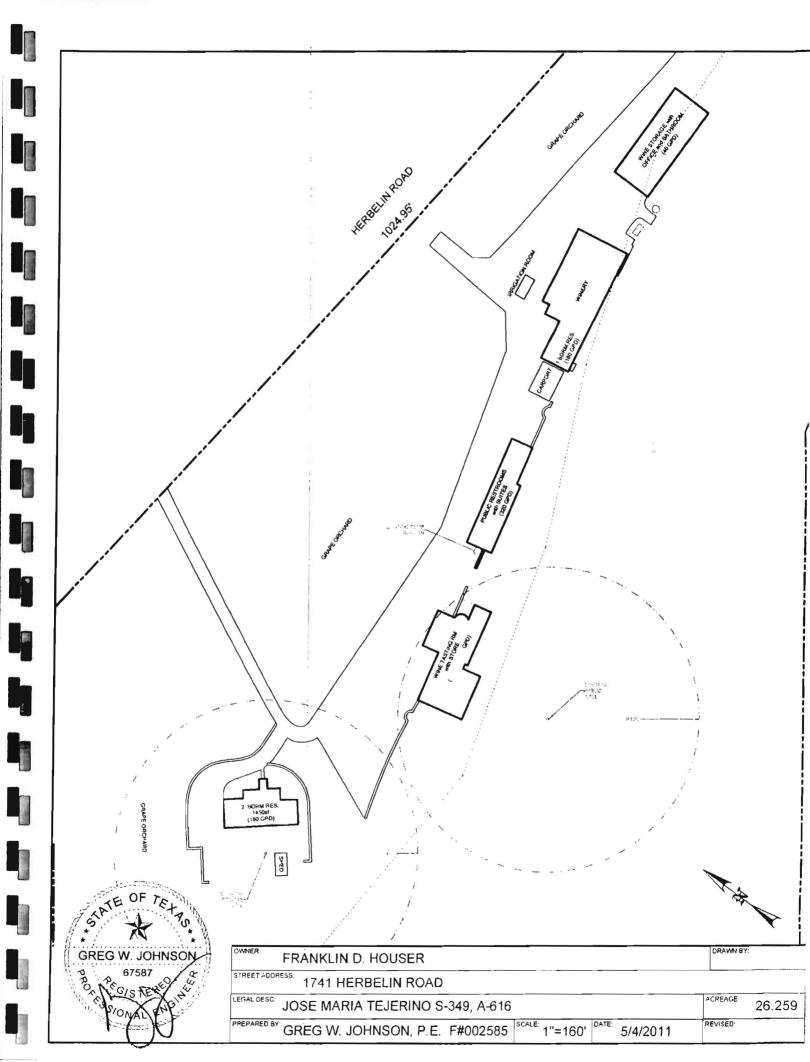
Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

SOIL BORING	NUMBER	1				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 0-14"	IV	CLAY	N/A	NO	L.S. @ 14''	BROWN
2		-				
3						
4						
5						

SOIL BORING	NUMBER	2				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME	AS	ABOVE			
1						
2						
3						
4						
5						

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

son, P.E. 67587-F2585, S.E. 11561 Gree





Comal County OFFICE OF COMAL COUNTY ENGINEER

May 31, 2011

Mr. Arnold Martinez, Jr., P.E. HMT Engineering & Surveying 410 N. Seguin Ave. New Braunfels, TX 78130

Re: Dry Comal Creek Vineyards On-Site Sewage Facility Suitability Letter, within Comal County, Texas

Dear Mr. Martinez:

In accordance with TAC $\S213.5(b)(4)(F)(ii)$, Comal County has found that the entire referenced site (except for areas listed below) is suitable for the use of private sewage facilities and will meet the special requirements for on-site sewage facilities located on the Edwards Aquifer recharge zone as specified in TAC $\S285.40-42$ based on the following information submitted to our office on May 31, 2011:

- The Geologic Assessment, prepared by Arias & Associates
- The Water Pollution Abatement Plan, prepared by HMT Engineering & Surveying

Areas that are not Suitable

Feature	Latitude	Longitude	Description
S-2	29.77018°	98.27502°	Cave

In accordance with TAC §285.91, Table X, sewer pipe with water tight joints, lined ET beds and tanks must maintain a 50' separation distance from the feature identified above. Soil absorption systems, unlined ET beds, surface application areas (edge of spray area), and drip irrigation must maintain a 150' separation distance from the feature identified above.

Moreover, according to TAC §285.41(b), Franklin Houser, the president of the referenced site, must inform, in writing, each prospective purchaser, lessee, or renter of the following:

- A Permit to Construct is required from Comal County before an OSSF can be constructed on the Dry Comal Creek Vineyard land;
- A License to Operate is required from Comal County before an OSSF can be operated on the Dry Comal Creek Vineyard land;
- That an application for a water pollution abatement plan, as defined in TAC §213, has been made, whether it has been approved, and if any restrictions or conditions have been placed on that approval; and
- Minimum separation distances, as outlined in Table 10 of TAC §285.91

Comal County

OFFICE OF COMAL COUNTY ENGINEER

Arnold Martinez, Jr., P.E. 5/31/11 Page 2

Furthermore, according to TAC §285.42(a), if any recharge feature, not listed above, is discovered during construction of an OSSF, all regulated activities near the feature shall be suspended immediately. The owner shall immediately notify the TCEQ San Antonio office of the discovery of the feature. All activities regulated under TAC §213 shall not proceed near the feature until Comal County, in conjunction with the TCEQ San Antonio office, has reviewed and approved a plan proposed to protect the feature, the structural integrity of the OSSF, and the water quality of the aquifer. The plan shall be sealed, signed, and dated by a professional engineer.

If you have any questions or need additional information, please do not hesitate to contact our office.

Sincerely,

Robert Boyd, P.E. Comal County Assistant Engineer

cc: Scott Haag, Comal County Commissioner, Precinct No. 2

Temporary Stormwater Section 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

REGULATED ENTITY NAME: ____ Dry Comal Creek Vineyards Inc.

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:
 - ____ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.
 - Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
 - Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An **Aboveground Storage Tank Facility Plan** application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
 - X Fuels and hazardous substances will not be stored on-site.
- 2. <u>X</u> ATTACHMENT A Spill Response Actions. A description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is provided at the end of this form.
- 3. <u>N/A</u> 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. <u>X</u> ATTACHMENT B Potential Sources of Contamination. Describe in an attachment at the end of this form any other activities or processes which may be a potential source of contamination.
 - ____ There are no other potential sources of contamination.

SEQUENCE OF CONSTRUCTION

- 5. <u>X</u> 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 provided at the end of this form. For each activity described, an estimate of the total area of the site to be disturbed by each activity is given.
- 6. <u>X</u> Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Upper Dry Comal Creek</u>

TEMPORARY BEST MANAGEMENT PRACTICES (TBMPs)

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

on the site plan.

- 7. X ATTACHMENT D Temporary Best Management Practices and Measures. A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
 - X 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 has been provided in the attachment at the end of this form
 - a. 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.
 - b. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - d. A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
- 8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
 - ATTACHMENT E Request to Temporarily Seal a Feature. A request to temporarily seal a feature is provided at the end of this form. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 X There will be no temporary sealing of naturally-occurring sensitive features on the site.
- 9. <u>X</u> ATTACHMENT F Structural Practices. Describe 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. Placement of structural practices in floodplains has been avoided.
- 10. X ATTACHMENT G Drainage Area Map. A drainage area map is provided at the end of this form to support the following requirements.
 - ____ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ____ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ____ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

- <u>X</u> There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.
- 11. <u>N/A</u> **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 has 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 provided as at the end of this form.
- 12. <u>X</u> ATTACHMENT I Inspection and Maintenance for BMPs. A plan for the inspection of temporary BMPs and measures and for their timely maintenance, repairs, and, if necessary, retrofit is provided at the end of this form. A description of documentation procedures and recordkeeping practices is included in the plan.
- 13. <u>X</u> 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. X 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. <u>N/A</u> 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. <u>X</u> 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. X 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 at the end of this form.
- 18. <u>X</u> 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. X 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 X approved operation and maintenance plan for the project.
- 21. If any geologic or manmade features, such as caves, faults, sinkholes, etc., are X 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. _X_ 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.

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 Aguifer. This TEMPORARY STORMWATER SECTION is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Stephen W. Hanz, P.E. Print Name of Customer/Agent

Stphink, Homz, PE Signature of Customer/Agent

07/18/11

Date

Temporary Stormwater Section

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

ATTACHMENT "A" Spill Response Actions

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.

Temporary Stormwater Section

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

(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:

Temporary Stormwater Section

(5) Contain the spread of the spill.

(6) Recover spilled materials.

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman immediately.

(3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.

(4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

(3) Notification should first be made by telephone and followed up with a written report.

(4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

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

Vehicle and Equipment Maintenance

(1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.

(2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately

(3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.

(4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.

(5) Place drip pans or absorbent materials under paving equipment when not in use.

(6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.

(7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.

(8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.

(9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

(1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.

(2) Discourage "topping off" of fuel tanks.

(3) Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

Temporary Stormwater Section

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

ATTACHMENT "B" Potential Sources of Contamination

The only potential sources of contamination are construction equipment leaks, re-fueling spills, as well as potential 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

The site was developed in three categories:

• Before 1984

- 1984 to Present
- Proposed OSSF

Stages of Construction for the proposed OSSF:

- 1. Site Prep-Work: This includes the set up of construction exhibit and work area. Approximate total disturbed area = 0.0115 acres
- 2. Existing Demolition/Removal: Removal of the existing septic tank and tie-in lines. Approximate total disturbed are = 0.0115 acres.
- 3. New Septic System Installation: Septic tank structure and utility lines will be installed at the location shown on the site plans, see Permanent Stormwater Section
- 4. Finish Site Work: Final landscaping of disturbed areas. Approximate total disturbed area = 0.0115 acres

ATTACHMENT "D" Temporary BMP's and Measures

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

- 1. Silt fence will be constructed on the down-gradient side of proposed site.
- 2. A rock berm will be installed on the east side of the property next to the existing berm, downstream of the construction site.

A. The existing driveway onsite limits the amount of impact from upstream runoff. Water is captured by existing swales onsite and directed around the existing buildings and the area for the proposed septic system installation.

B. Silt fence will be placed on the downgradient side of the proposed improvement to contain pollutants generated from onsite runoff. Soil disturbance will be limited to a minimal distance outside the proposed septic system. Disturbed areas will be seeded to replace destroyed vegetation. The existing vegetation located downgradient of each proposed improvement will work in conjunction with the silt fence to prevent pollution of water originating onsite and/or flowing offsite.

C. The proposed rock berm, located near the end of the existing berm will prevent pollutants from directly entering the Upper Dry Comal Creek. The creek is a direct source for recharge to the aquifer, and the rock berm will limit the impact of onsite runoff pollutants on the creek. According to the Geologic Assessment, all sensitive features within the identified boundary are located upstream of the project site and should not be impacted by this work.

D. There were no sensitive features identified in the Geologic Assessment that will be affected by the proposed construction.

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

There will be no request to temporarily seal a feature.

ATTACHMENT "F" Structural Practices

Rock berms and silt fence will be used to protect disturbed soils and to prevent contamination from leaving the project site.

ATTACHMENT "G" Drainage Area Map

See Drainage Area Map at the end of this section.

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

There will not be more than 10 acres of disturbed soil in one common drainage area that will occur at one time. Silt fence will be used for small drainage areas. No sediment ponds will be constructed due to the minimal amount of soil disturbance.

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

Inspection and Maintenance Plan

The contractor is required to inspect the control and fences at weekly intervals and after any rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance controls and fences shall immediately make any necessary repairs to damaged areas.

<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 Berms</u>: For installation in streambeds, additional daily inspections shall be made. Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation. Repair any loose wire sheathing. The berm shall be reshaped as needed during inspection. The berm shall be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc. The rock berm shall be left in place until all upstream areas are stabilized and accumulated silt removed.

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.

Documentation: All scheduled inspection and maintenance measures made to the temporary BMPs must be documented clearly on the WPAP Site Plan showing inspection/maintenance measures performed, date, and person responsible for inspection and maintenance. 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. Documentation shall clearly show changes made, date, and person responsible and reason change was made.

Owner's Information:

Owner:	Dry Comal Creek Vineyards Inc.
Contact:	Franklin Houser
Phone:	<u>(830) 456-2787</u>
Address:	<u>1741 Herbelin Rd.</u>
	New Braunfels, Texas 78132

Design Engineer:

Company:	HMT Engineering & Surveying
Contact:	Stephen W. Hanz, P.E.
Phone:	(830) 625-8555
Address:	410 N. Seguin Street
	New Braunfels, Texas 78130

Person or Firm Responsible for Erosion/Sedimentation Control Maintenance:

Company:	
Contact:	
Phone:	
Address:	

Signature of Responsible Party:

<u>This portion of the form shall be filled out and signed by the responsible party prior to construction.</u>

ATTACHMENT "J" Schedule of Interim and Permanent Soil Stabilization Practices

Areas which are disturbed by construction staging and storage areas will be hydro mulched with the appropriate seed mixture. Areas between the edge of pavement and property line will also be hydro mulched. There will be no fill slopes exceeding a 3:1 slope and all fill slopes will be hydro mulched. Installation and acceptable mixtures of hydro 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., hydro 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.)

Bonded Fiber Matrix: 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
		Wheats	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

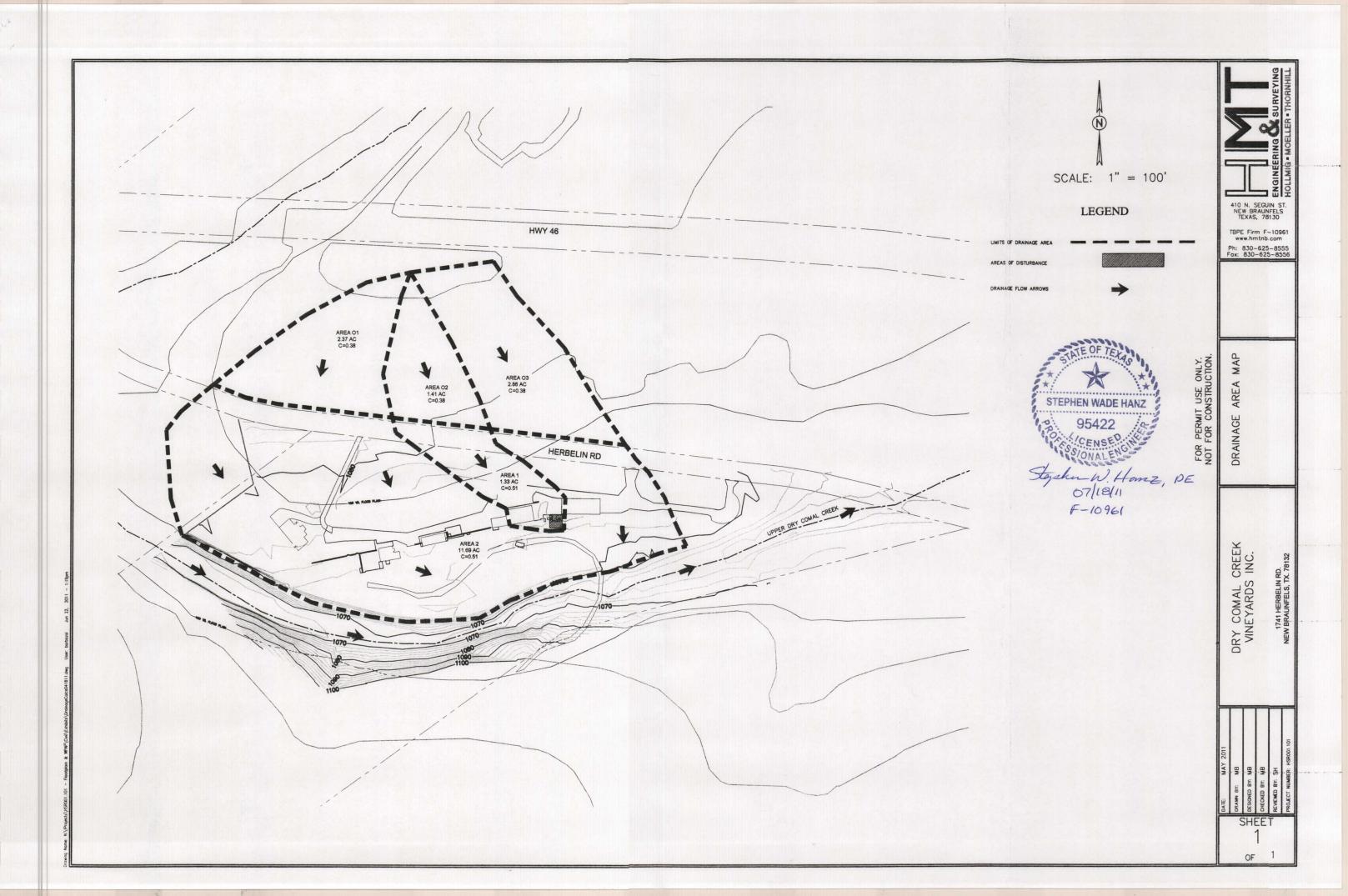
<u>Fertilizer:</u> Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet.

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.



Permanent Stormwater Section

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

REGULATED ENTITY NAME: Dry Comal Creek Vineyards Inc.

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

- 1. <u>N/A</u> Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
- 2. <u>N/A</u> These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - ____ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is provided below:
- 3. <u>N/A</u> 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.
- 4. <u>N/A</u> 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.
 - ____ This site will be used for low density single-family residential development and has 20% or less impervious cover.
 - ____ This site will be used for low density single-family residential development but has more than 20% impervious cover.
 - ____ This site will not be used for low density single-family residential development.
- 5. X 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.

- X ATTACHMENT A 20% or Less Impervious Cover Waiver. This 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 found at the end of this form.
- This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ____ This site will not be used for multi-family residential developments, schools, or small business sites.

6. **ATTACHMENT B - BMPs for Upgradient Stormwater.**

- A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is identified as **ATTACHMENT B** at the end of this form.
- If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT B** at the end of this form.
- X If 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, an explanation is provided as **ATTACHMENT B** at the end of this form.

7. ATTACHMENT C - BMPs for On-site Stormwater.

- A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is identified as **ATTACHMENT C** at the end of this form.
- X If 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, an explanation is provided as **ATTACHMENT C** at the end of this form.
- 8. <u>X</u> 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 provided at the end of this form. Each feature identified in the Geologic Assessment as "sensitive" has been addressed.
- 9. X The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
 - X The permanent sealing of or diversion of flow from a naturally-occurring "sensitive" or "possibly sensitive" feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring "sensitive" or "possibly sensitive" features on this site.
 - **ATTACHMENT E Request to Seal Features.** A request to seal a naturallyoccurring "sensitive" or "possibly sensitive" feature, that includes a justification as to why no reasonable and practicable alternative exists, is found at the end of this form. A request and justification has been provided for each feature.
- 10. <u>N/A</u> **ATTACHMENT F Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ

Construction Notes, all man-made or naturally occurring geologic features, all proposed structural measures, and appropriate details must be shown on the construction plans.

- N/A ATTACHMENT G Inspection, Maintenance, Repair and Retrofit Plan. A plan for the 11. inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.
- N/A The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs 12. and measures for this site.
 - N/A Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.
 - ATTACHMENT H Pilot-Scale Field Testing Plan. A plan for pilot-scale field testing is provided at the end of this form.
- 13. N/A ATTACHMENT I -Measures for Minimizing Surface Stream Contamination. Α 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 provided at the end of this form. 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.

Responsibility for maintenance of permanent BMPs and measures after construction is complete.

- 14. The applicant is responsible for maintaining the permanent BMPs after construction Х 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.
- 15. Х 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.

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 Aguifer. This PERMANENT STORMWATER SECTION is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Stephen W. Hanz, P.E. Print Name of Customer/Agent

Styphin W. Hame, PE 07/18/11 Signature of Customer/Agent Date

TCEQ-0600 (Rev. 10/01/04)

ATTACHMENT "A" 20% of Less Impervious Cover Waiver

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.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	58,325	1.34	1990's
	Total Impervious Cover	84,902	1.95	

Total Site	17.1
Total Impervious Cover	11.40%
Before 1984	2.50%
1984 to Present	8.83%
Proposed	0.07%
	11.40%

* Dry Comal Creek Vineyards Inc. is requesting a waiver of the requirement for permanent BMPs to be used at this site.

ATTACHMENT "B" BMP's for Upgradient Stormwater

Up gradient stormwater currently sheet flows over land through the site from a high point located to the northwest of the site on the property across Herbelin Rd. The flow is over natural soil conditions and has no obstructions preventing its natural path. Currently, the existing site that includes buildings, driveways, and miscellaneous concrete is not impacted by the sheet flow upgradient. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "C" BMP's for On-Site Stormwater

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since site improvements from 1984 to the present including the proposed OSSF improvements increased impervious cover from 2.50% to 8.83%, 4.65 CFS Q100 of additional stormwater runoff, and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "D" BMP's for Surface Streams

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

The natural vegetation located downgradient of proposed improvements will provide additional filtration to help prevent pollution from entering streams, sensitive features and the aquifer. According to the Geologic Assessment, all sensitive features within the identified boundary are located upstream of the project site and should not be impacted by this work.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999 Franklin Houser Print Name President Title - Owner/President/Other Dry Comal Creek Vinyards, Inc._____, of Corporation/Partnership/Entity Name have authorized Stephen W. Hanz, P.E. Print Name of Agent/Engineer of Hollmig Moeller Thornhill, Inc (HMT Engineering & Surveying) Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

Applicant's Signature

THE STATE OF TEXAS & County of Conal Ş

BEFORE ME, the undersigned authority, on this day personally appeared Franklin Hugrknown 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 20^{+1} day of Apy, 1, 201.



P

Amanda M. Hard NOTARY PUBLIC Amanda M. Gold Typed or Printed Name of Notary

MY COMMISSION EXPIRES: September 15,2013

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Application Fee Form

NAME OF PROPOSED REGULATED I	ENTITY:	Dry Comal	Creek Vineya	rds, Inc.	
REGULATED ENTITY LOCATION:	1741 Herbeli	n Rd			
NAME OF CUSTOMER: Frankli	n Houser				
CONTACT PERSON: Stephen W. Ha	anz, PE	PI	HONE:	(830) 625-8555	5
(Please Print)					
Customer Reference Number (if	issued): CN _			(nine digits)	
Regulated Entity Reference Number (if	issued): RN			(nine digits)	
Austin Regional Office (3373)	🗌 Hays	Travis	🗌 Williams	on	
San Antonio Regional Office (3362)	🗌 Bexar	🛛 Comal	🗌 Medina	🗌 Kinney	Uvalde

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to (Check One):

Austin Regional Office

Mailed to TCEQ:

TCEQ – Cashier Revenues Section Mail Code 214 P.O. Box 13088 Austin, TX 78711-3088 San Antonio Regional Office
 Overnight Delivery to TCEQ: TCEQ - Cashier 12100 Park 35 Circle Building A, 3rd Floor

Austin, TX 78753

512/239-0347

Site Location (Check All That Apply): X Recharge Zone

Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	17.1 Acres	\$ 6,500
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

schur W. Homz, PE

Signature

1/18/11

Date

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

TCEQ-0574 (Rev. 4/25/08)

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Application Fee Schedule 30 TAC Chapter 213 (effective 05/01/2008)

Contributing Zone Plans and Modifications						
PROJECT	PROJECT AREA IN ACRES	FEE				
One Single Family Residential Dwelling	< 5	\$650				
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	\$1,500 \$3,000 \$4,000 \$6,500 \$8,000 \$10,000				
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	\$3,000 \$4,000 \$5,000 \$6,500 \$8,000 \$10,000				

Water Pollution Abatement Plans and Modifications Contributing Zone Plans and Modifications

Organized Sewage Collection Systems and Modifications

PROJECT	COST PER LINEAR FOOT	MINIMUM FEE MAXIMUM FEE	
Sewage Collection Systems	\$0.50	\$650 - \$6,500	

Underground and Aboveground Storage Tank System Facility Plans and Modifications

PROJECT	COST PER TANK OR PIPING SYSTEM	MINIMUM FEE MAXIMUM FEE
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

PROJECT	FEE
Exception Request	\$500

Extension of Time Requests

PROJECT	FEE		
Extension of Time Request	\$150		

Morgan [®] Stanley	FRANKLIN HOUSER BONNIE HOUSER 251 BLUE BONNET BLVD. SAN ANTONIO, TX 78209-4630	Date 9 Mcer / 25-80/440	
Pay to the Order of	EQ resend friegh	enche cend n 7/00=	
Morgan Stanley DW Inc. PMorgan Chain Berk, N.A. Columbus, Ohio 43271	Experise Analyzer	On Alore -	
For	18901083143417"	1214	

. .

ſ

.

ن د



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided) Image: New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)					
Renewal (Core Data Form should be submitted with the renewal form) Other					
2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)					
3. Customer Reference Number (<i>if issued</i>) Follow this link to search 4. Regulated Entity Reference Number (<i>if issued</i>)					
for CN or RN numbers in Central Registry** RN					
SECTION II: Customer Information					
5. Effective Date for Customer Information Updates (mm/dd/yyyy)					
6. Customer Role (Proposed or Actual) – as it relates to the <u>Regulated Entity</u> listed on this form. Please check only <u>one</u> of the following:					
Image: Constructional Licensee Image: Operator Image: Owner & Operator Image: Constructional Licensee Image: Construction of the constru					
7. General Customer Information					
New Customer Update to Customer Information					
Change in Legal Name (Verifiable with the Texas Secretary of State)					
**If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.	Ĺ				
8. Type of Customer: Corporation					
City Government County Government					
Other Government General Partnership Limited Partnership Other:					
9. Customer Legal Name (If an individual, print last name first: ex: Doe, John) <u>If new Customer, enter previous Customer</u> <u>End Date:</u>					
DRY COMAL CREEK VINEYARDS, INC.					
1741 HERBELIN RD					
10. Mailing					
Address:					
City NEW BRAUNFELS State TX ZIP 78132 ZIP + 4 1838					
11. Country Mailing Information (if outside USA) 12. E-Mail Address (if applicable)					
13. Telephone Number14. Extension or Code15. Fax Number (if applicable)					
(830) - 456-2787 (830) - 885-7001					
16. Federal Tax ID (9 digits) 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number (if applicable) 19. TX SOS Filing Number (if applicable)	e)				
742880580 17428805802 N/A 149210900					
20. Number of Employees 21. Independently Owned and Operated?					
0-20 21-100 101-250 251-500 501 and higher Yes No					
SECTION III: Regulated Entity Information					
22. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application	n)				
New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information No Change** (See below)					
"If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.					
23. Regulated Entity Name (name of the site where the regulated action is taking place)					

24. Street Address	1741	HERBELIN RD.						11	~~~~		
of the Regulated Entity:											
(No P.O. Boxes)	City	NEW BRAUFEL	S	State	ТХ	ZIP	781	32		ZIP + 4	1838
	1741	HERBELIN RD.									
25. Mailing Address:											
	City	NEW BRAUNFE	LS	State	тх	ZIP	781	32		ZIP + 4	1838
26. E-Mail Address:	N/A										;
27. Telephone Numb	er		28.	Extensio	n or Code	29	. Fax N	umber (if a	pplicable)		
(830) - 885-	4076					(8	30)	-885	5-4124		
30. Primary SIC Code	e (4 digits)	31. Secondary SIC	Code	e (4 digits)	32. Primary I (5 or 6 digits)	VAICS	Code		Second r 6 digits)	lary NAIC:	S Code
5182		0721			3	12130					
34. What is the Prima	ry Busin	ess of this entity?	Please	e do not rep	eat the SIC or N	AICS de	escriptio	n.)			
				W	NERY						
Q	uestions	<u>s 34 – 37 address geo</u>	graph	ic locatio	n. Please refe	r to th	e instri	uctions for	applica	bility.	
35. Description to	APPF	ROX. 1500 FT T		IE EAS	T OF THE	INTE	RSE	CTION	OF ST	ATE H	IGHWAY 46
Physical Location:	AND	HERBELIN RD.	ALC	ONG TH	HE SOUHT	FRC	ONTA	GE OF	HERB	ELIN R	D.
36. Nearest City		*****	Cou	unty			State			Nearest	ZIP Code
NEW BRAUNFELS				COMAL			TX			78132	
37. Latitude (N) In Decimal: 29.7712			38. Longitude		ude (N	e (W) In Decimal: 98.3		98.27	728		
Degrees	Minutes	Secon	ds		Degrees	Degrees N		Minutes		Sec	onds
29°		46'	16	6"	98°			16' 22"			22"
39. TCEQ Programs an	Id ID Nur	nbers Check all Programs	and writ	te in the perr	nits/registration nur	nbers th	at will be	affected by th	ie updates	submitted or	this form or the

updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

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

SECTION IV: Preparer Information

40. Name:	STEPHEN V	V HANZ, P.E.		41. Title:	PROFESSIONAL ENGINEER
42. Telephon	ie Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(830) 62	5 8555		(830)625- 8556	STEPHENH@HMTNB.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 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	DRY COMAL CREEK VINEYARDS, INC. Job Title: PRESID	ENT	
Name(In Print) :	FRANKLIN HOUSER	Phone:	(830)456.4377
Signature:	Autolash	Date:	8-1-11

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

FRANKLIN HOUSER

Print Name

PRESIDENT

Title - Owner/President/Other

of DRY COMAL CREEK VINEYARDS, INC.

Corporation/Partnership/Entity Name

have authorized STEPHEN W. HANZ, P.E.

Print Name of Agent/Engineer

of HOLLMIG MOELLER THORNHILL, INC DBA HMT ENGINEERING & SURVEYING

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.

W der Applicant's Signature

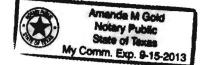
-1-11

THE STATE OF TEXAS & County of Canal Ş

SIGNATURE PAGE:

BEFORE ME, the undersigned authority, on this day personally appeared <u>Franklin Huter</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 1 day of August , 2011.



Amanda M. Hare NOTARY PUBLIC Amarda M. Gold

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 9-15-2013





TCEQ Core Data Form

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

SECTION	I:	General	Inform	ation
3000 COLORED C			THINK AND	Distanting and the second s

1. Reason for Submission (If other is checked please describe in space provided) New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)
Renewal (Core Data Form should be submitted with the renewal form)
2. Attachments Describe Any Attachments: (ex. Tille V Application, Waste Transporter Application, etc.)
XYes INO WPAP
3. Customer Reference Number (if issued) Follow this link to search 4. Regulated Entity Reference Number (if issued)
CN for CN or RN numbers in Central Registry** RN
SECTION II: Customer Information
5. Effective Date for Customer Information Updates (mm/dd/yyyy)
6. Customer Role (Proposed or Actual) – as it relates to the <u>Regulated Entity</u> listed on this form. Please check only one of the following:
Owner Operator Owner & Operator
Occupational Licensee Responsible Party Voluntary Cleanup Applicant Other:
7. General Customer Information
Vew Customer Update to Customer Information Change in Regulated Entity Ownership
Change in Legal Name (Verifiable with the Texas Secretary of State)
**If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.
8. Type of Customer: Corporation Individual Sole Proprietorship- D.B.A
City Government County Government Federal Government State Government
Other Government General Partnership Limited Partnership Other: WINERY
9. Customer Legal Name (If an individual, print last name first: ex: Doe, John) <u>If new Customer, enter previous Customer</u> <u>below</u> <u>End Date:</u>
DRY COMPL CREEK VINEYARDS INC.
1741 HERBELIN RD
10. Mailing
Address:
City NEW BRAUNFELS State TX ZIP 78130 ZIP+4 1838
11. Country Mailing Information (if outside USA) 12. E-Mail Address (if applicable)
Franklin@dr. [comalcreck.com
13. Telephone Number 14. Extension or Code 15. Fax Number (if applicable) (830)456 2787 (830)885 7001
16. Federal Tax ID (9 digits) 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number(if applicable) 19. TX SOS Filing Number (if applicable)
142880580 17428805802 NA 149210900
20. Number of Employees 21. Independently Owned and Operated?
0-20 □ 21-100 □ 101-250 □ 251-500 □ 501 and higher
SECTION III: Regulated Entity Information
22. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application
XNew Regulated Entity 🔲 Update to Regulated Entity Name 🔲 Update to Regulated Entity Information 🗌 No Change** (See below
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.
23. Regulated Entity Name (name of the site where the regulated action is taking place)

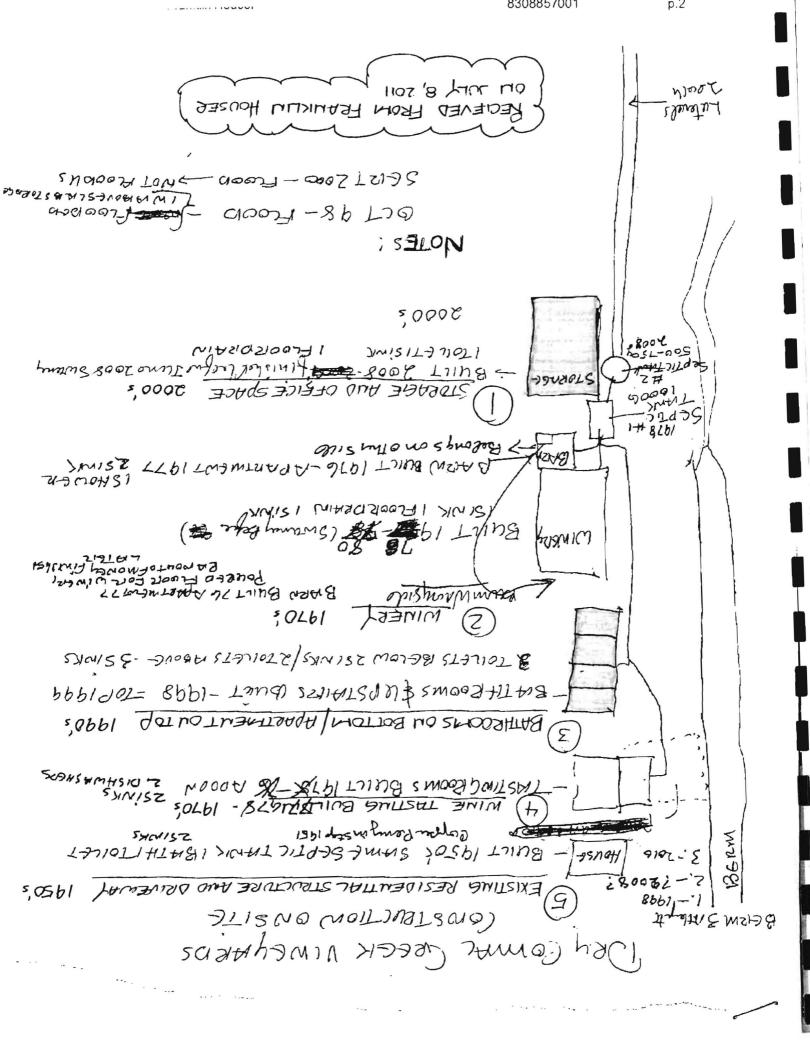
24. Street Address	17	41 HE	PREI	IN RD)				
of the Regulated			NDVI	NIN NU					
Entity:							1		
(No P.Q. Boxes)	City	NEW BR	RAUNF	ELS State	TX	ZIP	78132	ZIP + 4	1838
25. Mailing	ירן	41 HE	RBEL	IN RD					
Address:	City	NEW BI	ZAUNF	ELS State	ХT	ZIP	78132	ZIP + 4	1838
26. E-Mail Address:									
27. Telephone Numbe	r		<i></i>	28. Extensio	n or Code	29.	Fax Number (if applica	able)	
(830) 885-40-	16					(8	30)885-4124		
30. Primary SIC Code	(4 digits)	31. Secon	dary SIC (Code (4 digits)	32. Primary (5 or 6 digits)	NAICS	Code 33. Sec (5 or 6 dig	ondary NAICS	S Code
5182		0	121		31213	30			
34. What is the Primar	y Busine	ess of this en	i tity? (P	lease do not rep	eat the SIC or N	AICS de	scription.)		
WINER	٧								
	V V	34 - 37 addr	ess geog	raphic location	n. Please refe	r to the	instructions for app	licability.	
35. Description to	LOCAT	TED APP	ROXIM	ATELY ISO	or the oc	THE	EAST OF TH	E INTERS	ECTION OF
Physical Location:	STATE	HIGHWAY	46	HERBELL	N RD. ALC	NG-	THE SOUTH FROM	THEE OF	HERBEUN RI
36. Nearest City			1.	County			State	Nearest	
NEW BRA	UNFE	LS		COMAL	,		TX	7813	2
	UNFE		712	COMAL	38. Longit	ude (W			
37. Latitude (N) In De Degrees		29.7	71Z Seconds		38. Longit	_	Minutes	98.272 Seco	8 nds
37. Latitude (N) In De	cimal:				38. Longit	_) In Decimal:	98.272 Seco	8
37. Latitude (N) In De Degrees	ncimal: Minutes 4 C 1 ID Num	29.7 bers Check all I	Seconds	d write in the perm	38. Longit	nbers tha) In Decimal: Minutes t G'	98.272 Seco	8 nds 22"
37. Latitude (N) In De Degrees 29° 39. TCEQ Programs and	Minutes Minutes 4 C 1 ID Num bur Program	29.7 bers Check all I	Seconds	d write in the perm	38. Longit Degrees (% its/registration nur e Core Data Form	nbers tha) In Decimal: Minutes t G'	98.272 Seco ates submitted on	8 nds 22"
37. Latitude (N) In De Degrees 29° 39. TCEQ Programs and updates may not be made. If yo	Minutes Minutes 4 C 1 ID Num bur Program	29.7 bers Check all I n is not listed, che	Seconds	d write in the perm d write it in. See the	38. Longit Degrees (% its/registration nur e Core Data Form	nbers tha	Minutes	98.272 Seco ates submitted on	8 nds 22" this form or the
37. Latitude (N) In De Degrees 29° 39. TCEQ Programs and updates may not be made. If yo	Ainutes Minutes 4 C 1 ID Num Dur Program	29.7 bers Check all I n is not listed, che	Seconds	d write in the perm d write it in. See the Edwards A	38. Longit Degrees (% its/registration nur e Core Data Form	nbers tha	h Decimal: Minutes t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast	98.272 Seco ates submitted on	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety	Ainutes Minutes 4 C 1 ID Num Dur Program	bers Check all I n is not listed, che Districts	Seconds	d write in the perm d write it in. See the Edwards A	38. Longit Degrees C(S its/registration nur e Core Data Form Aquifer	nbers tha instructio	h Decimal: Minutes t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast	98.272 Seco ates submitted on te Munici	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety	Air	bers Check all I n is not listed, che Districts	Seconds	d write in the perm d write it in. See the Edwards A	38. Longit Degrees C(S its/registration nur e Core Data Form Aquifer	nbers tha instructio	h Decimal: Minutes t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast	98.272 Seco ates submitted on te Munici	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety New Source Review – Stormwater	Air	bers Check all I n is not listed, che Districts OSSF Title V – Air	Seconds	d write in the perm d write it in. See the Edwards A	38. Longit Degrees (8° its/registration nur a Core Data Form Aquifer Storage Tank	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast WS	98.272 Seco ates submitted on te Munici	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety New Source Review –	Air	bers Check all I n is not listed, che Districts OSSF	Seconds	d write in the perm d write it in. See the Edwards A	38. Longit Degrees C(S its/registration nur e Core Data Form Aquifer	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast	98.272 Seco ates submitted on te Munici	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety New Source Review – Stormwater	Air	bers Check all I n is not listed, che Districts OSSF Title V – Air	Seconds	d write in the perm d write it in. See the Edwards A	38. Longit Degrees (8° its/registration nur a Core Data Form Aquifer Storage Tank	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast WS	98.272 Seco ates submitted on te Munici	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety New Source Review – Stormwater	Air	bers Check ail I n is not listed, che Districts OSSF Title V – Air Waste Water	Seconds 16 Programs an eck other and	d write in the perm d write it in. See the Edwards A	38. Longit Degrees (8° its/registration nur a Core Data Form Aquifer Storage Tank	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast WS	98.272 Seco ates submitted on te Munici	8 nds 2 Z " this form or the pal Solid Waste
37. Latitude (N) In De Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety New Source Review - Stormwater	Air	bers Check ail I n is not listed, che Districts OSSF Title V – Air Waste Water	Seconds 16 Programs an eck other and	d write in the perm d write it in. See the Edwards A Petroleum	38. Longit	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast WS	98.272 Seco ates submitted on Image: Straight on the stra	8 2 Z '' this form or the pal Solid Waste
37. Latitude (N) In De Degrees 29° 39. TCEQ Programs and updates may not be made. If yo Dam Safety New Source Review - Stormwater	Air	29.7 bers Check ail n is not listed, che Districts OSSF Title V – Air Waste Water er Inform	Seconds IG Programs an eck other and ation JZ, P.	d write in the perm d write it in. See the Edwards A Petroleum	38. Longit Degrees (%) its/registration nur e Core Data Form Aquifer Storage Tank iter Agriculture 41.	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. idustrial Hazardous Was WS Ised Oil /ater Rights	98.272 Seco ates submitted on Image: Straight on the stra	8 2 Z '' this form or the pal Solid Waste
37. Latitude (N) In Degrees Degrees 29° 39. TCEQ Programs and updates may not be made. If your programs and updates and updat	Air	bers Check ail I n is not listed, che Districts OSSF Title V – Air Waste Water r Inform	Seconds Programs an eck other and ation 16 Programs an Programs an Program an Prog	d write in the perm d write it in. See the Edwards A Petroleum Tires Wastewa	38. Longit Degrees (%) its/registration nur a Core Data Form Aquifer Storage Tank iter Agriculture	nbers tha instructio	In Decimal: Minutes I G' t will be affected by the upd ns for additional guidance. dustrial Hazardous Wast WS Ised Oil /ater Rights PROFESS ION	98.272 Seco ates submitted on te Munici Sludge Utilitie Other:	8 2 Z '' this form or the pal Solid Waste

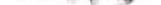
46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

ļ

(See the Core Data Form instruction	is for more information on w	ho should sign this form	n.)	0
Company: 10ry (or	1 d Creekadur	Job Title:	reside	int
Name(In Print): FIZAWK	LIN HOUSER		Phone:	(830) 456-4377
Signature:	Lil Korg/		Date:	ZaA0/1
	0			







October 8, 2011

NOV 2 1 2011 COUNTY ENGINEER

RECEIVED

2011 OCT 10

G

0

O

Javier Anguiano Texas Commission on Environmental Quality, EAPP, Region 13 - San Antonio 14250 Judson Road San Antonio, Texas 78233

0 RE: Edwards Aquifer, Comal County J NAME OF PROJECT: Dry Comal Creek Vineyards; located at 1741 Herbelin Rd., New 29 Braunfels, Texas OM TYPE OF PLAN: Request for the approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer; Edwards Aquifer Protection Program San Antonio File No. 3000.00; Investigation No. 948278; Regulated Entity No. RN106201189

Mr. Anguiano,

This letter is in response to comments letter dated September 23, 2011 for the above referenced project.

1. Please contact the investigator to schedule a site assessment.

An onsite site assessment was scheduled and done with Mr. Javier Anguiano at 9:00AM, Tuesday, October 03, 2011.

2. The project description states that the "site" (as shown on the site plan) is 17.1 acres that is part of a larger acre tract. According to Comal County [website] records, the site is comprised of a 0.418 acre tract and an 18.024 acre tract. Additionally, the boundaries for the 18.024 acre tract proceed past the Dry Comal Creek. Please explain and confirm that the site boundaries are based on a legal land description i.e. metes & bounds.

The two properties that represent the WPAP are 0.418 acres & 18.024 acres, for a total area of 18.44 acres. All references to the two property areas have been changed and all impervious area calculations have been corrected. The corrected sheets are included with this letter to be inserted into the WPAP application.

3. According to Comal County [website] records, Mr. Franklin Houser is shown to be the owner of the site, not Dry Comal Creek Vineyards, Inc. Please confirm who the actual owner of the site is and provide appropriate documentation. If it is not Dry Comal Creek Vineyards, Inc., then revise all pertinent forms and attachments that require the owner/customer name and information.

The two properties that represent the WPAP are 0.418 acres & 18.024 acres for a total area of 18.44 acres as shown on the Comal County CAD website. The owner of both properties is Franklin D. Houser. All references to the owner of the two properties have been corrected and the corrected sheets are included with this letter to be inserted into the WPAP application.

TCEQ-0584 Concerns:

4. Item 14 state that there would be approximately 60 gal/day of domestic wastewater to be expected from the site. The gal/day shown on the site exhibit included Attachment C totals to more than 60. Please explain and revise as necessary.

Item 14 has been revised to match the same 540 gal/day domestic wastewater as shown on Attachment C.

5. Is there any wastewater resulting from the wine making process, and if so, how is it disposed of?

The wine making process starts with grape juice produced from pressing grapes, or by using grape juice purchased already pressed by offsite others. The grape juice is then pumped to the fermentation tank. From the fermentation process, the grape juice is turned to wine. The quality wine is pumped from the fermentation tank to storage tanks. The remaining fluid in the fermentation tank is captured and transferred to additional stargaze tanks for the use of making other types of wines (port), or used to assist with refinement of other wine making processes. There is a zero liquid waste stream from this process. All liquids are utilized in the process. In conclusion, no liquids are ever wasted or discharged as part of a waste stream. All liquids are captured and utilized in the wine making process.

6. Update Site Plans & Geological Assessment to match the 18.44 acres.

The Site Plan and Geological Assessment have been updated to include the 18.44 acre site.

Thank you for your help and assistance with this matter. If you have any further questions or comments, please call Stephen at (830) 625-8555.

Stephen W. Hanz, PE 10/10/2011 Principal F-10961 STEPHEN WADE HANZ

General Information Form

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

 REGULATED ENTITY NAME:
 DRY COMAL CREEK VINEYARDS

 COUNTY:
 Comal

 STREAM BASIN:
 Upper Dry Comal Creek

 EDWARDS AQUIFER:
 Image: Comparison of the co

CUSTOMER INFORMATION

1. Customer (Applicant):

Contact Person:	Franklin D. Houser		
Entity:	DRY COMAL CREEK VINEYARDS		
Mailing Address:	1741 Herbelin Rd.		
City, State:	New Braunfels, TX	Zip: ⁷⁸¹³²	
Telephone:	(830) 456-2787	FAX: (830) 855-4124	
Mailing Address: City, State:	1741 Herbelin Rd. New Braunfels, TX		

Agent/Representative (If any):

Contact Person:	Stephen W. Hanz, PE	
Entity:	HMT Engineering & Surveying	
Mailing Address:	410 N. Seguin Ave.	
City, State:	New Braunfels, TX	Zip: ⁷⁸¹³⁰
Telephone:	(830) 625-8555	FAX: (830) 625-8556

2.



This project is not located within any city's limits or ETJ.

- The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.
- 4. L

5.

ATTACHMENT A - ROAD MAP. A road map showing directions to and the location of the project site is attached at the end of this form.

ATTACHMENT B - USGS / EDWARDS RECHARGE ZONE MAP. A copy of the official 7 ¹/₂ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is

ATTACHMENT "C" Project Description

The site consists of two properties. The first property consists of 0.418 acres and the second consists of 18.024 acres. The combined area represented by this WPAP is 18.44 acres. The site is located in Comal County and is not within any city's limits or ETJ. The site is addressed at 1741 Herbelin Rd along SH 46. The site does not currently have a WPAP. The 18.44 acre site is currently in use as a commercial winery with buildings, driveways, and miscellaneous impervious cover installed from 1950's to the present.

The site contains a residence structure, residence structure driveway, wine tasting building, and winery building installed prior to 1984. These items will be considered existing conditions as they were installed prior to the WPAP requirements of 1984.

The site also contains a bathroom on bottom & apartment on top building, storage & office space building, driveways, and miscellaneous impervious cover installed after 1984 to the present.

In addition, a proposed improvement is planned to be installed within the existing developed area of the site. The proposed improvement consists of the installation of an underground septic tank and aerobic spray irrigation system to serve the previously installed buildings. Currently, the buildings are tied to an existing On Site Sewage Facility (OSSF); however, the OSSF lies within the floodplain zone and is unpermitted. The owner will be required to build a new OSSF to meet standards of a properly permitted system. The new OSSF will be designed according to TCEQ regulations for On-Site Sewage Facilities over the Edwards Aquifer as specified in Title 30 of the Texas Administrative Code, Section 285, Subchapter E (30 TAC 285:E, Effective June 13, 2001). The goal of this WPAP is to properly permit the improvements that were previously installed without a WPAP from 1984 to the present, and the proposed OSSF improvements yet to be installed.

- Building 1 Storage & Office Space, built 2000's
- Building 2 Winery, built 1970's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Building 4 Wine Tasting Building, Built 1970's
- Building 5 Residence Structure & Driveway, Built 1950's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's
- Proposed OSSF planned to be installed 2011

The Upper Dry Comal Creek creates the southern boundary of the site, flowing west to east. The entire site drains to the Upper Dry Comal Creek. A portion of the developed site is within the limits of the 100-year flood plain of the Upper Dry Comal Creek according to the FEMA Flood Insurance Rate Map (FIRM) Panel 48091C0245F effective September 2, 2009. The owner is currently working with Comal County officials on impacts to the base flood elevation due to improvements installed within the floodplain.

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

There will be no floodplain modifications associated with this proposed OSSF work. In addition, the site does not have a Critical Water Quality Zone and there are no areas planned to be irrigated with wastewater.

The developed portion of the site contains no existing drainage inlets or subsurface pipe systems. A large pervious berm exists along the north banks of the Upper Dry Comal Creek, which protects the property from constant flooding from offsite stormwater runoff. The existing stormwater runoff generated onsite sheet flows towards the southeastern edge of the property before entering the Upper Dry Comal Creek. The Upper Dry Comal Creek is part of the Dry Comal Creek watershed, which eventually drains into the Comal River. The berm structure is a pervious structure.

Existing (Before 1984)

The site improvements installed before 1984 created less than 20% impervious cover to the 18.44 acre site. The improvements installed before 1984 created 2.32% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed before 1984 created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 5 Residence Structure & Driveway, Built 1950's
- Building 4 Wine Tasting Building, Built 1970's
- Building 2 Winery, built 1970's (Shown in Yellow on Impervious Cover Exhibit located in Section 3)

Present (After 1984)

The site improvements installed after 1984 to the present created less than 20% impervious cover to the 18.44 acre site. The improvements installed after 1984 to the present created 8.19% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed after 1984 to the present created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 1 Storage & Office Space, built 2000's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's (Shown in Purple & Blue on Impervious Cover Exhibit located in Section 3)

Proposed (2011)

The proposed improvements are minor in nature and will include the construction of a new septic tank and utility tie-in lines for the existing buildings on the property. An aerobic spray irrigation system will also be provided onsite. The project scope does not

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

include the addition of any stormwater drainage infrastructure to the site. The project includes the addition of less than 1/2% impervious cover to the gross area of the site and impact on drainage for the proposed conditions can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

 Proposed OSSF planned to be installed 2011 (Shown in Orange on Impervious Cover Exhibit located in Section 3)

This WPAP has been prepared for the site based on the regulated activity that has occurred and will occur over the Edwards Aquifer Recharge Zone in accordance with the Edwards Aquifer Protection Program Rules as specified in Title 30 of the Texas Administrative Code, Section 213 (30 TAC 213, effective June 1, 1999). Because the improvements installed after 1984 to the present created only 8.19% impervious cover and the proposed OSSF improvements will consist of minor construction and an addition of less than 1/2% impervious cover to the gross area of the site, the owner is requesting a waiver of the requirement for permanent BMPs. The OSSF project is to begin as soon as the proper permits are acquired and is planned to be completed within 2 months (after site plan approval).

Water Pollution Abatement Plan Application

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

REGULATED ENTITY NAME: _____Eranklin D. Houser Dry Comal Creek Unegards

REGULATED ENTITY INFORMATION

- 2. Total site acreage (size of property): <u>18.44 ac</u>
- 3. Projected population: 0 20 people
- 4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	*26,077 ft ²	÷ 43,560 =	0.60 acres
Parking	37,268 ft ²	÷ 43,560 =	0.86 acres
Other paved surfaces	21,557 ft ²	÷ 43,560 =	0.49 acres
Total Impervious Cover	84,902 ft ²	÷ 43,560 =	1.95 acres
Total Impervious Cover ÷ Total Acr	eage x 100 =		10.57%

* Includes residential structure and residential structure driveway, wine tasting building, and winery building installed prior to 1984.

- 5. <u>X</u> ATTACHMENT A Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. <u>X</u> 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.): Width of R.O.W.: L x W = Ft² ÷ 43,560 Ft²/Acre =	feet. feet. acres.
10.	Length of pavement area: Width of pavement area: L x W = Ft ² ÷ 43,560 Ft ² /Acre = Pavement area acres ÷ R.O.W. area	feet. feet. acres. 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. X ATTACHMENT B - Volume and Character of Stormwater. A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

WASTEWATER TO BE GENERATED BY THE PROPOSED PROJECT

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

<u>100</u> % Domestic	<u>540</u> gallons/day
% Industrial	gallons/day
% Commingled	gallons/day

TOTAL <u>540</u> gallons/day

- 15. Wastewater will be disposed of by:
 - X On-Site Sewage Facility (OSSF/Septic Tank):
 - X ATTACHMENT C Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.
 - X 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.
 - <u>N/A</u> Sewage Collection System (Sewer Lines):
 - Private service laterals from the wastewater generating facilities will be connected to an existing SCS.

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

The proposed improvements include the replacement of a septic tank, which is installed underground.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	58,325	1.34	1990's
	Total Impervious Cover	84,902	1.95	

Total Site	18.44
Total Impervious Cover	10.57%
Before 1984	2.32%
1984 to Present	8.19%
Proposed	0.06%
	10.57%

The construction of these improvements from 1984 to the present and including the proposed OSSF improvements scheduled for 2011 will add approximately 66,253 square feet (1.52 acres) of impervious cover to the 18.44 acre site. Currently, the site contains existing buildings, existing driveways and existing miscellaneous impervious covers which make up approximately 84,902 square feet (1.95 acres) of impervious cover. The addition of the proposed OSSF will add 500 square feet (0.01 acres). Therefore, the addition of the proposed impervious cover amounts to less than 20% of the gross site area and can be assumed negligible. The offsite areas that contribute to the site and affect onsite drainage were considered as undeveloped sparsely wooded land.

The hydrology calculations for existing and proposed conditions are broken out in the tables below. Table 1 shows existing conditions stormwater runoff for improvements installed before 1984.

Table 1 – Before 1984 Existing Conditions Hydrology Calculations							
Area ID	Area	"C" Value	Tc	I 10	I100	Q10	Q100
01	2.37	0.38	20	5.44	8.51	4.90	7.66
O2	1.41	0.38	20	5.44	8.51	2.91	4.56
O3	2.86	0.38	20	5.44	8.51	5.91	9.25
1	1.33	0.41	20	5.44	8.51	2.97	4.64
O2 + 1	2.74	0.39	20	5.44	8.51	5.81	9.09
2	11.69	0.40	20	5.44	8.51	25.44	39.79
O1 + O2 + O3							
+1 + 2	19.66	0.39	20	5.44	8.51	42.13	65.91

Table 2 shows existing conditions stormwater runoff for improvements installed from 1984 to present & including the proposed OSSF improvement.

70.11	A 1.6	1004 0 0	10	N* 4 * *	1 1 /		· · · · · · · · · · · · · · · · · · ·		
Table 2 – After 1984 & Proposed Conditions Hydrology Calculations									
Area ID	Area	"C" Value	Tc	Ito	I100	Q10	Q100		
01	2.37	0.38	20	5.44	8.51	4.90	7.66		
O2	1.41	0.38	20	5.44	8.51	2.91	4.56		
O3	2.86	0.38	20	5.44	8.51	5.91	9.25		
1	1.33	0.47	20	5.44	8.51	3.40	5.32		
O2 + 1	2.74	0.42	20	5.44	8.51	6.26	9.79		
2	11.69	0.44	20	5.44	8.51	27.98	43.77		
O1 + O2 + O3									
+1+2	19.66	0.42	20	5.44	8.51	45.11	70.56		

The additional runoff added to the site from 1984 to the present and including the proposed OSSF improvements when compared to runoff conditions prior to 1984 is a minimal 2.98 cfs Q10 and 4.65 cfs Q100. These additional runoff flows are negligible compared to the entire 18.44 acre site.

Drainage Area 1 drains from the north to the south through the proposed project area. The remainder of the site has been calculated with Drainage Area 2, which flows across the site into the adjacent creek and its 100 yr floodplain. Both drainage areas are located entirely over the Edwards Aquifer Recharge Zone.

The flows directed from this site are in the form of sheet flow and the calculated values are considered as the total contribution to the adjacent creek. Total flow contribution to the creek from the site is not a point discharge. All existing drainage patterns were not altered by the proposed improvements.

ATTACHMENT "A" 20% of Less Impervious Cover Waiver

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.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	58,325	1.34	1990's
	Total Impervious Cover	84,902	1.95	

Total Site Total Impervious Cover	18.44 10.57%
Before 1984	2.32%
1984 to Present	8.19%
Proposed	0.06%
	10.57%

* Dry Comal Creek Vineyards Inc. is requesting a waiver of the requirement for permanent BMPs to be used at this site.

<u>ATTACHMENT "B"</u> BMP's for Upgradient Stormwater

Up gradient stormwater currently sheet flows over land through the site from a high point located to the northwest of the site on the property across Herbelin Rd. The flow is over natural soil conditions and has no obstructions preventing its natural path. Currently, the existing site that includes buildings, driveways, and miscellaneous concrete is not impacted by the sheet flow upgradient. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "C" BMP's for On-Site Stormwater

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since site improvements from 1984 to the present including the proposed OSSF improvements increased impervious cover from 2.32% to 8.19%, 4.65 CFS Q100 of additional stormwater runoff, and minim al soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "D" BMP's for Surface Streams

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

The natural vegetation located downgradient of proposed improvements will provide additional filtration to help prevent pollution from entering streams, sensitive features and the aquifer. According to the Geologic Assessment, all sensitive features within the identified boundary are located upstream of the project site and should not be impacted by this work.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

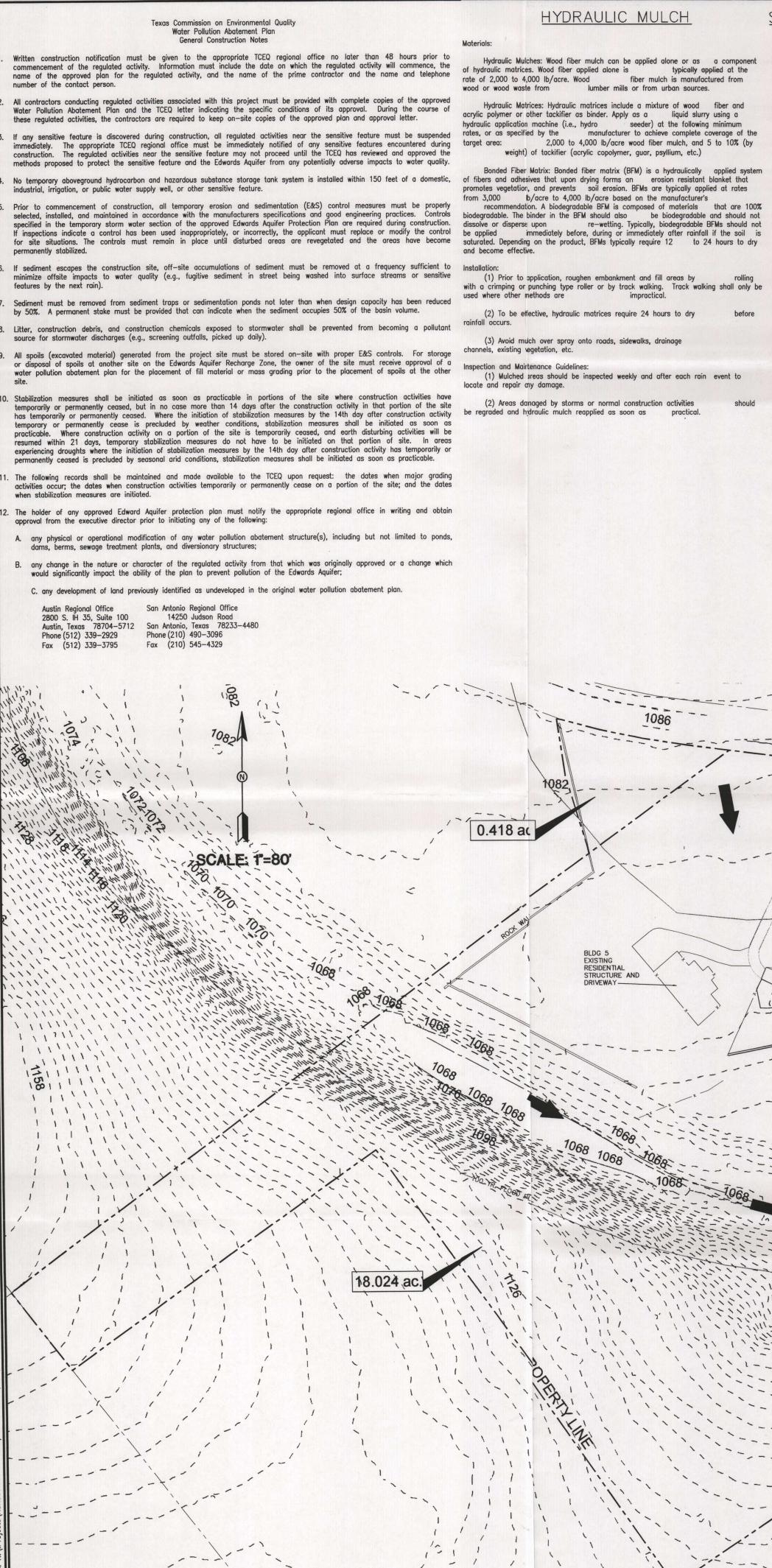


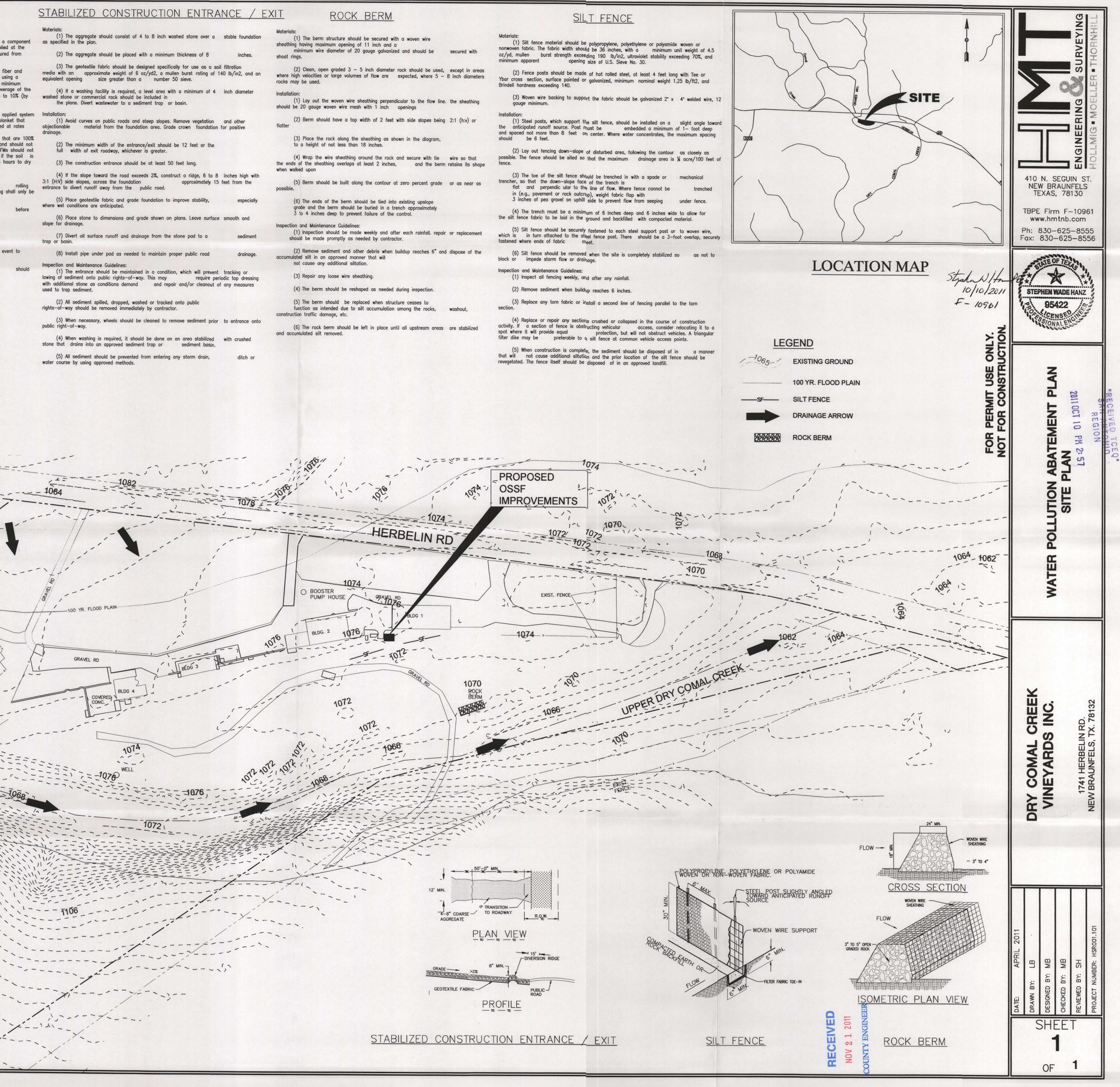
TCEQ Core Data Form

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

SECTION	NI: Gen	eral Information								
		on (If other is checked pleas								
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)										
Renewal (Core Data Form should be submitted with the renewal form) Other										
2. Attachmer		Describe Any Attachments:	(ex. Title V Appli	cation, Waste	e Transpon	ter Application, e	etc.)			
Yes		VPAP								
3. Customer	Reference	Number (if issued)	Follow this link for CN or RN r		4. Regu	Ilated Entity R	Referei	nce Numb	er <i>(if issue</i>	d)
CN	_	_	Central Re		RN					
SECTION	<u>NII: Cus</u>	stomer Information								
5. Effective [Date for Cus	tomer Information Updates	(mm/dd/yyyy)							
6. Customer	Role (Propos	sed or Actual) - as it relates to th	e <u>Regulated Entit</u>	y listed on th	is form. Ple	ease check only	<u>one</u> of	the following	g:	
Owner		Operator	Own	er & Operat	or					
Occupatio	nal Licensee	Responsible Party	🗌 Volur	ntary Clean	up Applica	ant 🗌 OI	ther:			-
7. General C	ustomer Inf	ormation							10	D
🔳 New Cust	tomer	L U	pdate to Custor	ner Informa	tion	🗌 Cha	nge in	Regulated	Entity Own	ership
-	-	e (Verifiable with the Texas Se	-				Change	**	CT	REPZ
**If "No Cha	nge" and Se	ection I is complete, skip to .	Section III - Re	gulated En	tity Infor	mation.			N	OZT
8. Type of Ci	ustomer:	Corporation	🗌 🗌 Indiv	ridual		Sole Propr	ietorsh	ip- D.B.A	-	00-
City Gove	ernment	County Government	E Fede	eral Govern	ment	State Gove	ernmen	it	MA	1 20
Other Go	vemment	General Partnership	🗌 Limit	ted Partners	hip	Other:			1: 30	
9. Customer	Legal Name	e (If an individual, print last name	first: ex: Doe, Jo	hn) <u>If n</u> bel		ner, enter previ	ious Cu	istomer	<u>End l</u>	
		- ranklin D. Houser								
	1741 HE	RBELIN RD								
10. Mailing					-					
Address:	City N	IEW BRAUNFELS	State T	x	ZIP 78	132		ZIP + 4	1838	
11 Country		rmation (if outside USA)				ess (if applicable			1.000	
TI. Country				12. 2-1			<i>!</i> /			
13. Telephor	ne Number		14. Extension	or Code		15. Fax N	lumbe	(if applica	able)	
(830)	- 456-2	787				(830)	- 6	885-70	01	
16. Federal 1	Tax ID (9 digits	17. TX State Franchise T	ax ID (11 digits)	18. DUN	IS Numbe	er (if applicable)	19. TX	SOS Filir	ng Number	(if applicable)
7428805	80	17428805802		N/A			1492	210900		
20. Number	of Employee	25				21. Ind	epend	ently Owr	ned and Op	erated?
0-20	21-100	101-250 251-500	501 and I	nigher			T Y	es	🗌 No	
SECTION		gulated Entity Info	rmation							

22. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)							
New Regulated Entity	Update to Regulated Entity Name	Update to Regulated Entity Information	No Change** (See below)				
	"If "NO CHANGE" is checked and Section I	is complete, skip to Section IV, Preparer Information.					
23. Regulated Entity Name (name of the site where the regulated action is taking place)							
DRY COMAL CREEK VINEYARDS, INC.							



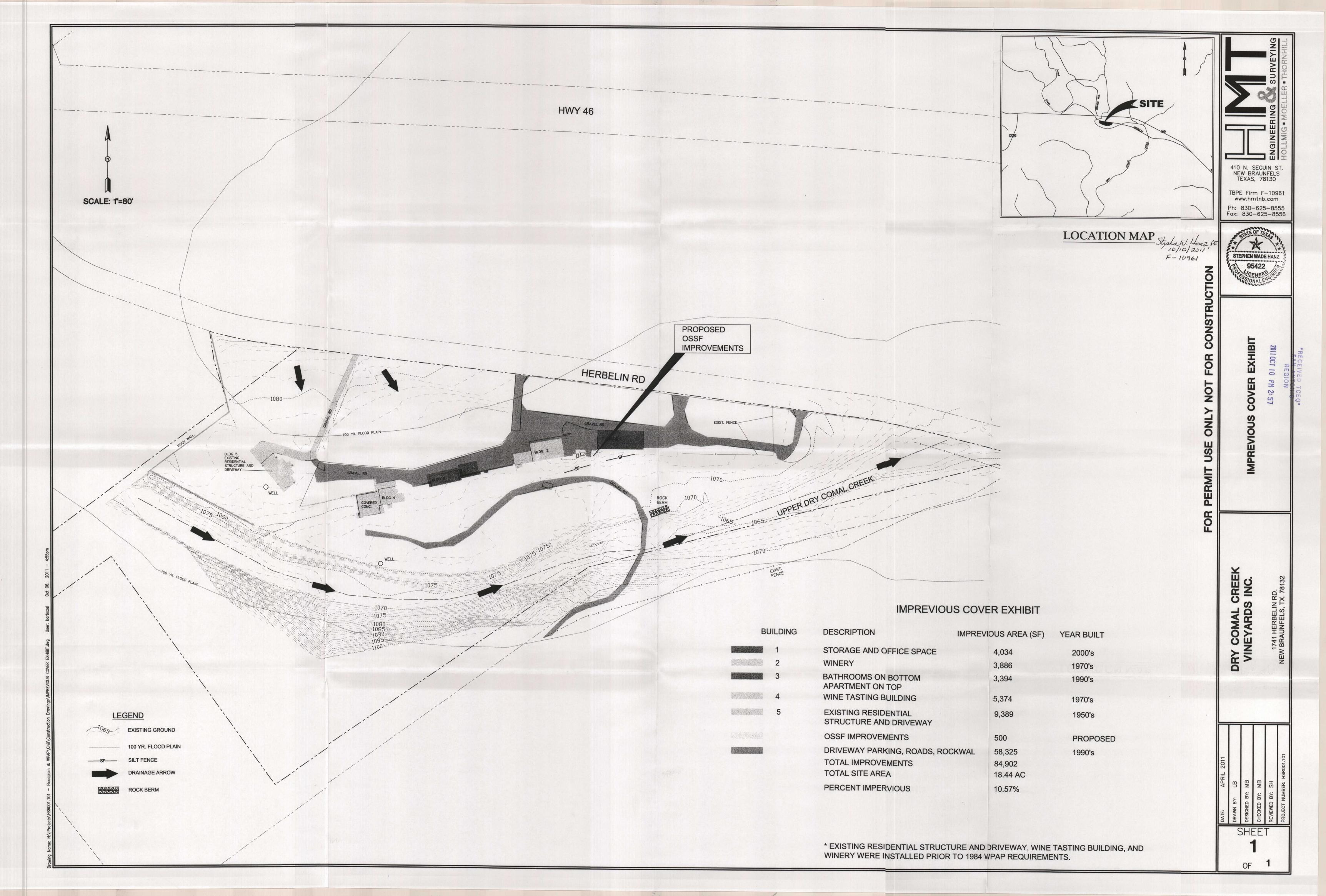


rolling

before

- public right-of-way.

- stone that drains into an approved sediment trap or sediment basin.



GEOLOGIC ASSESSMENT

For: Water Pollution Abatement Plan

For: Franklin D. Houser 1741 Herbelin Road New Braunfels, Comal County, Texas



Prepared for:

HMT Engineering & Surveying 401 N. Seguin Avenue New Braunfels, Texas 78130

October 2011 Arias Job No.: 2011-199rev



Geologic Assessment

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

REGULATED ENTITY NAME: ____ Franklin D. Houser

TYPE OF PROJECT: X_WPAP ____AST ___ SCS ___UST

LOCATION OF PROJECT: X Recharge Zone Transition Zone Contributing Zone within the Transition Zone

PROJECT INFORMATION

- 1. X Geologic or manmade features are described and evaluated using the attached GEOLOGIC ASSESSMENT TABLE.
- 2. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Soil Units, Inf Characteristics &	* Soil Group Definitions (Abbreviated)		
Soil Name	Group*	Thickness (feet)	A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
Tarpley clay (TaB), 1 to 3 percent slopes	D	0.5 – 1.5	B. Soils having a <u>moderate</u> <u>infiltration</u> rate when thoroughly wetted.
Comfort Rock-Outcrop (CrD) 1 to 8 percent slopes	D	0 to 0.2	C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted. D. Soils having a <u>very slow</u>
			infiltration rate when thoroughly wetted.

- З. A STRATIGRAPHIC COLUMN is attached at the end of this form that shows formations. Х members, and thicknesses. The outcropping unit should be at the top of the stratigraphic column.
- A NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY is attached at the end of 4. X this form. The description must include a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure, and karst characteristics of the site.
- 5. X Appropriate SITE GEOLOGIC MAP(S) is attached:

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 Site Geologic Map Scale Site Soils Map Scale (if more than 1 soil type) 1" = N/A (included with Geologic Map)

1" = _____80' 1" = 80'

6. Method of collecting positional data:

Global Positioning System (GPS) technology.

- X Other method(s).
- 7. X The project site is shown and labeled on the Site Geologic Map.
- 8. X Surface geologic units are shown and labeled on the Site Geologic Map.
- 9. <u>X</u> 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.
- 10. X The Recharge Zone boundary is shown and labeled, if appropriate. The Recharge Zone boundary falls outside of the Site Geologic map extent and is therefore not shown.
- 11. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.):
 - X There are 2 (#) 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.
 - \underline{X} 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

12. 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.

Date(s) Geologic Assessment was performed:	April 11 & October 7, 2011	
	Date(s)	

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.

Michelle M. Lee, P.G. Print Name of Geologist	TATE OF TEANUL	210.308.5884 Telephone
	MICHELLE M. LEE	210.308.5886 Fax
Signature of Geologist	6071 6071 6071 6071	October 10, 2011 Date
Representing: <u>Arias & Asso</u> (Name of Co		

_ _ _ _ _

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

		ONCHETT	ADLE	_	000	ICCT NA	ALL Parts			-						_		_	-	
	GIC ASSES				PRO	JECT NA	ME: Fran						_							
	N - 1741 Hert						FEAT	URE CHAR	ACTERISTI				_		EVALUATION PHYSICAL				SICAL SE	
1A	18 *	10.	2A	29	3		4		5	5A	0	7	88	68	9		10	1	1	12
FEATURE ID	LATTUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION		DIMENSIONS (FEET)		TREND (DEGREES)	ЮИ	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE	TOTAL	SENS	MMTY	GATCHIMENT A	REA (ACRES)	TOPOGRAPHY
						x	Y	z		10						<40	≥49.	<1.6	<u>≥1,6</u>	
S-1	29.77031	98.27515	SCZ	30	Kek	7	2	1.8	40 ⁰		2/ft	0.3	F,O	8	38	X			X	Cliff
S-2	29.77018	98.27502	С	30	Kek	5	3.5	1	4 ⁰				F,O	16	46		X		Х	Cliff
S-3	29.77007	98.27480	SC	20	Kek	3.2	1	1.7	2 ⁰				F,O	11	31	X			Х	Cliff
S-4	29.76984	98.27245	0	5	Kek	100	35	3.5	52 ⁰	10			N	16	31	X			X	Streambed
S-5	29.76984	98.27251	0	5	Kek	22	9	3.5	88 ⁰				N	16	21	X			Х	Streambed
S-6	29.77024	98.27484	CD	5	Kek	425	40	11	275 ⁰				F	10	15	Х			Х	Streambed
S-7	29.77046	98.27417	MB - well	30	Kek	0.6	0.6	~600	NA				NA	7	37	X			X	Hillside
S-8	29.77081	98.27237	MB - booster	30	Kek	0.6	0.6	?	NĂ				NA	7	37	Х			X	Hillside
S-9	29.77006	98.27353	MB - well	30	Kek	0.6	0.6	~400	NA				NA	7	37	X			Х	Hillside
															0					
															0					
															0					
															0					
															0					
															0					
															0					
DATUM: NAD	02														0					<u> </u>
2A TYPE	00	TYPE		2B.P(DINTS						8A INF									
The rest of the test	Cave	177 2		2011	30		N	e, exposed be	drock			iccirto								
	Solution cavity				20				n, sand, gravel											
	Solution-enlarge	d fronturo(o)			20				eaves, sticks, da	di aalam										
	Fault	eo macture(s)			20			-	oil profile, gray o											
	Other natural be	drock features			5		0.00													
	Manmade featu				30		V : details in narrative description FS , cements, cave deposits						1							
	Swallow hole				30		X Other materials													
11	Sinkhole				20						_				-	-				
10000	Non-karst close	d depression			5					12 TOPO	GRAPHY									
	Zone, clustered		res		30		Cliff, Hilltop, H	lillside, Draina	ge, Floodplain,	Streambed										

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

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

Date atober 10,2011

SOIL NARRATIVE

FRANKLIN D. HOUSER <u>1741 HERBELIN ROAD</u> NEW BRAUNFELS, COMAL COUNTY, TEXAS

In accordance with the United States Department of Agriculture (USDA) Web Soil Survey, the natural surface soils over the project area are considered to be within the Tarpley clay (TaB) and Comfort-Rock outcrop complex (CrD) groups.

The Tarpley clay (TaB) soils typically have a 1 to 3 percent slope are located on the north side of the Dry Comal Creek. The vineyards at the Site are planted in the TaB soils. These soils are well drained and have a moderately low to moderately high capacity to transmit water. A typical profile of TaB soils is clay from the surface to about 17" where bedrock is encountered.

The Comfort-Rock outcrop complex (CrD) have slopes that range from 1 to 8 percent. At the Site, these soils are located along the southern perimeter where the Edwards Limestone outcrops. These soils are well drained and have a moderately low to moderately high capacity to transmit water. A typical profile of CrD soils is extremely stony clay to maybe six inches then bedrock.

STRATIGRAPHIC COLUMN

FRANKLIN D. HOUSER <u>1741 HERBELIN ROAD</u> NEW BRAUNFELS, COMAL COUNTY, TEXAS

Hydro subc	geolo livisio	-	Gro		ormation or ember	Hydrologic Function	Thickness (feet)	Lithology	Cavern development	Porosity / permeability type
Upper Cretaceous		pper fining	E	Buda	Formation	CU	40-50	Buff, light gray, dense mudstone	Minor surface karst	Low porosity /low permeability
Up Creta		nits		D	el Rio Clay	CU	40-50	Blue-green to yellow-brown clay	None	None / primary upper confining unit
	Ι				eorgetown rmation	Karst AQ; not karst CU		Reddish-brown, gray to light tan marly limestone	None	Low porosity / low permeability
	11			ш	Cyclic & marine members undivided	AQ	89-90	Mudstone to packstone; miliolid grainstone; chert	Many sub- surface	Laterally extensive; water yielding
	111	ег		son	Leached & collapsed members	AQ	70-90	Crystalline limestone; mudstone to grainstone; chert collapsed breccia	Extensive lateral development; large rooms	Majority not fabric / one of the most permeable
ceous	IV	Aquif	roup	Per	Regional dense members	CU	20-24	Dense, argillaceous mudstone	Very few; only vertical fracture enlargement	Not fabric / low permeability; vertical barrier
Cretao	v	rds	d s G		Grainstone member	AQ	50-60	Miliolid grainstone; mudstone to wackestone; chert	Few	Not fabric / recrystallization reduces permeability
Lower	VI	Edwa	Edwar	E LL	Kirschberg evaporite member	AQ	50-60	Highly altered crystalline limestone; chalky mudstone; chert	Probably extensive cave development	Majority fabric / one of the most permeable
	VII			1 e r	Dolomitic member	AQ	110-130	Mudstone to grainstone; crystalline limestone; chert	Caves related to structure or bedding planes	Mostly not fabric; some bedding plane fabric / water-yielding
-	VIII			Kai	Basal nodular member	Karst AQ; not karst CU	50-60	Shaly, nodular limestone; mudstone and miliolid grainstone	Large lateral caves at surface	Fabric; stratigraphically controlled/ large conduit flow at surface; no permeability in subsurface
	cont	wer fining nit			ember of the se Limestone	CU; evaporite beds AQ	350-500	Yellowish tan, thinly bedded limestone and marl	Some surface cave development	Some water production at evaporite beds / relatively impermeable

Reference: U.S.G.S. Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone,

Bexar County, Texas; Water-Resources Investigations Report 95-4030

Note: CU = Confining Unit; AQ = Aquifer

Indicates Mapped Surface Formation

SITE SPECIFIC GEOLOGY NARRATIVE

FRANKLIN D. HOUSER <u>1741 HERBELIN ROAD</u> <u>NEW BRAUNFELS, COMAL COUNTY, TEXAS</u>

Introduction

A Geologic Assessment (GA) was performed for the above-referenced site on April 11 & October 7, 2011 by Michelle M. Lee, P.G. #6071. The GA was performed in accordance with the Texas Commission on Environmental Quality (TCEQ) *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones, TCEQ-0585-Instructions (Rev. 10-01-04).* Nine potential recharge features (S-1 through S-9), as defined by TCEQ-0585, were observed on the surface of the Site at the time of this assessment.

Background

The project area is currently operating as a winery and vineyard. Within this project area, there are several buildings that house various functions to produce wine. The Dry Comal Creek is on Site and is bordered on the south by a tall vertical rock cliff. The cliff disappears as the creek turns north towards Herbelin Rd.

Stratigraphy

According to the Bureau of Economic Geology of the Smithson Valley Topographic Quadrangle by E.W. Collins 1992, the surface geologic formation at the Site is mapped as the Cretaceous aged Edwards Group, Kainer Formation. This formation is generally up to 220 feet thick or more, and consist of limestone, chert, and marlstone, and forms the lower half of the Edwards Group.

Structure

Faults were not observed at the time of this assessment. Bureau of Economic Geology of the Smithson Valley Topographic Quadrangle by E.W. Collins 1992 does not show any mapped faults at the Site.

Karstic Characteristics

Karst features were observed on the Site at the time of this assessment. One Cave, **S-2**, (sensitive), one solution cavity, **S-3**, (not sensitive) and one solution cavity zone, **S-1**, (not sensitive) were observed at the Site during field reconnaissance. These features were observed high atop the vertical rock cliff in the southwestern portion of the Site. Although the cave is ranked sensitive, it is due to the high point value assigned to features of this type. There is a slight slope above the cave area such that it might capture some runoff during heavy storm events. The cave was infilled with fine-grained sediment and organic material. Probability of rapid infiltration to the subsurface is very low.

The area that is in the southwest and southern portion of the Site above the rock cliff was observed to be highly solutioned at the time of field reconnaissance. Although numerous solutioned features were observed, there was no observable inter-connectedness amongst them. Additionally fine-grained soil and sediment was observed at the toe or bottom of the solutioned blocks indicating that probability of rapid infiltration to the subsurface is low.

The other two karst features are located in an area that will receive little to no runoff due to their position high on the vertical rock cliff. Additionally, these features were infilled with fine grained sediment at the time of field reconnaissance. Probability of rapid infiltration to the subsurface is very low. Potential for fluid movement to the aquifer is low over the project area, due to absence of karst and structural features. Additionally, the soil cover, where present, at the Site appears to impede flow of fluids to the subsurface.

Feature Discussion SENSITIVE FEATURE S-2: Cave (C)

S-2 is a small cave located near the top of the ridge in the southwestern portion of the site. The feature meets the definition of a cave as set forth by the TCEQ Instructions to Geologists. The feature measures ~5.2 wide by ~3.5 ft tall and ~10 ft deep and is filled with fine-grained sediment and organics. The feature will not receive direct recharge given the location at the top of a steep rock cliff. If any recharge occurs it will be by runoff from areas up slope from the feature. Probability of rapid infiltration is low. However, since the feature ranks at 30 points and has a low probability of rapid infiltration rate of 16 points that automatically makes **S-2** sensitive.

NOT SENSITIVE FEATURES

S-1: Solution Cavity Zone (SCZ)

S-1 is a band of solution cavities of varying sizes located near the top of the rock cliff in the southwestern portion of the Site. The zone measures ~ 70 ft long by 20 ft tall with the deepest SC measuring approximately 1.5 ft. Infilling was observed to be fine-grained sediment in addition to organic materials. The zone trends at 40° and has a low probability of rapid infiltration.

S-3: Solution Cavity (SC)

This solution cavity measured \sim 3.2 ft x \sim 1 ft x \sim 1.7 ft and is located near the top of the rock cliff along the southern perimeter of the Site. Based on the location and orientation of this feature, in addition to the fine-grained sediment observed as the infilling, the probability of rapid infiltration is low.

S-4: Other Feature in Bedrock (O)

Feature **S-4** is an Other Feature in Bedrock. The portion of Dry Comal Creek from the western perimeter to the eastern third of the creek has been manually cleared of all debris, vegetation and float material exposing solid bedrock. This feature is a closed depression measuring approximately 100 ft x 35 ft x 3.5 ft at its deepest point. The bedrock was observed to be flaggy and intact with very minor fracturing. The feature will have a tendency to hold water when present. Based on the cohesive nature of the exposed bedrock, probability of rapid infiltration is very low.

S-5: Other Feature in Bedrock (O)

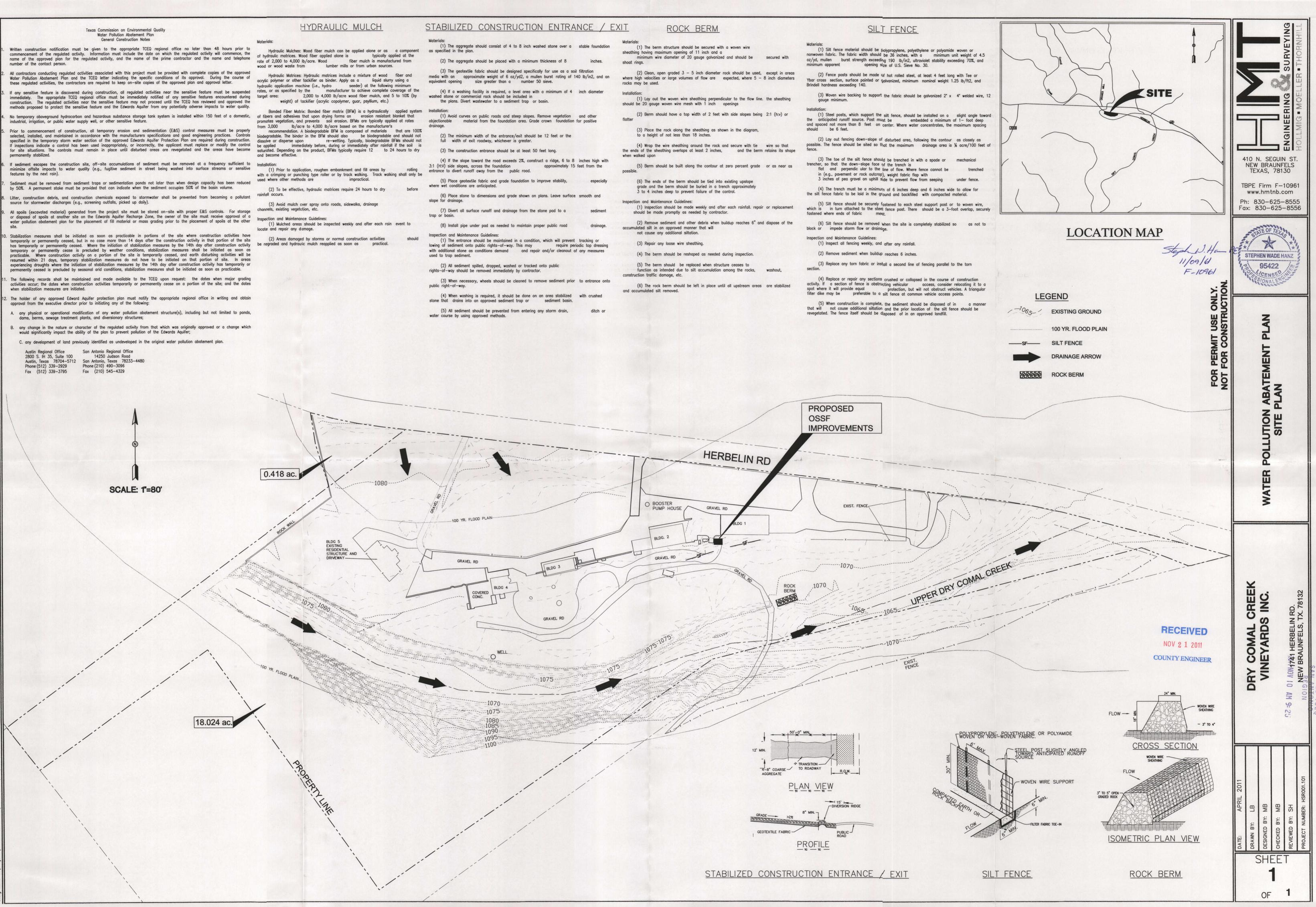
Feature **S-5** is very similar to **S-4** but is separated in distance by about 75 ft. Probability of rapid infiltration rate is very low.

S-6: Closed Depression (CD)

Feature **S-6** is a closed depression located at the base of the rock cliff in the southwestern corner of the Site. This closed depression measures approximately 425 ft x 40 ft x 11 ft deep. It is a man-made pond created by the landowner that was observed to be holding water at the time of this assessment.

S-7, S-8 & S-9: Water Wells & Booster Pump Station

Well **S-7** serves the on site residence and is located in an enclosed structure next to the house. **S-9** is used in the production of the wine and is located near the center of the sitting area under the trees. The probability of rapid infiltration to the subsurface is very low. **S-8** is a booster pump station located to the north of the production building and is also in an enclosed structure. This feature also has a very low probability of rapid infiltration into the subsurface.



BILIZED	CONSTRUCTION	ENTRANCE	/ FXIT

November 9, 2011



RECEIVED NOV 2 1 2011 COUNTY ENGINEER

Javier Anguiano Texas Commission on Environmental Quality, EAPP, Region 13 - San Antonio 14250 Judson Road San Antonio, Texas 78233

Edwards Aquifer, Comal County RE: NAME OF PROJECT: Dry Comal Creek Vineyards; located at 1741 Herbelin Rd.; New Braunfels, Texas TYPE OF PLAN: Request for the approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer; Edwards Aquifer Protection Program San Antonio File No. 3000.00; Investigation No. 948278; Regulated Entity No. RN106201189

Mr. Anguiano,

This letter is in response to comments email dated October 26, 2011 for the above referenced project.

1. As stated in your October 26, 2011 email: As previously discussed, it appears that the parking area that we parked on at the time of the site assessment (10/4/11) was not shown on the site plan. As such, please confirm that this and similar areas (see attached photo) have been accounted for in the total IC and is shown on the site plan(s). Amend all appropriate forms and attachments.

All pages and sites plans have been updated per the below summary to account for the additional impervious cover as pointed out in your above mentioned email. 0

Impervious Cover Prior to 1984:	2.32%
Impervious Cover after 1984:	10.57%
Proposed OSSF:	0.06%
Total:	12.95%

Thank you for your help and assistance with this matter. If you have any further questions or comments, please call Stephen at (830) 625-8555

Styphe W. Hanz, PE F- 10961



AM 9:

General Information

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

There will be no floodplain modifications associated with this proposed OSSF work. In addition, the site does not have a Critical Water Quality Zone and there are no areas planned to be irrigated with wastewater.

The developed portion of the site contains no existing drainage inlets or subsurface pipe systems. A large pervious berm exists along the north banks of the Upper Dry Comal Creek, which protects the property from constant flooding from offsite stormwater runoff. The existing stormwater runoff generated onsite sheet flows towards the southeastern edge of the property before entering the Upper Dry Comal Creek. The Upper Dry Comal Creek is part of the Dry Comal Creek watershed, which eventually drains into the Comal River. The berm structure is a pervious structure.

Existing (Before 1984)

The site improvements installed before 1984 created less than 20% impervious cover to the 18.44 acre site. The improvements installed before 1984 created 2.32% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed before 1984 created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 5 Residence Structure & Driveway, Built 1950's
- Building 4 Wine Tasting Building, Built 1970's
- Building 2 Winery, built 1970's (Shown in Yellow on Impervious Cover Exhibit located in Section 3)

Present (After 1984)

The site improvements installed after 1984 to the present created less than 20% impervious cover to the 18.44 acre site. The improvements installed after 1984 to the present created 10.57% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed after 1984 to the present created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 1 Storage & Office Space, built 2000's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's (Shown in Purple & Blue on Impervious Cover Exhibit located in Section 3)

Proposed (2011)

The proposed improvements are minor in nature and will include the construction of a new septic tank and utility tie-in lines for the existing buildings on the property. An aerobic spray irrigation system will also be provided onsite. The project scope does not

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

include the addition of any stormwater drainage infrastructure to the site. The project includes the addition of less than 1/2% (0.06%) impervious cover to the gross area of the site and impact on drainage for the proposed conditions can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

 Proposed OSSF planned to be installed 2011 (Shown in Orange on Impervious Cover Exhibit located in Section 3)

This WPAP has been prepared for the site based on the regulated activity that has occurred and will occur over the Edwards Aquifer Recharge Zone in accordance with the Edwards Aquifer Protection Program Rules as specified in Title 30 of the Texas Administrative Code, Section 213 (30 TAC 213, effective June 1, 1999). Because the improvements installed after 1984 to the present created only 10.57% impervious cover and the proposed OSSF improvements will consist of minor construction and an addition of less than 1/2% (0.06%) impervious cover to the gross area of the site, the owner is requesting a waiver of the requirement for permanent BMPs. The OSSF project is to begin as soon as the proper permits are acquired and is planned to be completed within 2 months (after site plan approval).

Water Pollution Abatement Plan Application

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

REGULATED ENTITY NAME: _____ Franklin D. Houser _____

REGULATED ENTITY INFORMATION

•	The type of project is:	
	Residential: # of Lots:	
	Residential: # of Living Unit Equivalents:	
	X Commercial	
	Industrial	
	Other:	
		40.44

2.	l otal site acreage (size of property):	18.44 ac	

3.	Projected population:	0 - 20_people
υ.	r rojected population.	

4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	*26,077 ft ²	÷ 43,560 =	0.60 acres
Parking	55,896 ft ²	÷ 43,560 =	1.28 acres
Other paved surfaces	22,057 ft ²	÷ 43,560 =	0.51 acres
Total Impervious Cover	104,030 ft ²	÷ 43,560 =	2.39 acres
Total Impervious Cover ÷ Total Acreage x 100 =			12.95%

* Includes residential structure and residential structure driveway, wine tasting building, and winery building installed prior to 1984.

- 5. <u>X</u> ATTACHMENT A Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. X 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:

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

The proposed improvements include the replacement of a septic tank, which is installed underground.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	77,453	1.78	1990's
	Total Impervious Cover	104,030	2.39	

Total Site	18.44
Total Impervious Cover	12.95%
Before 1984 1984 to Present Proposed	2.32% 10.57% 0.06% 12.95%

The construction of these improvements from 1984 to the present and including the proposed OSSF improvements scheduled for 2011 will add approximately 85,381 square feet (1.96 acres) of impervious cover to the 18.44 acre site. Currently, the site contains existing buildings, existing driveways and existing miscellaneous impervious covers which make up approximately 18,649 square feet (0.43 acres) of impervious cover. The addition of the proposed OSSF will add 500 square feet (0.01 acres). Therefore, the addition of the proposed impervious cover amounts to less than 20% of the gross site area and can be assumed negligible. The offsite areas that contribute to the site and affect onsite drainage were considered as undeveloped sparsely wooded land.

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

æ

ATTACHMENT "A" 20% of Less Impervious Cover Waiver

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.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
•	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	77,453	1.78	1990's
	Total Impervious Cover	104,030	2.39	

Total Site	18.44
Total Impervious Cover	12.95%
Before 1984	2.32%
1984 to Present	10.57%
Proposed	0.06%
	12.95%

* Dry Comal Creek Vineyards Inc. is requesting a waiver of the requirement for permanent BMPs to be used at this site.

ATTACHMENT "B" BMP's for Upgradient Stormwater

Up gradient stormwater currently sheet flows over land through the site from a high point located to the northwest of the site on the property across Herbelin Rd. The flow is over natural soil conditions and has no obstructions preventing its natural path. Currently, the existing site that includes buildings, driveways, and miscellaneous concrete is not impacted by the sheet flow upgradient. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "C" BMP's for On-Site Stormwater

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since site improvements from 1984 to the present including the proposed OSSF improvements increased impervious cover from 2.32% to 10.63%, 4.65 CFS Q100 of additional stormwater runoff, and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

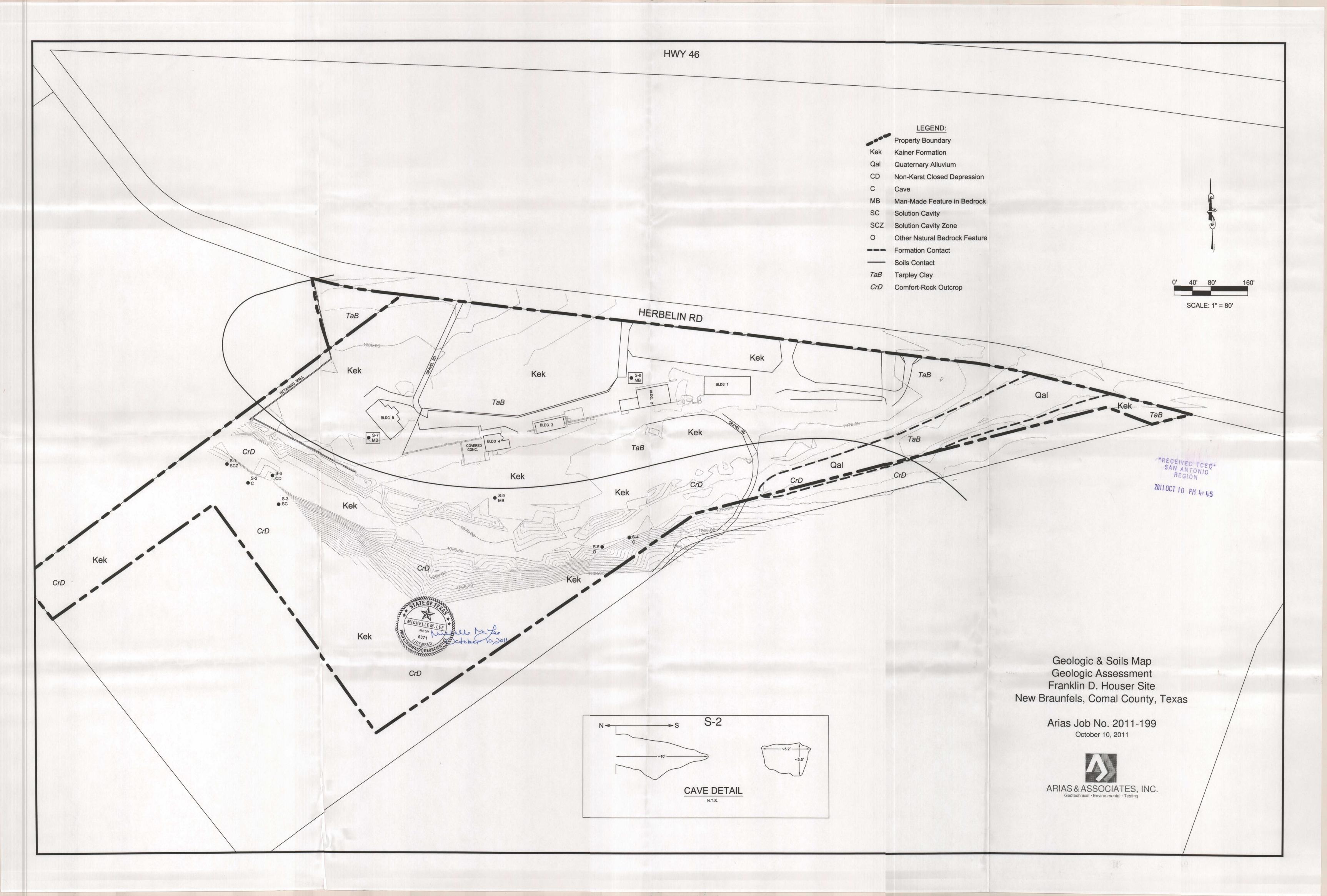
Please refer to the Drainage Area Map in the Temporary Stormwater Section.

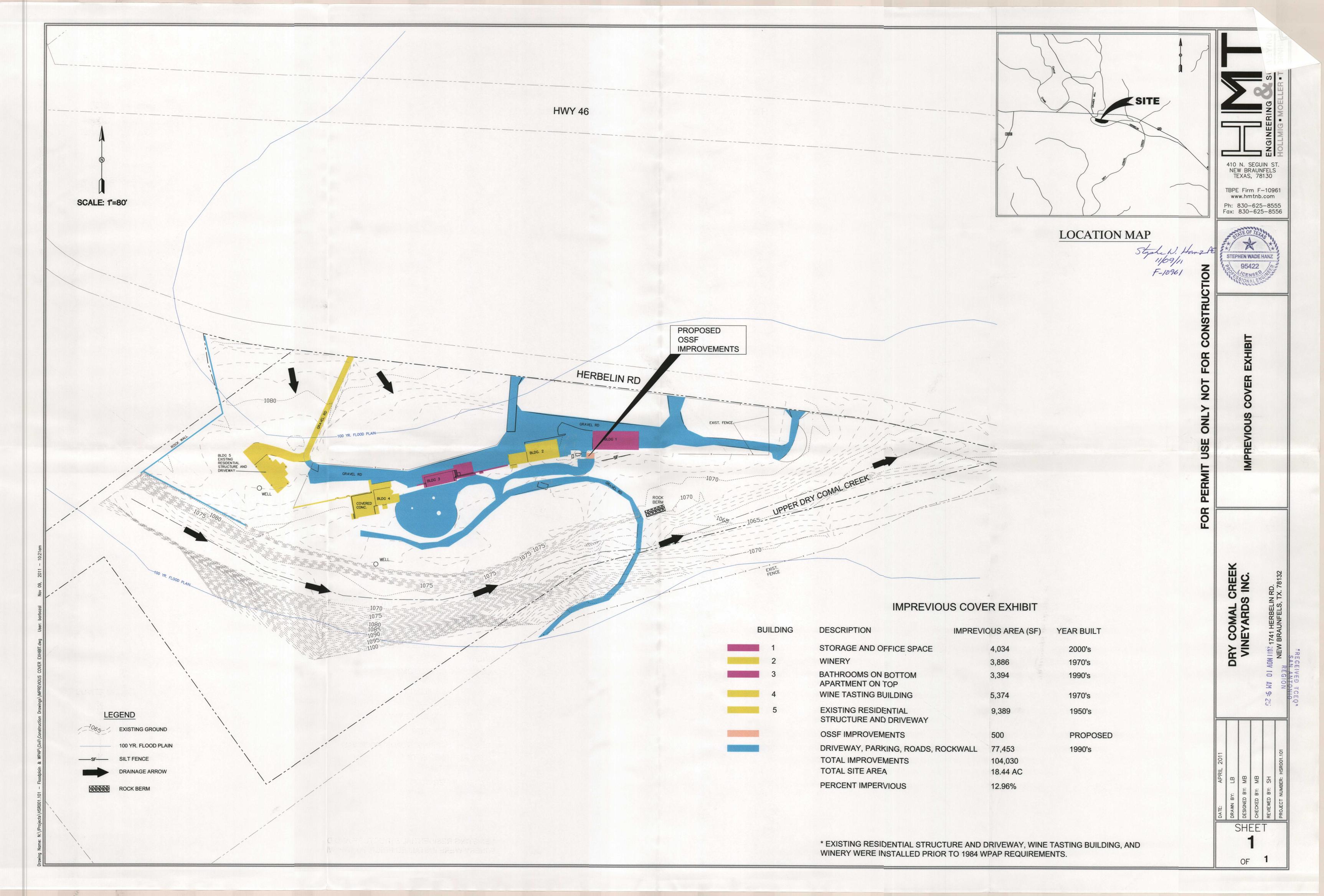
ATTACHMENT "D" BMP's for Surface Streams

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

The natural vegetation located downgradient of proposed improvements will provide additional filtration to help prevent pollution from entering streams, sensitive features and the aquifer. According to the Geologic Assessment, all sensitive features within the identified boundary are located upstream of the project site and should not be impacted by this work.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.





Bryan W. Shaw, Ph.D., *Chairman* Buddy Garcia, *Commissioner* Carlos Rubinstein, *Commissioner* Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 10, 2011

Mr. Franklin Houser Dry Comal Creek Vineyards, Inc. 1741 Herblin Rd. New Braunfels, Texas 78132 RECEIVED

DEC 0 6 2011

COUNTY ENGINEER

Re: Edwards Aquifer, Comal County

Name of Project: Dry Comal Creek Vineyards; Located at 1741 Herblin Rd., approximately 0.30 miles south of the Herblin Rd and SH 46 intersection near Cranes Mill Rd; Comal County, Texas

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

Edwards Aquifer Protection Program San Antonio File No. 3000.00; Investigation No. 948278; Regulated Entity No. RN106201189

Dear Mr. Houser:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP Application for the above-referenced project submitted to the San Antonio Regional Office by HMT Engineering & Surveying on behalf of Mr. Franklin Houser on August 1, 2011. Final review of the WPAP was completed after additional material was received on October 10, October 20, and November 10, 2011. As presented to the TCEQ, the Temporary Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

Background

The above referenced site is an 18.44 acre commercial vineyard and event center containing an existing residential structure and driveway built in the 1950's. The commercial winery contains four buildings with associated access drives, parking areas, on-site sewage facility, and vineyard area all constructed between the 1970's to the present. Prior approval for the construction of the

Reply To: Region 13 • 14250 Judson Rd. • San Antonio, Texas 78233-4480 • 210-490-3096 • Fax 210-545-4329

Mr. Franklin Houser November 10, 2011 Page 2

commercial winery was not obtained in accordance with applicable Edwards Aquifer Recharge Zone rules. The submitted WPAP, approved by this letter, addresses the unauthorized activities.

Project Description

The proposed commercial project is located in the 18.44 acre site. It will include the construction and installation of an on-site sewage facility and associated utility lines. This approval also includes the existing structures and other impervious cover constructed without prior approval. The total impervious cover for the site will be 2.39 acres (12.95 percent). According to a letter dated, May 31, 2011, signed by Mr. Robert Boyd, P.E., with Comal County, the site in the development is acceptable for the use of on-site sewage facilities.

Permanent Pollution Abatement Measures

This small business will not have more than 20 percent impervious cover.

Geology

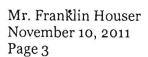
According to the geologic assessment included with the application, the site is located on the Dolomitic Member of the Edwards Kainer Formation with a northeast portion of the site located on the Quaternary Alluvium. The geologic assessment noted five geologic and four man-made features, of which, Feature S-2 (cave) was assessed as sensitive. The San Antonio Regional Office site assessment conducted on October 4, 2011 revealed no new features and that the site was generally as described in the application.

Sensitive Features

Feature S-2 is located on a cliff face within a portion of the site that is shown as not to be disturbed.

Special Conditions

- 1. The applicant requested a waiver to the requirement for other permanent BMPs for this commercial project because the development will have less than 20 percent impervious cover. Based on the TCEQ's Review of the proposed activities and the site conditions, the required waiver is hereby granted. If the percent impervious cover ever increases above 20 percent or the land use changes, the exemption for the whole site as described in the Water Pollution Abatement Plan may no longer apply and the property owner must notify the San Antonio Regional Office of these changes.
- This approval letter is being issued for regulated activities (as defined in Chapter 213) and for best management practices presented in the application. This approval does not constitute a water right permit or authorization from the TCEQ Dam Safety Program. Failure to obtain all necessary authorizations could result in enforcement actions. For more information on Water Rights Permits, please refer to: <u>http://www.tceq.texas.gov/permitting/water_rights/wr_amiregulated.html</u>



For more information on the Dam Safety program, please refer to: <u>http://www.tceq.texas.gov/field/damsafetyprog.html</u>

- 3. Any subsequent modification of this plan that includes development near Feature S-2 must include appropriate protection measures for the feature.
- 4. Activities observed during the site assessment investigations, conducted on October 4, 2011, are alleged to constitute construction without prior approval of a water pollution abatement plan as required by Commission rules (30 TAC Chapter 213, Sub-Chapter A). Therefore, the applicant is hereby advised that the after-the-fact approval of the development, as provided by this letter, shall not absolve the applicant of any prior violations of Commission rules related to this project, and shall not necessarily preclude the Commission from pursuing appropriate enforcement actions and administrative penalties associated with such violations, as provided in 30 TAC §213.10 of Commission rules.

Standard Conditions

- 1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
- 2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
- 3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

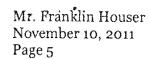
- 4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to

the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.

- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

- 10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. Two wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be



removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.

- 15. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- 21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

Mr. Franklin Houser November 10, 2011 Page 6

22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

• • • •

If you have any questions or require additional information, please contact Mr. Javier Anguiano of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 490-3096.

Sincerely,

Sh. Ruffor

Mark R. Vickery, P.G., Executive Director Texas Commission on Environmental Quality

1

MRV/JA/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

cc: Mr. Stephen W. Hanz, P.E., HMT Engineering & Surveying Mr. Thomas H. Hornseth, P.E., Comal County Mr. Karl J. Dreher, Edwards Aquifer Authority TCEQ Central Records, Building F, MC 212 November 9, 2011



RECEIVED Javier Anguiano Texas Commission on Environmental Quality, EAPP, Region 13 – San Antonio DEC 0 6 2011 14250 Judson Road COUNTY ENGINEER San Antonio, Texas 78233

RE: Edwards Aquifer, Comal County NAME OF PROJECT: Dry Comal Creek Vineyards; located at 1741 Herbelin Rd.; New Braunfels, Texas TYPE OF PLAN: Request for the approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer; Edwards Aquifer Protection Program San Antonio File No. 3000.00; Investigation No. 948278; Regulated Entity No. RN106201189

Mr. Anguiano,

This letter is in response to comments email dated October 26, 2011 for the above referenced project.

1. As stated in your October 26, 2011 email: As previously discussed, it appears that the parking area that we parked on at the time of the site assessment (10/4/11) was not shown on the site plan. As such, please confirm that this and similar areas (see attached photo) have been accounted for in the total IC and is shown on the site plan(s). Amend all appropriate forms and attachments.

All pages and sites plans have been updated per the below summary to account for the 0 additional impervious cover as pointed out in your above mentioned email.

Impervious Cover Prior to 1984:	2.32%
Impervious Cover after 1984:	10.57%
Proposed OSSF:	0.06%
Total:	12.95%

Thank you for your help and assistance with this matter. If you have any further questions or comments, please call Stephen at (830) 625-8555

Styphe W. Hanz, PE 51/09/11 F-10961



0

31

m

9.

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

There will be no floodplain modifications associated with this proposed OSSF work. In addition, the site does not have a Critical Water Quality Zone and there are no areas planned to be irrigated with wastewater.

The developed portion of the site contains no existing drainage inlets or subsurface pipe systems. A large pervious berm exists along the north banks of the Upper Dry Comal Creek, which protects the property from constant flooding from offsite stormwater runoff. The existing stormwater runoff generated onsite sheet flows towards the southeastern edge of the property before entering the Upper Dry Comal Creek. The Upper Dry Comal Creek is part of the Dry Comal Creek watershed, which eventually drains into the Comal River. The berm structure is a pervious structure.

Existing (Before 1984)

The site improvements installed before 1984 created less than 20% impervious cover to the 18.44 acre site. The improvements installed before 1984 created 2.32% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed before 1984 created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 5 Residence Structure & Driveway, Built 1950's
- Building 4 Wine Tasting Building, Built 1970's
- Building 2 Winery, built 1970's (Shown in Yellow on Impervious Cover Exhibit located in Section 3)

Present (After 1984)

The site improvements installed after 1984 to the present created less than 20% impervious cover to the 18.44 acre site. The improvements installed after 1984 to the present created 10.57% impervious cover and does not include the addition of any stormwater drainage infrastructure to the site. Since the improvements installed after 1984 to the present created less than 20% impervious cover to gross area of the site, the impact on drainage can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

- Building 1 Storage & Office Space, built 2000's
- Building 3 Bathrooms on Bottom, Apartment on Top, built 1990's
- Misc Roadways & Driveways & other Impervious Cover, built 1990's (Shown in Purple & Blue on Impervious Cover Exhibit located in Section 3)

Proposed (2011)

The proposed improvements are minor in nature and will include the construction of a new septic tank and utility tie-in lines for the existing buildings on the property. An aerobic spray irrigation system will also be provided onsite. The project scope does not

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

include the addition of any stormwater drainage infrastructure to the site. The project includes the addition of less than 1/2% (0.06%) impervious cover to the gross area of the site and impact on drainage for the proposed conditions can be assumed negligible. There will be no directed point discharges found onsite or offsite due to this project.

 Proposed OSSF planned to be installed 2011 (Shown in Orange on Impervious Cover Exhibit located in Section 3)

This WPAP has been prepared for the site based on the regulated activity that has occurred and will occur over the Edwards Aquifer Recharge Zone in accordance with the Edwards Aquifer Protection Program Rules as specified in Title 30 of the Texas Administrative Code, Section 213 (30 TAC 213, effective June 1, 1999). Because the improvements installed after 1984 to the present created only 10.57% impervious cover and the proposed OSSF improvements will consist of minor construction and an addition of less than 1/2% (0.06%) impervious cover to the gross area of the site, the owner is requesting a waiver of the requirement for permanent BMPs. The OSSF project is to begin as soon as the proper permits are acquired and is planned to be completed within 2 months (after site plan approval).

Water Pollution Abatement Plan Application

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

REGULATED ENTITY NAME: _____ Franklin D. Houser_____

REGULATED ENTITY INFORMATION

1.	The type of project is: Residential: # of Lots: Residential: # of Living Unit Equivalents: X Commercial Industrial Other:	
2.	Total site acreage (size of property):	18.44 ac

3. Projected population: <u>0 - 20 people</u>

4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	*26,077 ft ²	÷ 43,560 =	0.60 acres
Parking	55,896 ft ²	÷ 43,560 =	1.28 acres
Other paved surfaces	22,057 ft ²	÷ 43,560 =	0.51 acres
Total Impervious Cover	104,030 ft ²	÷ 43,560 =	2.39 acres
Total Impervious Cover ÷ Total Acreage x 100 =			12.95%

* Includes residential structure and residential structure driveway, wine tasting building, and winery building installed prior to 1984.

- 5. <u>X</u> ATTACHMENT A Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. X 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:

Dry Comal Creek Vineyards Inc. Water Pollution Abatement Plan

The proposed improvements include the replacement of a septic tank, which is installed underground.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
5	Residence Structure & Driveway	9,389	0.22	1950's
	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	77,453	1.78	1990's
	Total Impervious Cover	104,030	2.39	

Total Site	18.44
Total Impervious Cover	12.95%
Before 1984	2.32%
1984 to Present	10.57%
Proposed	0.06%
	12.95%

The construction of these improvements from 1984 to the present and including the proposed OSSF improvements scheduled for 2011 will add approximately 85,381 square feet (1.96 acres) of impervious cover to the 18.44 acre site. Currently, the site contains existing buildings, existing driveways and existing miscellaneous impervious covers which make up approximately 18,649 square feet (0.43 acres) of impervious cover. The addition of the proposed OSSF will add 500 square feet (0.01 acres). Therefore, the addition of the proposed impervious cover amounts to less than 20% of the gross site area and can be assumed negligible. The offsite areas that contribute to the site and affect onsite drainage were considered as undeveloped sparsely wooded land.

ATTACHMENT "A" 20% of Less Impervious Cover Waiver

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.

Building	Description	Impervious	Impervious	Year
		Cover Area (sf)	Cover Area (ac)	Built
1	Storage & Office Space	4,034	0.09	2000's
2	Winery	3,886	0.09	1970's
3	Bathrooms on Bottom, Apartment on Top	3,394	0.08	1990's
4	Wine Tasting Building	5,374	0.12	1970's
	Residence Structure & Driveway	9,389	0.22	1950's
	Proposed OSSF Improvements	500	0.01	2011
	Driveways, Parking, Roads, Rock Wall, Misc	77,453	1.78	1990's
	Total Impervious Cover	104,030	2.39	

Total Site	18.44
Total Impervious Cover	12.95%
Before 1984	2.32%
1984 to Present	10.57%
Proposed	0.06%
	12.95%

* Dry Comal Creek Vineyards Inc. is requesting a waiver of the requirement for permanent BMPs to be used at this site.

ATTACHMENT "B" BMP's for Upgradient Stormwater

Up gradient stormwater currently sheet flows over land through the site from a high point located to the northwest of the site on the property across Herbelin Rd. The flow is over natural soil conditions and has no obstructions preventing its natural path. Currently, the existing site that includes buildings, driveways, and miscellaneous concrete is not impacted by the sheet flow upgradient. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "C" BMP's for On-Site Stormwater

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since site improvements from 1984 to the present including the proposed OSSF improvements increased impervious cover from 2.32% to 10.63%, 4.65 CFS Q100 of additional stormwater runoff, and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

ATTACHMENT "D" BMP's for Surface Streams

On-site stormwater currently sheet flows over land through the site from northwest towards the southeast. The flow is over mostly undisturbed, natural surfaces with no obstructions or detention facilities blocking the flow patterns. The existing structures do not impede or direct flow in any way. Since the project includes the addition of no impervious cover and minimal soil disturbance, no permanent BMPs will need to be installed with this project.

The natural vegetation located downgradient of proposed improvements will provide additional filtration to help prevent pollution from entering streams, sensitive features and the aquifer. According to the Geologic Assessment, all sensitive features within the identified boundary are located upstream of the project site and should not be impacted by this work.

Please refer to the Drainage Area Map in the Temporary Stormwater Section.

commencement of the regulated activity. Information must include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, and the name of the prime contractor and the name and telephone number of the contact person.

these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.

methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.

industrial, irrigation, or public water supply well, or other sensitive feature.

permanently stabilized.

features by the next rain)

by 50%. A permanent stake must be provided that can indicate when the sediment occupies 50% of the basin volume.

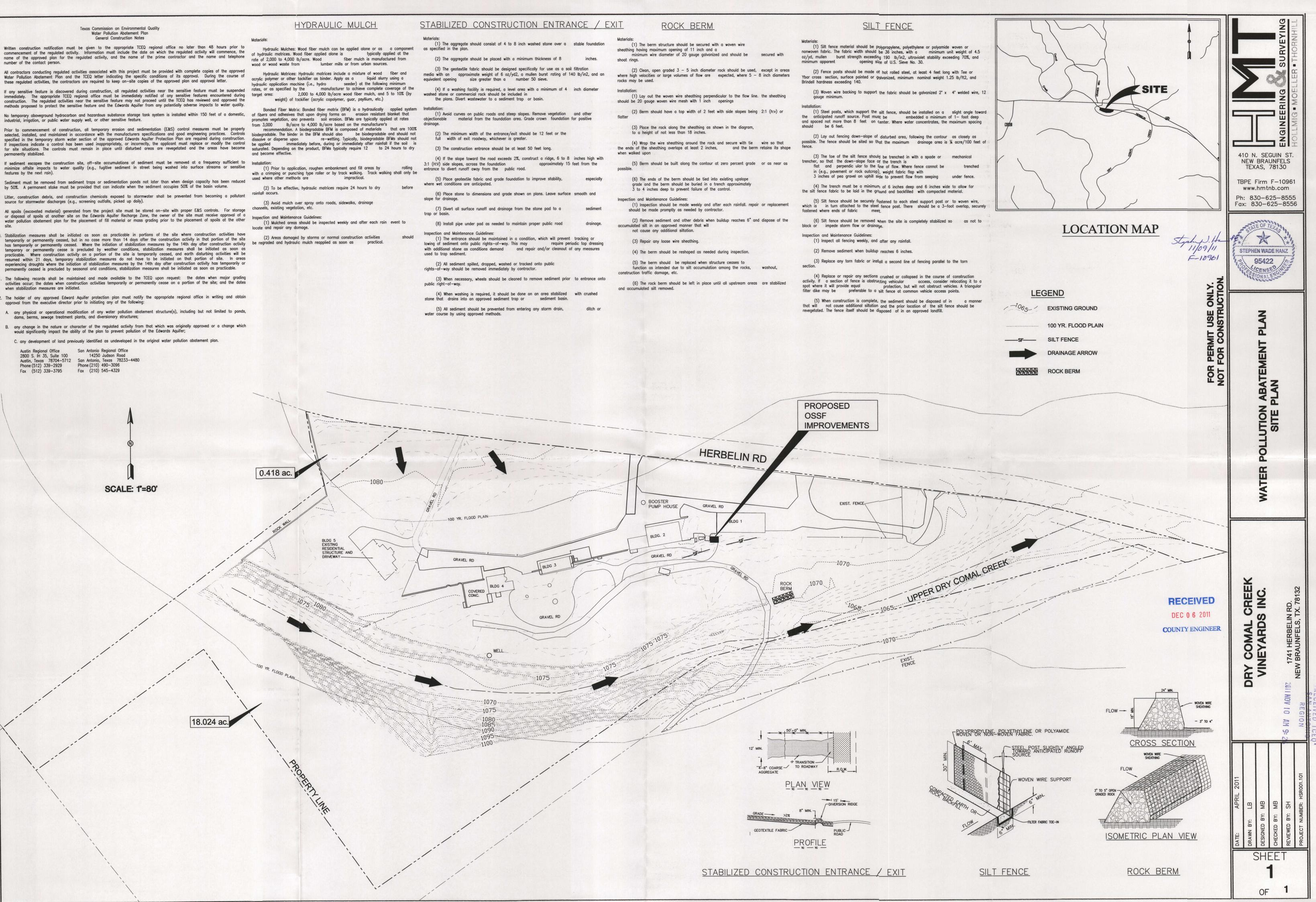
practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

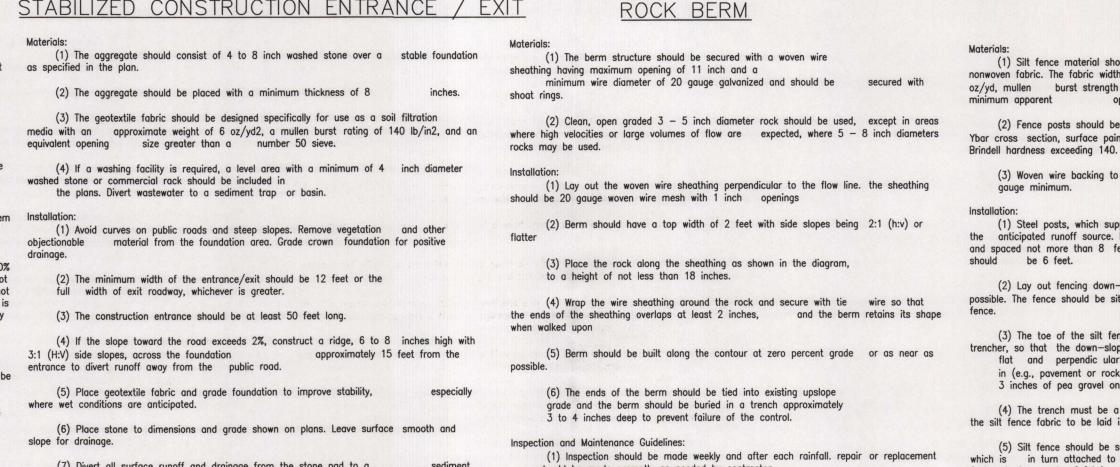
activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.

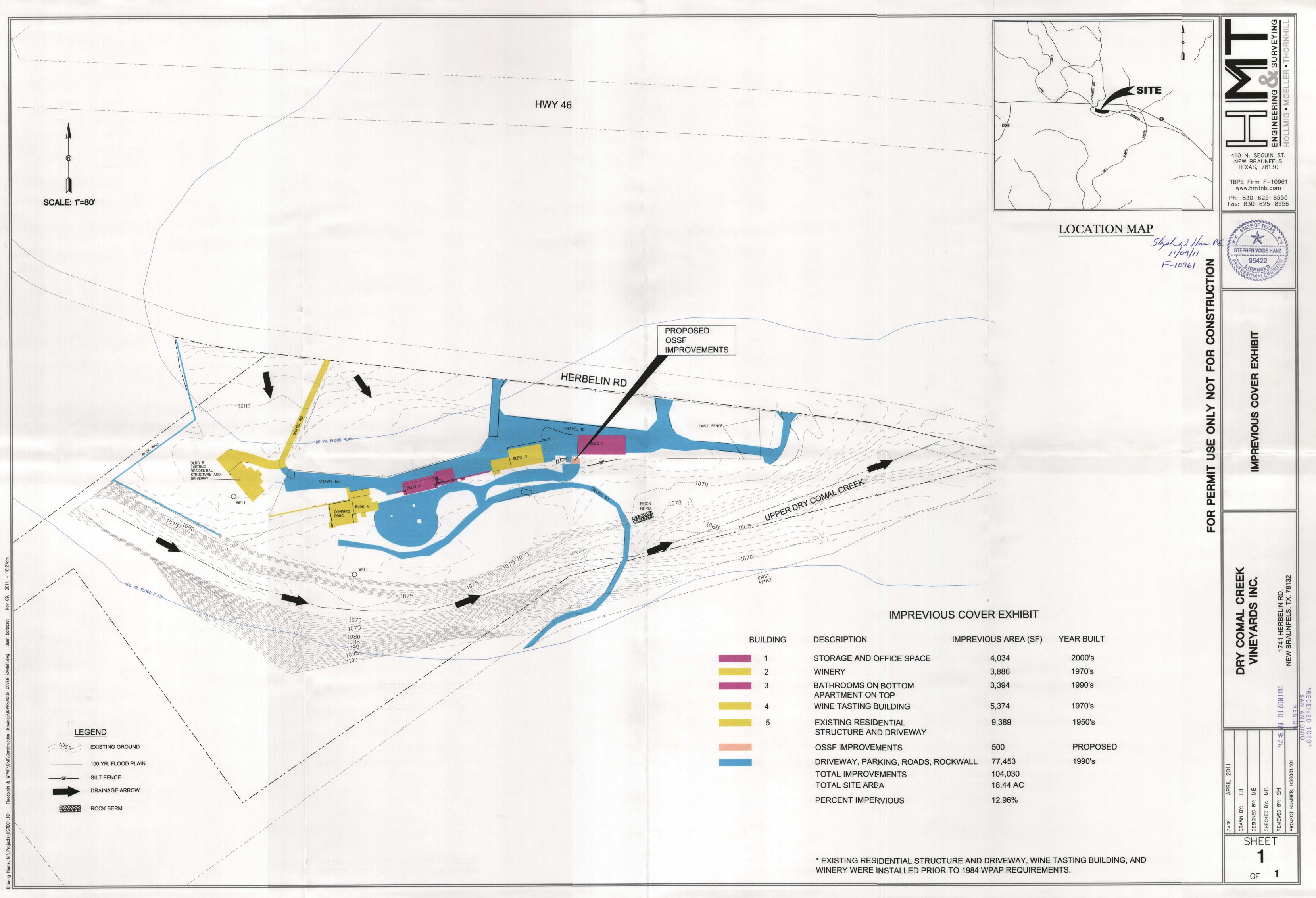
approval from the executive director prior to initiating any of the following:

dams, berms, sewage treatment plants, and diversionary structures;

would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;







Buddy Garcia, Chairman Larry R. Soward, Commissioner Bryan W. Shaw, Ph.D., Commissioner Mark R. Vickery, P.G., Executive Director



RECEIVED AUG 0 8 2008 COUNTY ENGINEER

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 6, 2008

Mr. Thomas H. Hornseth, P.E. Comal County Engineer 195 David Jonas Drive New Braunfels TX 78132-3710

 Re: Edwards Aquifer, Comal County PROJECT NAME: Dry Comal Creek Flood Retarding Structure, located on the north side of IH 35 and FM 482 approximately 1.5 miles northwest of the intersection of Krueger and FM 482, New Braunfels, Comal County Texas PLAN TYPE: Application for Approval of a Water Pollution Abatement Plan (WPAP) 30 Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program EAPP File No.: 2824.00

Dear Mr. Hornseth:

The enclosed WPAP application received on August 1, 2008, is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Commission on Environmental Quality (TCEQ) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TCEQ approval.

Please forward your comments to this office by September 1, 2008.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact the San Antonio Region Office at (210) 490-3096.

Sincerely

Lynn M. Bumguardner Water Section Work Leader San Antonio Regional Office

LMB/eg

REPLY TO: REGION 13 • 14250 JUDSON RD. • SAN ANTONIO, TEXAS 78233-4480 • 210-490-3096 • FAX 210-545-4329



Comal County office of comal county engineer

July 21, 2009

Ms. Charlyne Fritz Texas Commission on Environmental Quality 14250 Judson Road San Antonio, TX 78233-4480

> Re: Edwards Aquifer Protection Program ID No. 2824.00; Investigation No. 689237; Regulated Entity No. RN105595078

Dear Ms. Fritz:

In accordance with Standard Condition Number 4 of the referenced investigation, please find attached the proof of recordation of the notice in the Comal County deed records.

If you have any questions or need additional information please contact our office.

Sincerely,

Robert Boyd, P.É. Comal County Assistant Engineer



0906025487 07/21/2009 01:10:13 PM 1/7

Deed Recordation Affidavit

Edwards Aquifer Protection Plan

THE STATE OF TEXAS §

County of <u>Comal</u> §

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

- (1) That my name is <u>Judge Danny Scheel</u> and that I own the easement described below.
- (2) That said easement is subject to an EDWARDS AQUIFER PROTECTION PLAN which was required under the 30 Texas Administrative Code (TAC) Chapter 213.
- (3) That the EDWARDS AQUIFER PROTECTION PLAN for said easement was approved by the Texas Commission on Environmental Quality (TCEQ) on <u>September 29, 2008.</u>

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

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

Tract	6.530 Acres out of Francisco Rodriguez Survey No. 99, Abstract No. 484
Recording Information	DOC# 200906002173, Dated 01/16/2009

EASÉMENTIOWNE

SWORN AND SUBSCRIBED TO before me, on this 21 day of ______, 2009.

THE STATE OF TENAS S County of

BEFORE ME, the undersigned authority, on this day personally appeared <u>Judge Danny Scheel</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 21 day of _______ 200.9

CRYSTAL L. GOTTFRIED Notary Public State of Texas My Comm. Exp. 11-15-2011 Name of Notary

MY COMMISSION EXPIRES: 11-15 2011

Buddy Garcia, Chairman Larry R. Soward, Commissioner Bryan W. Shaw, Ph.D., Commissioner Mark R. Vickery, P.G., Executive Director



RECEIVED SEP 3 0 2008 COUNTY ENGINEER

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 29, 2008

The Honorable Danny Scheel County Judge County Courthouse 195 David Jones Dr. New Braunfels, TX 78132-3760

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: Dry Comal Creek Flood Retarding Structure; Located approximately 1.5 miles northwest of the intersection of Krueger Rd. and FM 482; New Braunfels ETJ, Texas TYPE OF PLAN: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program ID No. 2824.00; Investigation No. 689237; Regulated Entity No. RN105595078

Dear Judge Scheel:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the above-referenced project submitted to the San Antonio Regional Office by CH2MHill on your behalf on August 1, 2008. Final review of the WPAP was completed after additional material was received on September 15, 2008. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

PROJECT DESCRIPTION

The proposed project will have an area of approximately 21.40 acres and will include a concrete flood retarding structure across Dry Comal Creek and construction related staging areas and access roads. The impervious cover will be 1.75 acres (8.18 percent) and will include the structure's footprint and stilling basin. The staging areas will have vegetation cleared and the material shredded and placed as ground cover. The haul roads will be widened to forty feet and improved with gravel. The gravel will be removed upon completion of construction. No wastewater will be generated by this project.

Reply To: Region 13 • 14250 Judson Rd. • San Antonio, Texas 78233-4480 • 210-490-3096 • Fax 210-545-4329

P.O. Box 13087
Austin, Texas 78711-3087
S12-239-1000
Internet address: www.tceq.state.tx.us

RECEIVED

P.03

SEP 3 0 2008

COUNTY ENGINEER

PERMANENT POLLUTION ABATEMENT MEASURES

An exception to the requirement for permanent BMPs was requested in the application due to the nature of the activity and minimal amount of total suspended solids (TSS) generated.

EXCEPTION JUSTIFICATION

The justification for the exception request stated equivalent water quality protection will be achieved because:

- 1. The project is not a typical commercial or industrial project. A minimal amount of TSS will be generated from the 1.75 acres of impervious cover related to the dam structure. Vehicular traffic will be limited to maintenance vehicles conducting inspections of the structure.
- 2. The structure itself will act as a settling pond for the first flush of contaminants upstream of the site.
- 3. The two hundred foot upstream natural buffer area for sensitive features will be preserved.
- 4. The impounded water upstream of the structure could provide recharge for the Edwards Aquifer through sensitive feature S-3
- 5. The conservation easement, which follows the creek downstream of the structure, requires all land in the easement to remain in natural conditions up to the transition zone boundary.

GEOLOGY

According to the geologic assessment included with the application, the site is located within the Lower Cretaceous and Quaternary alluvium formations. The project geologist evaluated eighteen geologic features and two mammade features (water wells). Five of the geologic features were scored as sensitive by the project geologist and are discussed in the paragraph below. The San Antonio Regional Office site assessment conducted on September 10, 2008 revealed the site as described by the geologic assessment.

SENSITIVE FEATURE

Natural buffers were proposed for five natural sensitive features (2 solution cavities, 1 sinkhole, and 2 zones of solution fractures). Construction related regulated activities will occur within the natural buffer areas, however, no permanent structures or impervious cover will impede on the natural buffer areas upon the completion of construction. Rock berms will be situated to act as sediment controls for protection of the features and as a physical barrier to signal the limits of construction.

Each feature will have regulated activities (widening of the access road and placement of gravel) occur in a portion of the natural buffer area during construction. The access roads generally follow existing ranch roads at the site. One feature, S-3, will be temporarily scaled due to its location in the inundation area upstream of the structure. A modified rock berm, consisting of rock fill and filter fabric will be placed in the feature to prevent sediment, and construction debris from entering the feature in times of high water.

SPECIAL CONDITIONS

L

Due to the uniqueness of the project and the limited TSS generated, the exception to the requirement from permanent BMPs is approved.

Π.

Removal of the gravel from the access roads is required upon the completion of construction. Final stabilization of the soil is required after the gravel is removed.

SEP 3 0 2008

COUNTY ENGINEER

The Honorable Danny Scheel September 29, 2008 Page 3

M.

1.

Sensitive feature S-3 shall be temporarily sealed with rock fill and filter fabric while construction activities are occurring. Upon the completion of construction, provide documentation (photographs) that the feature has been restored to its original condition.

STANDARD CONDITIONS

- Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
- 2. The holder of the approved Edwards Aquifer Protection Plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, PST) can be required depending on the specifics of the plan.
- 3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

- 4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is

SEP 3 0.2008

COUNTY ENGINEER

proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

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

11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.

- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. Two wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

P. 05 RECEIVED

RECEIVED

SEP 3 0 2008

- The following records shall be maintained and made available to the executive director upon 16. request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEO-10263) is enclosed.
- Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the 20. approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- An Edwards Aquifer protection plan approval or extension will expire and no extension will be 21. granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
- At project locations where construction is initiated and abandoned, or not completed, the site shall 22. be returned to a condition such that the aquifer is protected from potential contamination.

If you have any questions or require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

Sincerely,

Mark R. Vickery, P.G. Executive Director Texas Commission on Environmental Quality

MRV/CEF/eg

Enclosure:

CC:

: Deed Recordation Affidavit, Form TCEQ-0625

Ms. Judith Ibarra-Biancheta, P.E., C.F.M., CH2MHILL Mr. Bruce Boyer, City of New Braunfels Mr. Tom Hornseth, Comal County Ms. Velma Danielson, Edwards Aquifer Authority TCEQ Central Records, Building F, MC212

> Filed and Recorded Official Public Records Joy Streater, County Clerk Comal County, Texas 07/21/2009 01:10:13 PM CASHTWO 200906025487

Joy Streater

After Recording Return To: Holcim (US) Inc. 6211 North Ann Arbor Road Dundee, MI 48131 Attn: Real Estate Department



200906002173 01/16/2009 02:13:56 PM EASEMENT 1/7

FLOODWATER RETENTION STRUCTURE SITE EASEMENT AMENDMENT No. 2

ŝ

§

STATE OF TEXAS

COUNTY OF COMAL

KNOW ALL PERSONS BY THESE PRESENTS:

This FLOODWATER RETENTION STRUCTURE SITE EASEMENT AMENDMENT No. 2 (this "Second Amendment") is made and entered into effective as of the Effective Date given below, by HOLCIM (US) INC., a Delaware corporation ("Grantor") and COMAL COUNTY, a political subdivision of the State of Texas ("Grantee").

WHEREAS, Grantor, by that certain Floodwater Retention Structure Site Easement dated effective as of February 11, 2008 and recorded on April 9, 2008 as Document No. 200806013862 in the Real Property Records of Comal County, Texas (the "FRS Site Easement"), granted to Grantee a permanent, non-exclusive easement upon, across and beneath 6.054 acres of real property owned by Grantor and located in Comal County, Texas; and

WHEREAS, the parties amended the FRS Site Easement by that certain Floodwater Retention Structure Site Easement Amendment dated effective as of November 20, 2008 and recorded on December 9, 2008 as Document No. 200806044302 in the Real Property Records of Comal County, Texas (the "FRS Site Easement Amendment"), intending to relocate the FRS Site to that certain 6.530 acres of real property owned by Grantor and located in Comal County, Texas, being more particularly described in <u>Exhibit A</u> attached hereto and incorporated herein for all purposes (the "New Site"); and

WHEREAS, an incorrect legal description of the New Site was attached to the FRS Site Easement Amendment and the parties desire to further amend the FRS Site Easement by correcting the description of the New Site.

NOW, THEREFORE, in consideration of the premises, the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration in hand paid, and in consideration of the mutual agreements herein made, the receipt and sufficiency of which are hereby acknowledged, Grantor and Grantee hereby agree as follows:

1. The legal description of the New Site, as provided in Exhibit A of the FRS Site Easement Amendment, is deleted in its entirety and replaced with the New Site description at Exhibit A of this Second Amendment.

2. Except as herein modified or amended, the provisions, conditions and terms of the FRS Site Easement and FRS Site Easement Amendment shall remain unchanged and in full force and effect.

55338437.1

EFFECTIVE as of the date of the latest acknowledgment below ("Effective Date").

GRANTOR:

HOLCIM (US) INC., a Delaware corporation

addam

James M. Addams Senior Vice President

THE STATE OF TEXAS COUNTY OF

This instrument was acknowledged before me on the 12 day of 360, 200 by James M. Addams, the Senior Vice President of HOLCIM (US) INC., a Delaware corporation, on behalf of said corporation.

5000

(SEAL)

Donna L White My Commission Expires 11/28/2009

0

Notary Public in and for the State of Texas

My Commission Expires:____

[Grantee's Signature and Acknowledgment On Next Page]

GRANTEE:

COMAL COUNTY, political subdivision of the State of Texas

Danny Scheel, County Judge

Approved by the County Attorney:

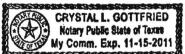
Jennifer Tharp Chief Givil Prosecutor THE STATE OF TEXAS

COUNTY OF COMAL

This instrument was acknowledged before me on the 30^{th} day of <u>December</u>, 20<u>08</u>, by Danny Scheel, the County Judge of Comal County, a political subdivision of the State of Texas, on behalf of said county.

\$ \$ \$

(SEAL)



Notary Public in and for the State of Texas

My Commission Expires: 11-15-2011

55338437.1

S-2

EXHIBIT A

FRS Site Description

(See attached Legal Description of Permanent Dam Easement on 6.530 acres of land prepared by the Schultz Group, Inc.)



P.O. BOX 310483 • NEW BRAUNFELS, TX 78131-0483 • Phone: (830) 606-3913 • Fax: (830) 625-2204

LEGAL DESCRIPTION OF

Permanent Dam Easement

6.530 acres of land out of the Francisco Rodriguez Survey No. 99, Abstract No. 484, Comal County, Texas, and being out of and a part of a 305.412 acre tract as conveyed by WARRANTY DEED WITH VENDOR'S LIEN from MILTON F. SCHMIDT, et ux to IDEAL BASIC INDUSTRIES, INC. and executed on September 8, 1982 and recorded in Volume 333, Pages 349-355 of the Deed Records of Comal County, Texas, said 6.530 acres of land being more particularly described as follows:

- COMMENCING: at a set ½" iron pin with plastic cap in the Northwest Right of Way Line of the Union Pacific Railroad (old Missouri Pacific Railroad) and being the Southernmost corner of a 305.412 acre tract as conveyed by WARRANTY DEED WITH VENDOR'S LIEN from MILTON F. SCHMIDT, et ux to IDEAL BASIC INDUSTRIES, INC. and executed on September 8, 1982 and recorded in Volume 333, Pages 349-355 of the Deed Records of Comal County, Texas, and also being the Easternmost corner of a 287.386 acre tract (designated as TRACT 1), conveyed by Warranty Deed with Vendor's Lien from Archie Schmidt, et ux, to Ideal Basic Industries, Inc., and executed on September 8, 1982 and recorded in Volume 333, Pages 381-388 of the Deed Records of Comal County, Texas;
- THENCE: North 30 deg. 17' 12" West, (all bearings in this description are based on Grid North of the Texas Coordinate System (NAD 83 (93), Zone 4204), a distance of 1241.96 feet and North 59 deg. 42' 48" East, a distance of 411.67 feet from a set ½" iron pin with plastic cap being the Southwest corner of this easement and the **POINT OF BEGINNING**;

THENCE: the following courses along the West line of this casement:

(1) North 06 deg. 14' 04" West, a distance of 119.73 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(2) North 83 deg. 57' 44" East, a distance of 418.38 feet to a set 1/2" iron pin with plastic cap stamped "4233";



(3) North 04 deg. 58' 55" West, a distance of 806.17 feet to a set 1/2" iron pin with plastic cap stamped "4233"; and

(4) North 15 deg. 03' 42" East, a distance of 311.75 feet to a set ¹/₂" iron pin with plastic cap stamped "4233" and being the Northwest corner of this easement;

THENCE: (5) South 75 deg. 02' 16" East, a distance of 120.09 feet along the North line of this easement to a set ½" iron pin with plastic cap being the Northeast corner of this easement;

THENCE: the following courses along the East line of this easement:

(6) South 15 deg. 08' 03" West, a distance of 291.14 feet to a 60d nail;

(7) South 05 deg. 11' 40" East, a distance of 55.24 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(8) South 08 deg. 53' 11" East, a distance of 310.78 feet to a set ¹/₂" iron pin with plastic cap stamped "4233";

(9) South 13 deg. 04' 10" East, a distance of 57.50 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(10) North 84 deg. 24' 46" East, a distance of 92.45 feet to a set mag nail in rock;

(11) South 42 deg. 57' 17" East, a distance of 198.15 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(12) South 04 deg. 55' 38" East, a distance of 58.22 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(13) South 63 deg. 51' 11" West, a distance of 183.84 feet to a set cotton spindle;

(14) South 85 deg. 54' 52" West, a distance of 28.08 feet to a set cotton spindle;

(15) South 21 deg. 48' 05" West, a distance of 96.95 feet to a set cotton spindle;

(16) South 07 deg. 07' 30" East, a distance of 16.13 feet to a set cotton spindle;

(17) North 52 deg. 35' 41" East, a distance of 85.62 feet to a set mag nail;

(18) North 75 deg. 49' 59" East, a distance of 106.25 feet to a set cotton spindle; and

(19) South 00 deg. 00' 00" East, a distance of 122.02 feet to a set cotton spindle being the Southeast corner of this easement;

THENCE: the following courses along the South line of this easement:

(20) South 73 deg. 42' 21"West, a distance of 67.73 feet to a set cotton spindle;

(21) South 27 deg. 08' 07" West, a distance of 89.91 feet to a set '2" iron pin with plastic cap stamped "4233";

(22) South 83 deg. 43' 44" West, a distance of 91.56 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(23) North 65 deg. 55' 28"West, a distance of 102.97 feet to a set 1/2" iron pin with plastic cap stamped "4233"; and

(23) South 83 deg. 56' 22" West, a distance of 407.34 feet to a set ½" iron pin with plastic cap being the POINT OF BEGINNING, and containing 6.530 acres of land.

THIS LEGAL DESCRIPTION WAS WRITTEN IN CONJUNCTION WITH A SURVEY PLAT PREPARED IN THIS OFFICE ON 09/23/08, JOB NO. 10-11-2004.



Stephen E. Schultz, R.P.L.S. Registration No. 4233

> Filed and Recorded Official Public Records Joy Streater, County Clerk Comal County, Texas 01/16/2009 02:13:56 PM CASHONE 200906002173



3

Jay Streater

F:\101104\2008 Update survey\6.530 acres.doc



P.O. BOX 310483 • NEW BRAUNFELS, TX 78131-0483 • Phone: (830) 606-3913 • Fax: (830) 625-2204

LEGAL DESCRIPTION OF

Permanent Dam Easement

6.530 acres of land out of the Francisco Rodriguez Survey No. 99, Abstract No. 484, Comal County, Texas, and being out of and a part of a 305.412 acre tract as conveyed by WARRANTY DEED WITH VENDOR'S LIEN from MILTON F. SCHMIDT, et ux to IDEAL BASIC INDUSTRIES, INC. and executed on September 8, 1982 and recorded in Volume 333, Pages 349-355 of the Deed Records of Comal County, Texas, said 6.530 acres of land being more particularly described as follows:

- **COMMENCING:** at a set ½" iron pin with plastic cap in the Northwest Right of Way Line of the Union Pacific Railroad (old Missouri Pacific Railroad) and being the Southernmost corner of a 305.412 acre tract as conveyed by WARRANTY DEED WITH VENDOR'S LIEN from MILTON F. SCHMIDT, et ux to IDEAL BASIC INDUSTRIES, INC. and executed on September 8, 1982 and recorded in Volume 333, Pages 349-355 of the Deed Records of Comal County, Texas, and also being the Easternmost corner of a 287.386 acre tract (designated as TRACT 1), conveyed by Warranty Deed with Vendor's Lien from Archie Schmidt, et ux, to Ideal Basic Industries, Inc., and executed on September 8, 1982 and recorded in Volume 333, Pages 381-388 of the Deed Records of Comal County, Texas;
- THENCE: North 30 deg. 17' 12" West, (all bearings in this description are based on Grid North of the Texas Coordinate System (NAD 83 (93), Zone 4204), a distance of 1241.96 feet and North 59 deg. 42' 48" East, a distance of 411.67 feet from a set ½" iron pin with plastic cap being the Southwest corner of this easement and the **POINT OF BEGINNING**;

THENCE: the following courses along the West line of this easement:

(1) North 06 deg. 14' 04" West, a distance of 119.73 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(2) North 83 deg. 57' 44" East, a distance of 418.38 feet to a set 1/2" iron pin with plastic cap stamped "4233";



(3) North 04 deg. 58' 55" West, a distance of 806.17 feet to a set 1/2" iron pin with plastic cap stamped "4233"; and

(4) North 15 deg. 03' 42" East, a distance of 311.75 feet to a set $\frac{1}{2}$ " iron pin with plastic cap stamped "4233" and being the Northwest corner of this easement;

THENCE: (5) South 75 deg. 02' 16" East, a distance of 120.09 feet along the North line of this easement to a set ½" iron pin with plastic cap being the Northeast corner of this easement;

THENCE: the following courses along the East line of this easement:

(6) South 15 deg. 08' 03" West, a distance of 291.14 feet to a 60d nail;

(7) South 05 deg. 11' 40" East, a distance of 55.24 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(8) South 08 deg. 53' 11" East, a distance of 310.78 feet to a set ½" iron pin with plastic cap stamped "4233";

(9) South 13 deg. 04' 10" East, a distance of 57.50 feet to a set $\frac{1}{2}$ " iron pin with plastic cap stamped "4233";

(10) North 84 deg. 24' 46" East, a distance of 92.45 feet to a set mag nail in rock;

(11) South 42 deg. 57' 17" East, a distance of 198.15 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(12) South 04 deg. 55' 38" East, a distance of 58.22 feet to a set ¹/₂" iron pin with plastic cap stamped "4233";

(13) South 63 deg. 51' 11" West, a distance of 183.84 feet to a set cotton spindle;

(14) South 85 deg. 54' 52" West, a distance of 28.08 feet to a set cotton spindle;

(15) South 21 deg. 48' 05" West, a distance of 96.95 feet to a set cotton spindle;

(16) South 07 deg. 07' 30" East, a distance of 16.13 feet to a set cotton spindle;



CH2M HILL 9311 San Pedro Ave., St. 800 San Antonio, TX 78216 Tel 210.377.3081 Fax 210.349.8944

15 September 2008

Ms. Charlyne Fritz TCEQ R-13 14250 Judson Rd. San Antonio, TX 78233-4480

Dear Ms. Fritz:

Subject: Revisions for Dry Comal Creek Flood Retarding Structure

CH2M HILL is pleased to submit five (5) copies of page inserts to our recently submitted WPAP application. The included pages reflect changes as requested by TCEQ. Per your request, one (1) original and four (4) copies of the following page inserts are included:

1. Site Plan- addition of buffer areas to the sensitive features, geotechnical boring locations

2. Detail of Modified High Service Rock Berm

3. Revision to details stated to the construction entrance/exit as stated in the Attachment J in the Temporary Stormwater Section

h Wa SI 435 0002

"RECEIVED TCI

4. Update of Attachment A in the Exception request Form

Please call if you have any questions.

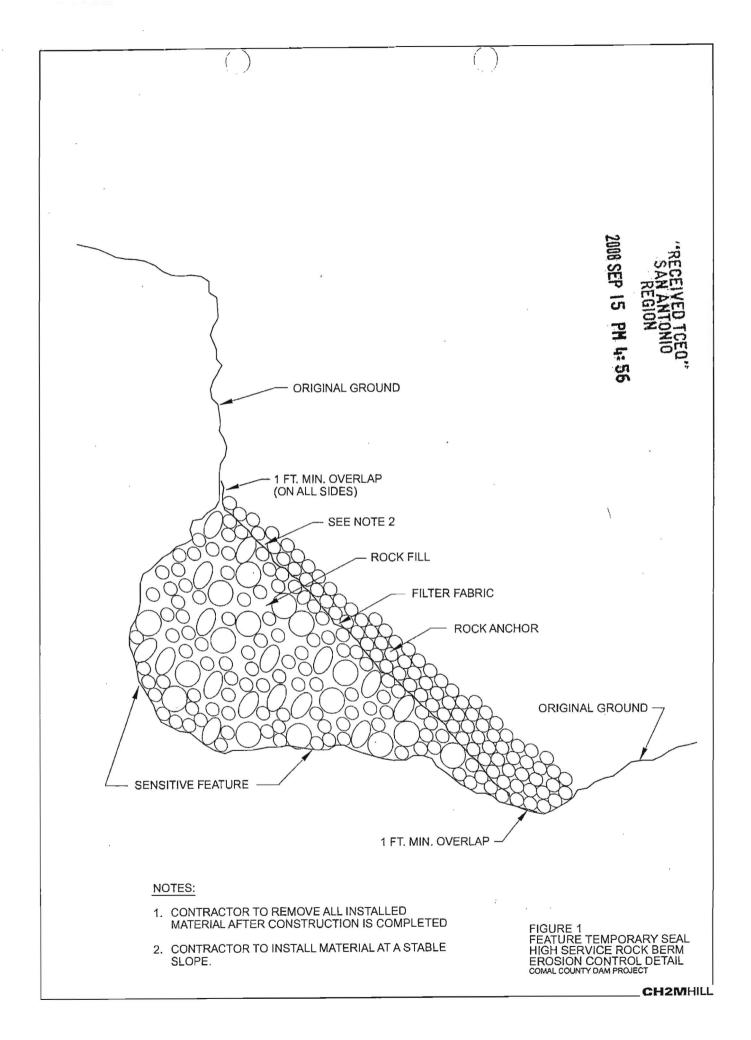
Sincerely,

CH2M HILL

1/11112 - Biannilla

Judith Ibarra-Bianchetta, PE, CFM Associate Project Manager

Attachments: Five (5) copies of each of the five (5) sheets listed above



EAPP - WATER POLLUTION ABATEMENT PLAN (WPAP) TEMPORARY STORMWATER SECTION

COMAL COUNTY FLOOD CONTROL STRUCTURE CCEO – COMAL COUNTY ENGINEER'S OFFICE

ATTACHMENT J - Schedule of Interim and Permanent Soil Stabilization Practices

The following measures will be utilized to ensure soil stabilization prior to, during, and after soil stabilization at the proposed Dry Comal dam site:

Activity	Area	Description
Mulching	4 – 10 ac	Following the geologic assessment, the dam footprint will be cleared of vegetation and any trees will be mulched on-site.
Road Preparation	2.6 ac	Ranch access roads will be improved and leveled using several inches of ³ /4-inch to 3-inch diameter crushed limestone.
Construction 30' X 50' Entrance		A 30' X 50' construction entrance will be installed at the interface between paved county roads and the site's improved ranch road access. The Construction Entrance will be constructed from 3-inch to 6-inch crushed limestone.
Silt Fencing / Rock Berms	per plan	Temporary sediment controls be installed following road improvement and prior to excavation of the dam site.
Natural Vegetation	100 ANI ANI	Outside of the dam footprint, native grasses, forbs, shrubs, and trees will be maintained to the maximum extent practiceable.
BMP Removal	per plan	Subsequent to dam completion, silt fences, rock berms, and construction entrance will be removed. BMPs remnants will be transported and appropriately disposed of off-site. All BMP locations will be restored to original condition and stabilized with mulch if necessary.
Record Keeping		Major grading activities, dates of construction starts and stops, and schedules of stabilization measures will be maintained at the construction field office.

Table J.1 – Soil Stabilization Sequence

This flood retarding structure does not meet the definition of a typical project associated with WPAP regulations. According to the rule citation 213.5(b)(4)(D)(ii)(I), "BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction. These practices and measures must be designed, constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids from the site caused by the regulated activity is removed. These quantities must be calculated in accordance with technical guidance prepared or accepted by the executive director." An exception is requested from this requirement for this structure.

The proposed flood retarding structure, which will be constructed of concrete, provides a permanent impervious surface, causing an increase of 8.18% compared to existing ground cover conditions. Also, the gravel roads that will be installed during construction will be removed from the site, following construction. After construction, the roads will be of natural ground cover with infrequent maintenance traffic on the roadways. The amount of pollutants that will be exposed to the impervious surface and thereby contributing to possible contamination of water will also be limited due to occasional maintenance vehicle traffic on top of the structure. However, this will be minimal and will not cause TSS contamination to the surface water. In addition, the location of the structure is in close proximity to the Edwards Aquifer Transition Zone (approximately 1,500 feet downstream) and will have a reduced impact to the recharge zone.

Attachment B

The project will provide many benefits that provide water quality protection. First, the structure will act as a sedimentation basin for the first flush of contaminants upstream of the site. Draining times for the structure vary from 4.5 hours for the 2 year event to 18.8 hours for the 100 year event and will provide time for containments or sediments to settle out of the surface water. Second, there will be the minimum 150' buffer between the identified sensitive features for the site and the permanent dam footprint, allowing for existing landcover conditions to help filter out any possible contamination. Thirdly, the impounded water behind the structure will provide more recharge water to the aquifer through the sensitive feature. Lastly, the conservation easement downstream of the structure will require any land between the structure and the transition zone to be untouched and therefore, this will contribute to improved water quality for the recharge zone. For all these reasons, the proposed structure provides equivalent water quality protection.

(17) North 52 deg. 35' 41" East, a distance of 85.62 feet to a set mag nail;

(18) North 75 deg. 49' 59" East, a distance of 106.25 feet to a set cotton spindle; and

(19) South 00 deg. 00' 00" East, a distance of 122.02 feet to a set cotton spindle being the Southeast corner of this easement;

THENCE: the following courses along the South line of this easement:

(20) South 73 deg. 42' 21"West, a distance of 67.73 feet to a set cotton spindle;

(21) South 27 deg. 08' 07" West, a distance of 89.91 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(22) South 83 deg. 43' 44" West, a distance of 91.56 feet to a set 1/2" iron pin with plastic cap stamped "4233";

(23) North 65 deg. 55' 28"West, a distance of 102.97 feet to a set 1/2" iron pin with plastic cap stamped "4233"; and

(23) South 83 deg. 56' 22" West, a distance of 407.34 feet to a set $\frac{1}{2}$ " iron pin with plastic cap being the **POINT OF BEGINNING**, and containing 6.530 acres of land.

THIS LEGAL DESCRIPTION WAS WRITTEN IN CONJUNCTION WITH A SURVEY PLAT PREPARED IN THIS OFFICE ON 09/23/08, JOB NO. 10-11-2004.



Schult 9/23/08 Stephen E. Schultz, R.P.L.S.

Registration No. 4233

F:\101104\2008 Update survey\6.530 acres.doc



WATER POLLUTION ABATEMENT PLAN (WPAP)

RECEIVED AUG 0 8 2008 COUNTY ENGINEER

DRY COMAL CREEK FLOOD RETARDING STRUCTURE COMAL COUNTY, TEXAS

Submitted to: TCEQ, Region 13 Office, San Antonio, Texas

August 2008

SAN ANTONIO

•

ŏ

••••

Prepared by:



General Information Form (TCEQ-0587)

.....

•••••••

General Information Form

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

REGULATED ENTITY NAME: Dry Comal Creek Flood Retarding Structure STREAM BASIN: Dry Comal Creek COUNTY: Comal County X RECHARGE ZONE EDWARDS AQUIFER: TRANSITION ZONE X WPAP EXCEPTION PLAN TYPE: AST SCS UST MODIFICATION CUSTOMER INFORMATION 1. Customer (Applicant): Contact Person: Judge Danny Scheel ICEO PAS SAN ANTONIO Entity: Comal County Mailing Address: 195 David Jonas Drive City, State: New Braunfels, Texas Zip: 78132-3760 Telephone: 830.608.2090 FAX: 830.608.2009 Agent/Representative (If any): Contact Person: Judith Ibarra-Bianchetta, PE, CFM CH2MHILL Entity: Mailing Address: 9311 San Pedro Avenue Suite 800 City, State: San Antonio, Texas Zip: 78216 Telephone: 210.377.3081 FAX: 210.349.8944 2. This project is inside the city limits of X This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of New Braunfels. This project is not located within any city's limits or ETJ. 3. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation. The project is located on the North side of IH 35 and FM 482 approximately 1.5 miles Northwest of the intersection of Krueger and FM 482. ATTACHMENT A - ROAD MAP. A road map showing directions to and the location of 4. X the project site is attached at the end of this form.

- 5. <u>X</u> ATTACHMENT B USGS / EDWARDS RECHARGE ZONE MAP. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached behind this sheet. The map(s) should clearly show:
 - X Project site.

- <u>X</u> USGS Quadrangle Name(s).
 <u>X</u> Boundaries of the Recharge Z
 <u>X</u> Drainage path from the projection
- Boundaries of the Recharge Zone (and Transition Zone, if applicable).
- Drainage path from the project to the boundary of the Recharge Zone.
- 6. X 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. The TCEQ must be able to inspect the project site or the application will be returned.
- 7. <u>X</u> **ATTACHMENT C PROJECT DESCRIPTION**. Attached at the end of this form is a detailed narrative description of the proposed project.
- 8. Existing project site conditions are noted below:
 - Existing commercial site
 - ____ Existing industrial site
 - Existing residential site
 - X Existing paved and/or unpaved roads
 - Undeveloped (Cleared)
 - <u>X</u> Undeveloped (Undisturbed/Uncleared)
 - Other:

PROHIBITED ACTIVITIES

- 9. <u>X</u> 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);
 - 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).
- 10. \underline{X} I am aware that the following activities are prohibited on the **Transition Zone** and are not proposed for this project:
 - (1) waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) land disposal of Class I wastes, as defined in 30 TAC §335.1; and
 - (3) new municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

ADMINISTRATIVE INFORMATION

- 11. The fee for the plan(s) is based on:
 - <u>X</u> For a Water Pollution Abatement Plan and Modifications, the total acreage of the site where regulated activities will occur.
 - <u>n/a</u> For an Organized Sewage Collection System Plans and Modifications, the total linear footage of all collection system lines.

- <u>n/a</u> For a UST Facility Plan or an AST Facility Plan, the total number of tanks or piping systems.
- n/a A Contributing Zone Plan.
- <u>n/a</u> A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- <u>n/a</u> A request for an extension to a previously approved plan.
- 12. 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)
 - X San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
- 13. \underline{X} Submit one (1) original and three (3) copies of the completed application to the appropriate regional office for distribution by the TCEQ to the local municipality or county, groundwater conservation districts, and the TCEQ's Central Office.
- 14. \underline{X} 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.
 - X No person shall commence any regulated activity until the Contributing Zone Plan for the activity has been filed with the executive director.

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:

Judith Harra-Blanchetta

Print Name of Customer/Agent

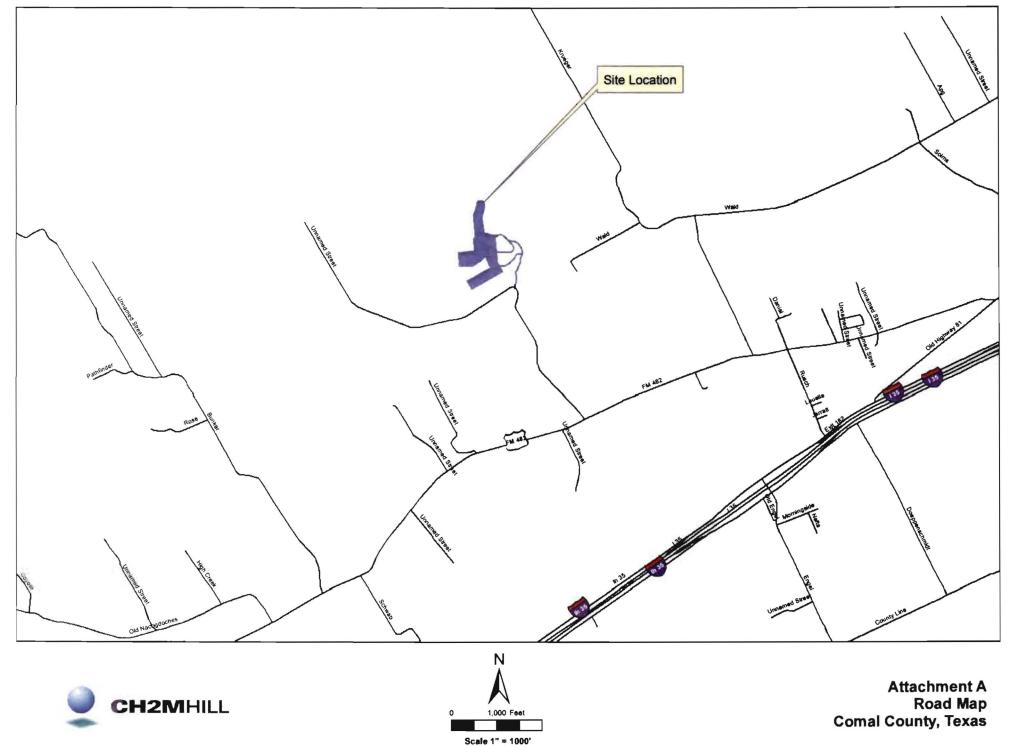
J. Bana - Branchetth

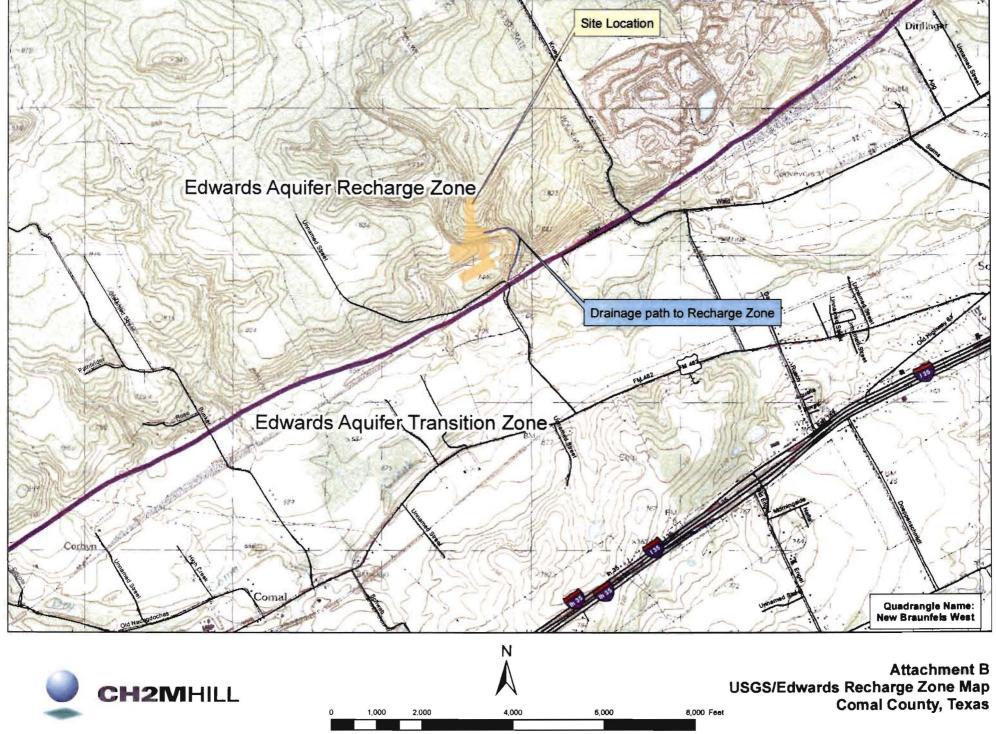
Signature of Customer/Agent

8.1.2008

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.





Attachment C

Project Description

Comal County is proposing development of a flood retarding structure with a total plan area of 1.50 acres along a tributary of the Dry Comal Creek. All of the area of the flood retarding structures is located within the Edwards Aquifer Recharge Zone. The proposed structure is being built in an effort to reduce peak discharges downstream of the site at the confluence of the Dry Comal Creek and Comal River. The proposed structure will be constructed of roller compacted concrete and reinforced concrete. The structure height above the streambed is 70 ft with a vertical upstream slope and a downstream slope of 0.8:1 (H to V) consisting of formed RCC steps with 2-ft risers.

The drainage area contributing to the site is 5.61 square miles. During construction activities approximately 21.40 acres which includes clearing limits, haul roads, and staging areas will be disturbed. All of the disturbed areas are within the Edwards Aquifer Recharge Zone. Existing ranch roads will be widened and used to haul material to the construction area. Of the 21.40 acres of disturbance, 2.6 acres of roads will be widened to approximately 40 ft and improved with gravel base during construction activities. The gravel roads will be removed after construction activities. Approximately 14.4 acres will be cleared for the site while 4.4 acres will be utilized as a staging area for the site.

Temporary best management practices will be utilized to control and treat stromwater runoff. BMPs consisting of rock berms, and silt fences will be used to protect sensitive features identified during the geologic assessment. Temporary gravel construction entrance and exits will be used to keep mud and sediment off public roads.

SURVEY STAKING

Sensitive features at the site are marked with green tape and are labeled according to the ID on the Geologic Assessment Table. The coordinates to the different areas at the site are summarized below:

Entrance to the Site:	98°12′ 22.88″W 29°39′56.65″N
Northernmost Boundary of the Site:	98°12′31.35″W 29°40′16.38″N
Southernmost Boundary of the Site:	98°12′53.10″W 29°40′19.74″N
Westernmost Boundary of the Site:	98°12′37.18″W 29°40′19.74″N

0

•

•••••

•

•

0

0

Geologic Assessment Form (TCEQ-0585)

0

••••

•

......

•

....

0

.....

•

Geologic Assessment

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

REGULATED ENTITY NAME: Comal County, Dry Comal Creek Flood Retardation Structure, No. 11

TYPE OF PROJECT: X WPAP AST SCS UST

LOCATION OF PROJECT: X Recharge Zone Transition Zone Contributing Zone within the Transition Zone

PROJECT INFORMATION

- 1. <u>X</u> Geologic or manmade features are described and evaluated using the attached **GEOLOGIC ASSESSMENT TABLE**.
- 2. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (*Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A*, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Soil Units, I Characteristics			* Soil Group Definitions (Abbreviated)	
Soil Name	Group*	Thickness (feet)		A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
Branyon Clay (ByB)	D	7.8'	1	B. Soils having a moderate infiltration
Eckrant-Rock (ErG)	D	1'	1	rate when thoroughly wetted.
Orif Soil (Or)	A	1.5'	1	C. Soils having a slow infiltration rate
Purves Clay (PuC)	D	1.5'		when thoroughly wetted.
Rumple-Comfort (RUD)	С	2.3'		D. Soils having a <u>very slow infiltration</u> rate when thoroughly wetted.

- 3. <u>X</u> A **STRATIGRAPHIC COLUMN** is attached at the end of this form that shows formations, members, and thicknesses. The outcropping unit should be at the top of the stratigraphic column.
- 4. <u>X</u> A NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY is attached at the end of this form. The description must include a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure, and karst characteristics of the site.
- 5. <u>X</u> Appropriate SITE GEOLOGIC MAP(S) are attached:

The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale	1" = <u>200</u> '
Site Geologic Map Scale	1" = <u>200</u> '
Site Soils Map Scale (if more than 1 soil type)	1" = <u>500</u> '

- Method of collecting positional data:
 - X Global Positioning System (GPS) technology.
 - Other method(s).
- 7. <u>X</u> The project site is shown and labeled on the Site Geologic Map.

Attachment A, Geologic Assessment Table

GEOL	OGIC AS	SESSMEN	NT TAB	LE			PR	JJE	CT NA	ME									1.00	Concerning and real
LOCATION			FEATURE CHARACTERISTICS							EVALUATION		TION	T PHYSIC/		AL SETTING					
1A	1B *	1C.	2A	2B	3		4		5	5A	8	7	8A	88	9	100	10	1	u –	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	(SIONS (FEETO	TREND (DEGREES)	ğ	DENSITY (NO/FT)	APERTURE (FEET)	NFILL	RELATIVE INFILTRATION RATE	TOTAL	SEN	SITIVITY	CATCHM (AC	ENT AREA RES)	TOPOGRAPHY
				11 - 1239441		х	Y	z		10				9000 (9),	1 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	<40	<u>≻40</u>	<1.6	≥1.6	
6-1	29 40.297	98 12.486	CD	5	K _{ea}	1	2	1		0			0	5	10	X	01 - V V -	X	2	Hilltop
6-2	29 40.240	98 12.541	CD	5	Kep	2	3	0.5	N45W	0			0	10	15	X		Х		Hillside
5-3	29 40.103	98 12.540	SC	30	K _{ep}	15	1	0.5	N15W	0			0	25	55		X		X	Streambed
5-4	29 40.103	98 12.540	SC	30	K _{ep}	5	8	2	N40E	10			0	28	68		X	1	X	Cliff
6-5	29 40.114	98 12.509	SC	20	Kep	20	8	1.5	N05W	0			N	19	39	X	Q. /		X	Cliff
5-6	29 40.114	98 12.497	CD	5	Kop	30	6	2	N75E	0			C,N	19	24	X	1		X	Streambed
S-7	29 40.104	98 12.494	SC	20	Kop	1	4	1	N15E	0			0	17	37	X			X	Cliff
5-8	29 40.123	98 12.452	SC	20	Keo	4	4	1	N05E	0			0	19	39	X			X	Cliff
5-9	29 40.099	98 12,435	SH	20	Kep	4	2	4		0			0	22	42		X	Х	1	Hillside
5-10	29 40.131	98 12.421	CD	5	Кø	5	8	2	N35E	0			С	18	23	X			X	Streambed
S-11	29 40.144	98 12.399	CD	5	Kao	100	30	3	N85E	0		(С	18	23	Х			X	Streambed
5-12	29 40.144	98 12.399	SC	20	K.	10	10	2	N10E	0	-		0	19	39	Х			X	Hillside
5-13	29 40.143	98 12.399	Z-SF	30	K _{eo}	150	30		N30E	0	0.3	0.2	0	28	58		X		X	Streambed
S-14	29 40.148	98 12.421	Z-SF	30	K _{eo}	15	10		N20E	0	0.5	<0.1	0	15	45		X		X	Streambed
S-15	29 40.089	98 12.590	CD	5	Kep	1	1	1		0			0	5	10	Х		X		Hillside
5-16	29 40.053	98 12.338	CD	5	K _{eo}	50	15	2	N20E	0			N	15	20	X	1		X	Streambed
S-17	29 40.034	98 12.529	SC	20	K _{eo}	8	2	1	N40E	10			0	5	35	X	the second s	X		Hillside
S-18	29 39.981	98 12.480	CD	5	Keo	30	15	1	N34E	0			V	10	15	X		Х		Hilltop
5-19	29 40.193	98 12.508	MB-Well	30	Keo	0.5	0.5	pia politi		0) 	-	5	35	X	arteessor k	Х	0.00	Hillside
5-20	29 40.098	98 12.544	MB-Well	30	K _{op}	0.5	0.5			0		1		5	35	X			X	Streambed
DATUM	WGS84												-							
2A TYPE		TYPE		2	B POINTS						8/	INFILLIN	IG							
0	Cave				30		N	None	, exposed	bed	rock									
SC	Solution cavi	ty			20		с	Coars	e - cobbk	es, b	reakdow	n, sand, d	aravel							
SF		rged fracture(s)			20		0					A 549		ticks, dark co	lors					
F	Fault				20								Percentaria III	file, gray or r		rs				
0		bedrock feature	35		5				tation. Giv											
ив		ature in bedrock			30		FS		tone, cen					- 1. C						
SW	Swallow hole				30		x		materials		,									
SH	Sinkhole				20		**	5,0												
CD		sed depression			-0					12	TOPOG	RAPHY			1					-
Z		ed or aligned le			30		Cliff	Hilltor	, Hillside,				Stream	hed						TE

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the



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

Attachment B, Soil Profile and Narrative of Soil Units

According to the *Soil Survey of Comal and Hays Counties,, Texas* (USDA, 1984), and the USDA Web Soil Service (<u>http://websoilsurvey.nrcs.usda.gov/app/</u>), five different soils are within close proximity of the project site. These include the Branyon Clay, Eckrant-Rock Outcrop, Purves Clay, Orif Soils, and Rumple-Comfort Association (Figure B1). Descriptions of the hydraulic properties for each of these units were obtained from the USDA publication *Urban Hydrology for Small Watersheds* (1975, 1986) and are provided on page 1 of the Geologic Assessment Form. Descriptions of these units are provided below.

Group A soils have low runoff potential and high infiltration rates when thoroughly saturated. They consist of deep, well to excessively drained sand or gravel. These are usually associated with a high rate of water transmission. Only one Group A soil, called Orif Soil, was identified. The Orif Soil (Or) occurs in a small area at the entrance to the project site (Figure B1).

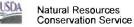
Group B soils are defined as those with moderate infiltration rates when thoroughly wetted. The consist of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures. They are reported to have a moderate rate of water transmission (0.15 – 0.30 in/hr; USDA, 1986). No Group B soils were identified in the project area during the geologic assessment.

Group C soils have low infiltration rates when thoroughly wetted and consist of soils with a layer that can impede downward movement of water and soils with moderately fine to fine texture. These are reported to have a low rate of water transmission (0.05 - 0.15 in/hr; USDA, 1986). Group C soils within the study area include the Rumple-Comfort association (RUD). They occur mostly at the higher elevations within the project area (**Figure B1**).

Group D soils have high runoff potential. They have very low infiltration rates when thoroughly wetted and consist of clay soils with a high swelling potential, high water table, soils with a claypan or clay layer at or near the surface, and shallow soils over nearly impervious material. These have a very low rate of water transmission (0 – 0.05 in/hr; USDA, 1986). Group D soils within the project area include the Branyon Clay (ByB), Eckrant-Rock outcrop (ErG), and Purves Clay (PuC). The ErG comprises the largest percentage of the project site (Figure B1).

Figure B1 Soil Map Comal County Water Pollution Abatement Plan Dry Comal Creek Flood Retardation Structure, No. 11





••••

•

•

Web Soil Survey 2.0 National Cooperative Soil Survey

Attachment C, Stratigraphic Column

 Stratigraphic Column and Hydrogeologic Summary of the Edwards Aquifer Outcrop, Comal County, Texas (adapted from USGS, 1994).

System	Hydrogo Ur		G	Group, Formation, or Member		Map Symbol	Thickness (ft)	Description
Quatemary			Alluvium C		Qal	1 - 4	Gravel, sand, silt, and clay; typically in floodplains.	
			Nava	arro a	nd Taylor Groups	Knt	600	Clay; chalky limestone
sno			Aust	in Gro	bup	Kau	130 – 150	White to gray limestone
Upper Cretaceous	Upper C Un		Eagl	e For	d Group	Kef	30 50	Brown, flaggy shale and argillaceous limestone
Upp			Buda	Buda Limestone			40 - 50	Buff, light-gray, dense mudstone
		Del Rio Clay			Kdr	40 - 50	Blue-green to yellow- brown clay	
	l		Geo	rgetov	wn Formation	Kgt	40 - 60	Gray to light-tan, marly limestone
				tion	Cyclic and Marine Members			Mudstone to packstone;miliolid grainstone; chert.
	885			Person Formation	Leached and Collapsed Member	Кр	180 - 224	Crystalline limestone; mudstone to grainstone; chert; collapsed breccia
	IV	quifer		ď	Regional Dense Member			Dense, argillaceous mudstone
Lower Cretaceous	v	Edwards Aquifer	Edwards Group		Grainstone Member			Miliolid grainstone; mudstone to wackestone; chert.
Lower C	VI	υ	Edwa	Kainer Formation	Kirschberg Evaporite Member	1/1.		Highly altetred crystalline limestone; chalky mudstone; chert.
	VII			Kainer Fo	Dolomitic Member	- Kk	260 - 320	Mudstone to grainstone; crystalline limestone; chert.
	VIII				Basal Nodular Member			Shaly, nodular limestone; mudstone and miliolid grainstone.
	Upper Trini ty Upper Aquifer		nember of the Glen Rose Limestone		Kgru	350 – 500	Yellowish-tan, thinly bedded limestone and marl	

Notes: Groups, formations, and members and thicknesses were modified from the USGS Publication WRIR 94-4117 (USGS, 1994), and the Bureau of Economic Geology Geologic Atlas of Texas, San Antonio Sheet (BEG, 1983)

Attachment D, Narrative of Site Specific Geology

Introduction

For the purpose of this study, the project limits are defined the potential work areas to be used during construction of the Comal County Dry Comal Creek Flood Retardation Dam, No. 11. The entire parcel of property is bordered by Krueger Canyon Rd. to the east and private property to the south and west. The purpose of this assessment is to identify potential pathways for contaminant movement to the Edwards Aquifer. This investigation was conducted and report prepared by a professional geologist licensed in accordance with the Texas Geoscience Practice Act.

The applicable Comal and Hays Counties soil survey (USDA, 1984) and United States Department of Agriculture (USDA) web utility (USDA, 2008) were used in conjunction with the field investigation to evaluate soils within the project area. A description of soils at the site are provided in **Attachment B**. Geologic features were reviewed in the available literature, but only those features actually noted during the field investigation within the confines of the project site are documented in this assessment. Further, a database search was requested and conducted by the Texas Speleological Society (TSS) to assist in identifying known features within the vicinity of the site. No additional features were found through the TSS records search. Results from the literature review and field investigation are presented in the following sections. The required Geologic Assessment Form and Table (Form 0585; TCEQ, 2004) are provided in **Attachment A** at the beginning of the Geologic Assessment portion of the WPAP.

Regional and Site Geology

Geologic formations within the project area are Lower Cretaceous marine deposits and more recent Quaternary alluvium. These rocks, comprised chiefly of limestone, were deposited on a vast submerged plain known as the Comanche Shelf (BEG, 1972). The Comanche Shelf was a vast, generally flat, submerged plain that covered most of the state. Three dominant features comprised the Comanche Shelf and include the Maverick Basin to the west, the North Texas – Tyler Basin to the northeast, and the Central Texas Platform. The southeastern extension of the Central Texas Platform is known as the San Marcos Platform. The project site lies within the San Marcos Platform.

The San Marcos Platform is bordered by the Edwards Plateau physiographic province to the north and the Gulf Coastal Plain to the south. It also lies within the Balcones Fault Zone (BFZ), a region of southwest to northeast trending predominantly normal faults that are present in southern Comal and adjacent counties. The general trend of the BFZ near the site is approximately north 50 degrees east (N50E). One of the most notable faults in the BFZ, the Comal Springs Fault, is noted to be present (buried) near the southern margin of the site (BEG, 1993; USGS, 1994) and marks the boundary between the Edwards Aquifer Recharge and Transition Zones. This fault forms a prominent part of the escarpment separating the Edwards Plateau to the north from the Gulf Coastal Plain to the south (USGS, 1994). The elevation across the site ranges from 690-ft to 820-ft above sea level (as!).

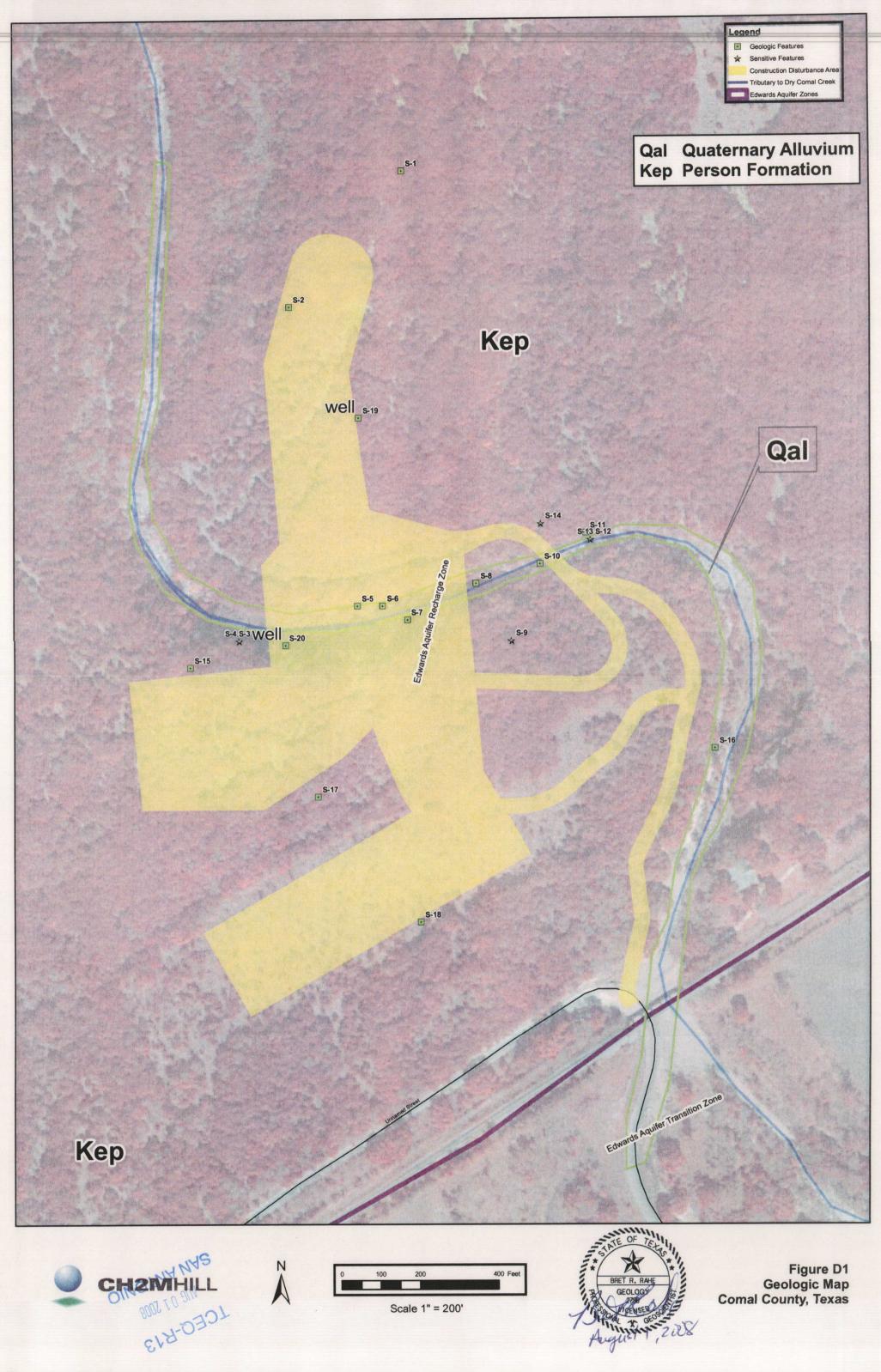
According to available published geologic maps and field observations, the geologic units mapped at the ground surface within the project area include Quaternary Alluvium (Q_{al})

•

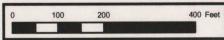
Stratigraphic Column and Hydrogeologic Summary of the Edwards Aquifer Outcrop, Comal County, Texas (adapted from USGS, 1994).

System	Hydroge Uni		Group, Formation, or Member			Map Symbol	Thickness (ft)	Description
Quaternary		e.	Alluvium			Qal	1 - 4	Gravel, sand, silt, and clay; typically in floodplains.
			Nava	arro a	nd Taylor Groups	Knt	600	Clay; chalky limestone
sno			Aust	in Gro	bup	Kau	130 - 150	White to gray limestone
Upper Cretaceous	Upper Co Unit		Eagl	e For	d Group	Kef	30 50	Brown, flaggy shale and argillaceous limestone
Upp			Buda	Buda Limestone			40 - 50	Buff, light-gray, dense mudstone
			Del	Del Rio Clay			40 - 50	Blue-green to yellow- brown clay
	1				vn Formation	Kgt	40 - 60	Gray to light-tan, marly limestone
	II			Person Formation	Cyclic and Marine Members			Mudstone to packstone;miliolid grainstone; chert.
	111				Leached and Collapsed Member	Кр	180 - 224	Crystalline limestone; mudstone to grainstone; chert; collapsed breccia
	IV	quifer		ā	Regional Dense Member			Dense, argillaceous mudstone
Lower Cretaceous	v	Edwards Aquifer	Edwards Group		Grainstone Member		260 - 320	Miliolid grainstone; mudstone to wackestone; chert.
Lower C	VI	- W	Edwa	ormation	Kirschberg Evaporite Member			Highly altetred crystalline limestone; chalky mudstone; chert.
	VII			Kainer Formation	Dolomitic Member	- Kk		Mudstone to grainstone; crystalline limestone; chert.
	VIII				Basal Nodular Member			Shaly, nodular limestone; mudstone and miliolid grainstone.
	Upper Trinity Upper member of the Glen Rose Limestone Aquifer			ne Glen Rose Limestone	Kgru	350 – 500	Yellowish-tan, thinly bedded limestone and mar!	

Notes: Groups, formations, and members and thicknesses were modified from the USGS Publication WRIR 94-4117 (USGS, 1994), and the Bureau of Economic Geology Geologic Atlas of Texas, San Antonio Sheet (BEG, 1983)







Feature S-10 (Figure D1) is a small depression adjacent to the upstream side of the existing road as it crosses the stream drainage. The feature does not appear to have been created from karst processes. Rather, it is more likely that the feature results from changes in surface flow and subsequent relocation of alluvium during flood events. A well graded grain size distribution, ranging from sand to boulders, is present both within and surrounding the feature. Structural elements such as fractures or faults were not noted. As such, the relative infiltration rate was scored low and the feature evaluated as non-sensitive.

Feature S-11 (Figure D1) is a closed depression located about 200-ft downstream of the existing road as it crosses the stream drainage. The feature itself is within the stream bed and the floor, mostly exposed bedrock, lacks karst features that would be conducive to infiltration and/or recharge. The relative infiltration rate was evaluated as low and the site considered as non-sensitive.

Feature S-15 (Figure D1) is a closed depression located on the hillside upstream of the proposed flood retardation structure. Surrounding land is vegetated with native grasses, ashe juniper (cedar) and live oak trees. The feature is relatively small (less than 1-ft in each dimension) and does not appear to receive significant recharge. A clearly discernable trend or alignment with other features was not noted. The relative infiltration rate was evaluated as low and the feature evaluated as non-sensitive.

Feature S-16 (Figure D1) is a closed depression located in the streambed downstream of a large abandoned concrete structure. Bedrock is exposed in the floor of the depression. Minor fractures, mostly sealed, occur infrequently. Solution enlargement of the fractures was not evident and apertures were less than 0.25-inches. The area is likely the result of surface runoff during precipitation events scouring and relocating debris from atop the bedrock. While according to published geologic maps (BEG, 1983; USGS, 1994) a large normal displacement fault (Comal Springs Fault) exists about 400-ft south and outside of the project limits, there were no significant structural features noted at this location. As such, the feature was evaluated as non-sensitive with a relatively low infiltration rate.

Feature S-18 (Figure D1) is located on a hilltop and surrounded by generally flat topography. It is a small depression overgrown with grass and cactus. Adjacent vegetation is mostly native grasses with dense mesquite and ashe juniper (cedar). There are no obvious features present that would indicate an influence from karst processes or a conduit for recharge. The feature was rated as non-sensitive with a low infiltration rate.

Solution Enlarged Fractures

•

0

Two features were classified as zones of solution enlarged fractures during the field investigation. These include features S-13 and S-14 (Figure D1). Each has varying degrees of solution enlargement. Descriptions of these features are provided below.

Feature S-13 (Figure D1) is a zone of solution enlarged vertical fractures in the streambed. The zone begins on the downstream side of the road where it crosses the stream drainage and extends about 150-ft further downstream. Fractures are infilled with sand and gravel and occur at a density of about one per three feet. Vegetation is minimal as it is often removed during flooding. The fractures within the zone are inconsistent with the regional structural trend. However, the feature was evaluated as having the potential for a moderate relative infiltration rate that resulted in a sensitive rating.

and dry vegetation debris were found on the floor of feature. Structural features that could suggest connection to the subsurface were not noted during the field investigation. The feature was evaluated as non-sensitive with a low relative rate of infiltration.

Feature S-12 (Figure D1) is a solution cavity located about 200-ft downstream from the intersection of the road and stream drainage. It is about 8-ft above the base of the streambed on the cutbank side of the hill. The feature is filled with soil and loose vegetative debris. As with some of the previous solution cavities described, the formation of this feature probably resulted from a combination of dissolution and mechanical erosion. The general trend of the feature measured in the field was N10E which is inconsistent with the regional trend of structural faulting. A vertical component could not be observed and the feature appears to extend only horizontally parallel to the limestone bedding planes. The feature was evaluated as non-sensitive, similar to other similar features identified at the site.

Feature S-17 (Figure D1) is a solution cavity at the base of a bedding outcrop. The extent of the feature is limited due to infilling by soil and organic debris. Animal burrowing was evident and the potential for rapid infiltration is low. Soil and organic material is mounded in front of the feature suggesting inflow during precipitation events is minimal. The feature was evaluated as non-sensitive.

Sinkholes

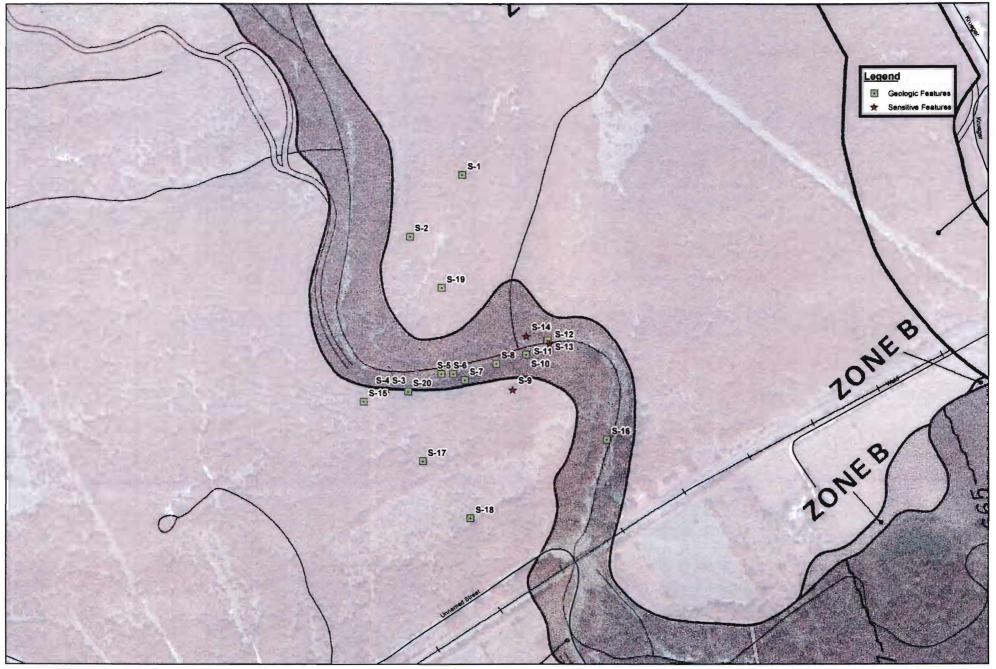
One sinkhole was identified during the field investigation. Feature S-9 (**Figure D1**) is surrounded by loose rocks and organic material but the vertical conduit is clear to about 4-ft below ground. The bottom of the feature was covered with organics and leaf debris that obscured any evidence of connection to other flow conduits. The potential for infiltration was evaluated as moderate that resulted in the feature be classified as sensitive.

Manmade Features

Two monitoring wells were located during the assessment. Both Features (S-19 and S-20, Figure D1) have steel protective casings completed to about 3-ft above ground surface. Locks were installed on the protective casings so visual inspection of the well casing was not possible. A grouted annular seal was observed at the surface. The relative infiltration for both features is low and both were rated as non-sensitive.

FEMA Floodplains

A FEMA 100-yr floodplain has been mapped along the stream drainage within the project area (FEMA, 2008; Figure D2). Surface water was not present within the stream drainage during the field investigation. Flow within the stream is intermittent and likely coincides only with significant precipitation events.





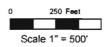


Figure D2 FEMA 100-yr Floodplain Comal County, Texas

Ν

References

•

•

•

••••

BEG, 1972. Edwards Group Surface and Subsurface, Central Texas. Report of Investigations No. 74.

BEG, 1983. Geologic Atlas of Texas, San Antonio Sheet.

FEMA, 2008. Flood Insurance Rate Map. Comal County, Texas, Map No. 485463011C, Revised September 29, 1986. <u>http://www.FEMA.gov</u>.

TCEQ, 2004. Geologic Assessment Forms and Tables for Regulated Activities on the Edwards Aquifer Recharge Zone. http://www.tceq.state.tx.us/compliance/field_ops/eapp/material.html

USDA, 1975. Urban Hydrology for Small Watersheds.

USDA, 1984. Soil Survey of Comal and Hays Counties, Texas.

USDA, 1986. Urban Hydrology for Small Watersheds.

USDA, 2008. Soil Survey Web Application. http://websoilsurvey.nrcs.usda.gov/app/

USGS, 1994. Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Outcrop, Comal County, Texas.

Water Pollution Abatement Plan Application Form (TCEQ-0584)

Water Pollution Abatement Plan Application

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

REGULATED ENTITY NAME: Dry Comal Creek Flood Retarding Structure

REGULATED ENTITY INFORMATION

- 1. The type of project is:
 - ____ Residential: # of Lots:
 - Residential: # of Living Unit Equivalents:
 - ____ Commercial
 - Industrial
 - X Other: Flood Retarding Structure
- 2. Total site acreage (size of property): <u>21.40 acres</u>
- 3. Projected population: <u>none</u>
- 4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops		÷ 43,560 =	
Parking		÷ 43,560 =	
Other paved surfaces	113,256	÷ 43,560 =	2.60
Total Impervious Cover	65,340	÷ 43,560 =	1.50
Total Impervious Cover ÷ Total Acr	19.16%		

- 5. \underline{X} **ATTACHMENT A Factors Affecting Water Quality.** A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. X 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.): Width of R.O.W.: L x W = ____ Ft² ÷ 43,560 Ft²/Acre = _____ feet.
 10. Length of pavement area: Width of pavement area: L x W = ____ Ft² ÷ 43,560 Ft²/Acre = _____ feet.
 10. Length of pavement area: Pavement area: _____ feet.
 10. Length of pavement area: ______ feet.
 10. Length of pavement area: _______ feet.
 10. Length of pavement area: ________ feet.
 10. Length of pavement area: ________ feet.
 10. Length of pavement area: __________ feet.
 10. Length of pavement area: _________ feet.<
- 11. $\underline{n/a}$ A rest stop will be included in this project. A rest stop will **not** be included in this project.
- 12. <u>n/a</u> 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 description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

WASTEWATER TO BE GENERATED BY THE PROPOSED PROJECT

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

%	Domestic	 gallons/day
~~%	Industria	gallons/day

%	Commingled	gallons/day	1

TOTAL 0 gallons/day

- 15. Wastewater will be disposed of by:
 - N/A 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. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.
 - 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.

N/A 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. <u>N/A</u> All private service laterals will be inspected as required in 30 TAC §213.5.

SITE PLAN REQUIREMENTS

•

Items 17 through 27 must be included on the Site Plan.

- 17. The Site Plan must have a minimum scale of 1" = 400'. Site Plan Scale: 1" = 200'.
- 18. 100-year floodplain boundaries
 - X Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
 - ____ No part of the project site is located within the 100-year floodplain.

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

Federal Emergency Management Agency Panel 4854630100C

- 19. ____ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
 - <u>X</u> The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
- 20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
 - X There are <u>2</u> 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.
 - X The wells are not in use and will be properly abandoned.
 - ____ The wells are in use and comply with 30 TAC §238.
 - ____ 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:
 - <u>X</u> All **sensitive and possibly sensitive** geologic or manmade features identified in the Geologic Assessment are shown and labeled.
 - <u>n/a</u> No **sensitive and possibly sensitive** geologic or manmade features were identified in the Geologic Assessment.
 - <u>N/A</u> **ATTACHMENT D Exception to the Required Geologic Assessment.** An exception to the Geologic Assessment requirement is requested and explained in ATTACHMENT D provided at the end of this form. Geologic or manmade features were found and are shown and labeled.
 - <u>N/A</u> **ATTACHMENT D Exception to the Required Geologic Assessment.** An exception to the Geologic Assessment requirement is requested and explained in ATTACHMENT D provided at the end of this form. No geologic or manmade features were found.

- 22. X The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. <u>X</u> Areas of soil disturbance and areas which will not be disturbed.
- 24. <u>X</u> Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. X Locations where soil stabilization practices are expected to occur.
- 26. <u>X</u> Surface waters (including wetlands).
- 27. X Locations where stormwater discharges to surface water or sensitive features. There will be no discharges to surface water or sensitive features.

ADMINISTRATIVE INFORMATION

•

0

0

0

- 28. X One (1) original and three (3) copies of the completed application have been provided.
- 29. X Any modification of this WPAP will require TCEQ executive director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

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:

Indith Ibarra Branchella

Print Name of Customer/Agent

Maria - Branchotta

Signature of Customer/Agent

8/1/08

WPAP Application Form

Attachment A

Factors Affecting Water Quality

The major factor that could potentially affect water quality is sediment in stormwater runoff after clearing the vegetation. Construction vehicles entering and exiting the site also affect water quality which includes fuels and lubricants. However, the construction access roads will be constructed of gravel and therefore will serve as a primary filter. The flood retarding structure which serves as the impervious cover will be exposed to construction debris as the structure is being built and could potentially affect water quality.

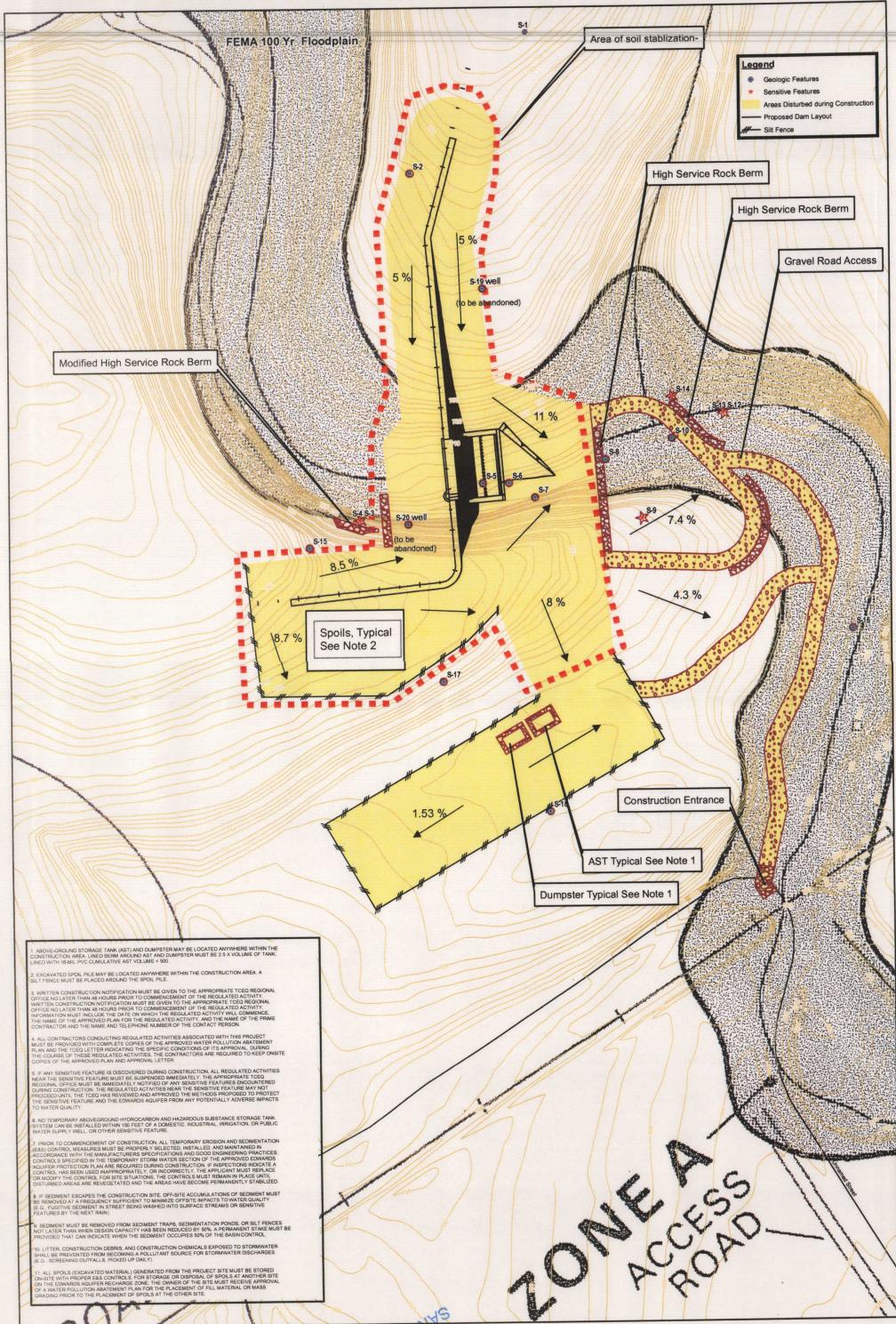
Attachment B

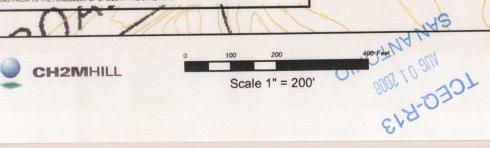
Volume and Character of Stormwater

The contributing drainage area to the site is 5.61 square miles or 3591 acres from a mostly undeveloped area. The proposed structure which consists of 1.50 plan acres of concrete will not have any potential sources of contamination on it as it will only be used to convey existing stormwater by detaining it and releasing it when the peak downstream flows have attenuated. The peak discharges for the site are shown below:

	2 Yr	5Yr	10Yr	25Yr	50Yr	100Yr
Discharges	2161 cfs	4475 cfs	6136 cfs	8246 cfs	9985 cfs	11949 cfs

The combination of the structure not being affected by any source of potential contaminants and it not being greater than 20% impervious results in character of undisturbed water. In addition, construction roads for the project will be constructed of gravel which will act as a primary buffer for stormwater runoff. Temporary BMP's will be utilized upgradient and downgradient of the site to include high service rock filter dams, eathern berms, construction entrance/exit treatments, gravel roads, and lined berms in addition to the natural rocks and vegetated terrain that exists at the site which will intercept and treat the stormwater flow. Once the construction of the dam starts water will be intercepted and detained upstream and no water will travel downstream of the site.





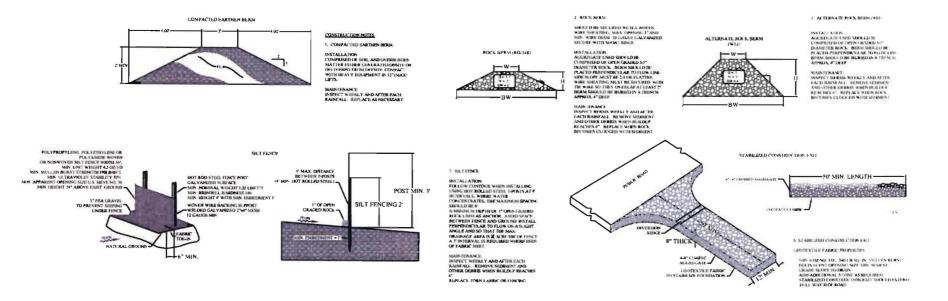
Site Plan **Comal County, Texas**

N

A







Temporary Stormwater Section (TCEQ-0602)

Temporary Stormwater Section

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

REGULATED ENTITY NAME: Dry Comal Creek Flood Retarding Structure

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:
 - ____ 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.
 - X 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-site.
- 2. <u>X</u> ATTACHMENT A Spill Response Actions. A description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is provided at the end of this form.
- 3. <u>X</u> 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. <u>X</u> **ATTACHMENT B Potential Sources of Contamination.** Describe in an attachment at the end of this form any other activities or processes which may be a potential source of contamination.
 - ____ There are no other potential sources of contamination.

SEQUENCE OF CONSTRUCTION

- 5. X ATTACHMENT C Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is provided at the end of this form. For each activity described, an estimate of the total area of the site to be disturbed by each activity is given.
- 6. <u>X</u> Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>tributary to Dry Comal Creek</u>

TEMPORARY BEST MANAGEMENT PRACTICES (TBMPs)

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

TCEQ-0602 (Rev. 10/01/04)

on the site plan.

- 7. <u>X</u> ATTACHMENT D Temporary Best Management Practices and Measures. A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
 - X 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 has been provided in the attachment at the end of this form
 - a. 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.
 - b. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - d. A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
- 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.
 - <u>X</u> ATTACHMENT E Request to Temporarily Seal a Feature. A request to temporarily seal a feature is provided at the end of this form. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 <u>There will be no temporary sealing of naturally-occurring sensitive features on the site.</u>
- 9. <u>X</u> ATTACHMENT F Structural Practices. Describe 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. Placement of structural practices in floodplains has been avoided.
- 10. <u>X</u> **ATTACHMENT G Drainage Area Map**. A drainage area map is provided at the end of this form to support the following requirements.
 - ____ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - X For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- 11. <u>N/A</u> **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 has 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 provided as at the end of this form.
- 12. X ATTACHMENT I Inspection and Maintenance for BMPs. A plan for the inspection of temporary BMPs and measures and for their timely maintenance, repairs, and, if necessary, retrofit is provided at the end of this form. A description of documentation procedures and recordkeeping practices is included in the plan.
- 13. X 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. X 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. <u>X</u> 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. <u>X</u> 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. X 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 at the end of this form.
- 18. X 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. <u>X</u> Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

ADMINISTRATIVE INFORMATION

- 20. X All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. X 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. X 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.

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:

Judith Ibarra-Branchetta

Print Name of Customer/Agent

.10 mar Branchetta

Signature of Customer/Agent

8.1.08

Date

EAPP - WATER POLLUTION ABATEMENT PLAN (WPAP) TEMPORARY STORMWATER SECTION

Attachment A - Spill Response Actions

Spill-Reporting Phone Numbers are listed on Page A.3.

The Contractor shall specify and operate according to procedures that, at a minimum, comply with the following Spill Response and education guidelines:

A. Worker Safety Education

- 1. **Safety Training:** the safety foreman will be Site Safety Coordinator trained and carry OSHA 40hr HAZWOPER certification.
- 2. **Material Safety Data Sheets (MSDS):** will be maintained in the construction office (for all fuels, lubricants, soil stabilizers, and other chemicals used on site prior to and during dam construction). On site employees will be briefed on (and become familiar with) handling, storage, spill-response, and disposal of on-site chemicals.
- 3. Human Health and the Environment: site employees will be briefed on potential chemical dangers to humans and the environment in the event of a spill or leak, to include first-aid.
- 4. Reportable quantities (RQ): will be communicated to employees as listed in 30 TAC 327.4:

Petroleum Spills:

Onto Dry Land: 25 gallons

Into Waters of the State: enough to cause a sheen

Chemical Spills:

Onto dry land: see Table 302.4 in 40 CFR §302.4

Into Waters of the State: see Table 302.4 in 40 CFR §302.4

- 5. **Safety Meetings:** disposal procedures, storage, first-aid response, location of absorbent material, clean-up, reportable quantities, and reporting procedures will be reinforced during regularly scheduled safety meetings. Maintain training/signature logs and brief new employees on new methods.
- 6. **Uniform Practice:** ensure all partner firms and contractors are educated on spill prevention and response procedures.

B. General Measures

- 1. Site Safety Coordinator: Designate responsible individuals to enforce material control measures (i.e. training, receiving, storage and handling, inspection, cleanup, and disposal).
- 2. Secure Storage: store potentially hazardous materials and wastes in covered containers and/or lock-boxes to prevent accidental access and to deter vandalism.
- 3. **Housekeeping Practices:** keep chemical/waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.
- 4. Hazard Communication: place Material Safety Data Sheets (MSDS) and proper storage, cleanup, and spill reporting instructions in an open, conspicuous, and accessible location.
- 5. **Spill Response:** to the extent practicable, spills of petroleum or other substances listed under 40 CFR parts 110, 117, and 302, to include sanitary and septic wastes, should be contained and cleaned up immediately.

COMAL COUNTY FLOOD CONTROL STRUCTURE CCEO – COMAL COUNTY ENGINEER'S OFFICE

- 6. **Waste Recovery:** 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.
- 6. Stormwater Protection: spills should be covered and protected from stormwater run-on during rainfall, to the extent that is doesn't compromise cleanup activities.
- 8. **Disposal:** store and dispose of used cleanup materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

C. Spill Mitigation

- 1. Clean up spills and leaks immediately.
- Small spills on paved surfaces should be addressed using rags, followed by general cleanup with a damp mop. Absorbent materials should be applied to larger spills. If a spilled material is hazardous, any materials used during cleanup become hazardous likewise, and must be disposed of appropriately.
- 3. Never hose down or bury dry spill materials. Clean up as much of the material as possible, excavate exposed soil, and dispose of generated waste material properly. See the waste management BMPs in this section for specific information.

Minor Spills

Minor spills include small quantities of oil, gasoline, paint, etc. which can be controlled by first responders to the spill site.

- 1. Absorbent materials should be used on small spills. Do not 'hose down' or bury any spills.
- 2. Minor spill cleanup practices include:
 - Containment of the spill to control spread
 - Recovery of spilled materials
 - Cleaning of the contaminated area
 - Proper disposal of contaminated materials
- 3. All cleanup materials should be removed promptly and disposed of properly.

Semi-Significant Spills

Semi-significant spills can be controlled by first-responders with assistance from other personnel, such as laborers and foremen, etc. This response may require cessation of other activities.

Spills should be cleaned up immediately.

- 1. Contain the spread of the spill.
- 2. Notify the project foreman immediately.
- 3. If the spill occurs on a paved or impermeable surface, clean up using "dry" methods (absorbent materials, cat litter, and/or rags). Form a tight circle around spilled chemicals using absorbent material.
- 4. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

EAPP - WATER POLLUTION ABATEMENT PLAN (WPAP) TEMPORARY STORMWATER SECTION

Significant/Hazardous Spills

For significant spills of reportable quantity:

- 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.
- 2. For spills exceeding federal reportable quantities, the contractor should notify the National Response Center at (800) 424-8802 (to conform with the requirements in 40 CFR parts 110, 119, and 302).
- 3. Federal notification should first be made by telephone and followed up in a written report.
- A spill-response contractor or Haz-Mat team should be contracted immediately. Construction
 personnel should not attempt to clean up until the appropriate and qualified staff has arrived
 on site.
- 5. Other agencies who may need to be contacted include, but are not limited to, the City Police Department, the Fire Department, and the County Sherriff, the County Engineer's office, etc.

Government Spill Reporting Contact Numbers

In the event of a reportable spill, the following Emergency Response Agencies can be contacted for assistance. Always inform your supervisor of reportable spills, immediately; and follow company policy when responding to emergencies.

State State of Texas Spill-Reporting Hotline and the SERC¹: 1-800-832-8224
Local TCEQ (24-hr): 1-800-832-8224
TCEQ, Region 13 Field Office: 210-490-3096 (Monday–Friday, 8:00 AM – 5:00 PM)
Federal National Response Center²: 1-800-424-8802
US EPA Region 6, Dallas (24-hr): 1-866-372-7745
National Weather Service: 1-281-337-5074

State Emergency Response Commission (SERC)

² notifying the NRC does **not** constitute notice to the state

COMAL COUNTY FLOOD CONTROL STRUCTURE CCEO – COMAL COUNTY ENGINEER'S OFFICE

Detailed Telephone Spill Report Form

Date:
Location of Incident:
Description of Material Spilled (CAS number if available):
Quantity of Material Spilled
Cause of Spill:
Authorities Notified:
Remediation/clean-up action:
Corrective measures taken for prevention of recurrence:
Signature:
Foreman Signature:
Notes:
Attachmonto
Attachments
Sketch - location of spill with respect to site
Sketch - spill area, scale bar, placement of absorbent material

copy of MSDS (found in construction trailer)

Emergency Phone Numbers

State State of Texas Spill-Reporting Hotline and the SERC: 1-800-832-8224

Federal National Response Center: 1-800-424-8802

ATTACHMENT B - Potential Sources of Contamination

Tables B.1 and B.2 present potential sources of contamination at the Dry Comal Dam site.

Table B.1 - Staging Area

•

Material	Quantity On-Site	Spill Prevention Measures				
Stored Gasoline / Diesel Fuel	< 500 gallons cumulative	Temporary ground-level ASTs will be surrounded by a 2.5X volume storage capacity earthen berm or rigid fence, and lined with a 16-mil impermeable PE or PVC barrier				
Lubricants / Solvents	< 20 gallons cumulative - aerosol cans - 1-pt cans - 1-gal cans	Lubricants, solvents, or chemicals stored on site will be stored in heavy-duty locked chemical-storage cabinet near the construction office. Abatement materials (rages, absorbent socks, cat-litter, etc.) will be stored adjacent to the storage cabinet. Inspection forms and contact numbers will be				
Trash Debris	Covered Dumpster 54-gallon lined and covered drums	posted on the cabinet door. Integrity of dumpster will be inspected upon delivery and placed within lined berm area Dumpster lid will be kept closed				
		Drums will be emptied into dumpster regularly Dumpster will be regularly inspected for leaks				

Table B.2 - Construction and Staging Areas

Material	Quantity On-Site	Spill Prevention Measures
Curing Agents	Will not be stored on-site.	If necessary, concrete curing agents will be transported and utilized by the contractor.
Fuel in vehicles / equipment	Approx. 20 to 150 gallons per vehicle	Perform daily inspections of vehicles and staging area for visible leaks; repair or replace vehicles with leaks
Coolant in vehicles / equipment	Approx. 2 to 20 gallons	Perform daily inspections of vehicles and staging area for visible leaks; repair or replace vehicles with leaks
Hydraulic oil / transmission fluid / crankcase oil / lubricating fluid in vehicles and equipment	Approx. 3 to 175 gallons	Perform daily inspections of vehicles and staging area for visible leaks; repair or replace vehicles with leaks

ATTACHMENT C - Sequence of Major Activities

Table C.1 presents the sequence of major development activities that will, or may, disturb natural site runoff characteristics during the 12-months of site-work and dam construction:

Activity	Area (ac)	Description
Staging Area / Road Improvement	4.4 / 2.6	Roads: existing ranch roads will be utilized for construction access, but will be leveled and/or widened in some areas. Roads will be leveled and stabilized using several inches depth of ³ / ₄ -inch to 3-inch crushed limestone.
Site Clearing	14.4	Dam Footprint: approximately 10-acres surrounding the dam footprint will be cleared mechanically and mulched on site.
		Roads: current ranch roads will provide access during construction phase. Roads will be further cleared only at bottleneck points where the current width is not 30-feet. A short bypass (approx. 2-acres) will also be installed between the staging and construction areas (see WPAP Site Plan).
		Staging Area: approximately four (4) additional acres will be cleared and added to the existing equipment staging area
Excavation, Abutment Preparation, and Keyed Foundation	10	The approximate 10-acre dam footprint (including cliff face walls) will be cleared of trees and underbrush prior to excavation. Several feet of material will be removed along this lateral axis to provide relief for the dam's keyed abutment and foundational features, in addition to the downstream stilling basin.
Construction	10	Roller-compacted concrete (RCC) dams utilize materials found in typical concrete: cement, water, and aggregate (i.e. sand, gravel, crushed stone, granulated slag, etc.). RCC material is drier than typical concrete, and in this case will be mixed off-site. Construction will occur in 6-in to 1-ft lifts followed by vibratory roller compaction.
Remove BMPs	per plan	Remove silt fences, rock berms, and construction entrance. All remnants of BMPs will be transported and appropriately disposed of off-site. BMP locations will be restored to original condition and stabilized with mulch if necessary.
Remove Road	2.6	Roads: gravel from roads will be removed subsequent to construction, returning them to their original condition. Road easements will remain and provide access to inspectors and O&M contractors.

Table CA Common and	Description of Mais	- Olda Davalanana Anticitian
i able C. I – Sequelice allu	Description of majo	r Site-Development Activities

ATTACHMENT D - Temporary Best Management Practices and Measures

The Contractor shall construct Temporary Best Management Practices (TBMPs) which, at a minimum, meet the following guidelines to: 1) prevent pollution of surface water, groundwater, and stormwater; and 2) account for development sequencing, changing site characteristics, and runoff origins (see *Site Map*).

- A. **Upgradient Flow:** the following BMPs will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site as it flows across the site.
 - 1. **Prior to Excavation:** a high-service rock berm and modified high-service rock berm will be installed upsteam of the <u>construction site and staging areas</u>, with the intent of reducing stormwater velocity crossing construction areas.
 - 2.Dam Construction Phase: as the dam is initiated, the structure itself will prevent upgradient stormwater from crossing the site.
- B. **On-Site Runoff:** the following BMPs will prevent pollution of surface water or groundwater that originates on-site, as it leaves the site:
 - 1. **Staging Area:** silt fences will be installed on the upgradient and downgradient edges of the staging area. Berms are intended to decrease runoff velocity, facilitate settling of suspended sediment, and prevent runoff. To prevent impoundment of stormwater, rock berms and filter fabric will be installed at concentrated outlets. Downstream of the berm, natural vegetation (grasses, forbs, shrub species, etc.) will provide further impedance prior to runoff entering the Dry Comal channel.
 - 2. **Construction Area:** a 2-foot rock berm will be constructed perpendicular to the channel, downgradient from the bypass road, and *upgradient from the features S-14, S-10, and S-9*.
- C. **Surface Water and Aquifer Protection:** description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - 1. **Stream Channel:** a 2-foot rock berm will be installed downstream of the construction area. The rock will decrease stormwater velocity, facilitate settling of suspended solids, and prevent increased sedimentation of Dry Comal Creek.
 - 2. **Sensitive features:** the following BMP will prevent pollutants of sediments from entering identified sensitive recharge features:

Monitoring Well: Feature S-20 is a monitoring well in the streambed, immediately upstream from the dam face. Per recommendation from TCEQ Underground Injection Control (UIC) and the Edward's Aquifer Authority (EAA), this feature will be plugged by a licensed water well installer.

Feature S-3: a modified high-service rock berm will provide protection between construction area and sensitive feature S-3, while maintaining natural upgradient flow. Potential backwater will exit the dam pool area via culvert.

Features S-9, S-12, and S-14: high-service rock berms will be installed 10 to 15-feet from the sensitive feature on the upgradient side facing the dam construction area and along gravel roads (strategically placed so as to not contribute to backwater collection on the feature side of the berm).

D. **Flow Maintenance:** 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.

Features S-13 and S-14: natural runoff to these features, from the hillside to the north, will not be impeded.

COMAL COUNTY FLOOD CONTROL STRUCTURE CCEO - COMAL COUNTY ENGINEER'S OFFICE

ATTACHMENT E - Request to Temporarily Seal a Feature

<u>Request to temporarily seal Feature S-3:</u> sensitive geologic feature S-3 was determined to require protection during site activity. S-3 is a preferentially eroded cliff overhang on the outer bank of the Dry Comal, immediately upgradient of construction limits. S-3 has the following dimensions: W15' X D1' X H0.5'. The solution agreed upon to protect this feature includes: 1) filling of the overhang with limestone gravel of nominal diameter greater than 6-inches, 2) formation of a cobble slope from the streambed up to the top of the feature, 3) covering of the berm with filter fabric, and 4) covering of filter fabric with same cobble. Subsequent to construction, coble and filter fabric will be removed.

During the geologic assessment, no sensitive features were identified within the footprint of the proposed dam footprint.

- Basis for determination of the dam location as feasible was based on desired storage volume and constructability, largely defined by natural topographic relief.
- Following the geologic assessment, placement was further refined to avoid sensitive geologic features.

Three geologic features (S-5, S-6, and S-7) will be excavated during construction of the dam's stilling basin. These features were not identified as sensitive.

ATTACHMENT F - Structural Practices

Other than the dam and the stilling basin, no permanent flow control structures have been designed into the Comal County Dam construction process.

- The dam will minimize flood hydrographs in urban areas of New Braunfels
- In the event of stored water cresting the dam spillway, the stilling basin will reduce velocity of the hydraulic jump and prevent erosion on the downstream side.

Silt fencing will be removed when dam construction is complete.

ATTACHMENT G - Drainage Area Map

A drainage area map is provided at the end of this section, showing: topographic contours, the 100year floodplain, the EARZ, the proposed dam structure, and TBMPs intented to prevent erosion / protect sensitive features (see Site Map).

ATTACHMENT H - Temporary Sediment Pond(s) Plans and Calculations

No temporary sedimentation ponds have been designed into the implementation of the Dry Comal County Flood Retarding Structure.

ATTACHMENT I - Inspection and Maintenance for BMPs

- TMBP Construction: rock berms and silt fencing will be installed by an experience contractor in accordance with specifications found on the Technical Guidance Manual. Rock will be a minimum of 2' X 2', and silt fencing design will be modified slightly due to constructability issues (i.e. 6" trench will be replaced by a layer of crushed rock to anchor geotextile fabric). Inspection schedules follow:
 - (a) Silt Fencing: will be inspected weekly, or following rains in excess of 0.5". Inspection findings will be documented on forms maintained in the construction office (see example Inspection Form). Any accumulated silt, in excess of 6", will be removed from the fence line. If the silt fence is damaged, torn, collapsed, or otherwise ineffective, the fence will be repaired or replaced.
 - (b) High-Service Rock Berm: will be inspected monthly, or following rains in excess of 2". Written documentation of inspections will be maintained at the construction office. Any wall sections that become damaged, eroded, filled with sediment, or otherwise ineffective, will be repaired or replaced.
 - (c) Containment Berms: berms surrounding temporary fuel ASTs will be inspected daily. Inspection reports will be maintained in the field office. Any breaches in the ability of containment berms to capture and store spilled fuel, will be addressed and repaired immediately.
- 2. Sediment Escape: fugitive sediment at streets, construction entrances, damaged TBMPs, or unanticipated erosion areas will be mitigated as soon as possible. Sediments will be collected, TBMPs will be repaired, and new TBMPs will be installed in necessary.
- **3. Sediment Traps:** sediment traps have not been incorporated into mitigation practices outlined in the Dry Comal County Flood Retarding Structure WPAP.
- 4. Pollutant Sources: litter, construction debris, and construction chemicals will be prevented from becoming pollutant sources for stormwater discharges (e.g., screening outfalls, picked up daily). Trash barrels will be lined, dumpsters will be located within lined berms, and chemicals will be stored within a properly designed and lockable storage cabinet.

COMAL COUNTY FLOOD CONTROL STRUCTURE CCEO – COMAL COUNTY ENGINEER'S OFFICE

WPAP Inspection Form

Month:	Week of Month (circle one):	1	2	3	4	5
Date:	-					
BMPs Inspected:						
Rock Berms (monthly)						
□ Construction Entrance (monthly)						
□ Silt Fencing (weekly)						
□ AST Containment Berms (daily)						
□ Trash Cans and Dumpster (daily)						
BMP Defects Detected:						
Defective BMP Type:						
Rock Berms						
Construction Entrance						
□ Silt Fencing (weekly)						
AST Containment Berms						
□ Trash Cans and Dumpster						
Describe BMP Damage:						;
* Locate BM	P Damage on Map *					8.2
* Circle BM	P Damage of Map *					42.2
Attach c	copy of Site Map					4
Suspected Cause of BMP Damage:						
Signature:						
Foreman Signature:						

Notes: _____

0

ATTACHMENT J - Schedule of Interim and Permanent Soil Stabilization Practices

The following measures will be utilized to ensure soil stabilization prior to, during, and after soil stabilization at the proposed Dry Comal dam site:

Table J.1	- Soil	Stabilization	Sequence
-----------	--------	---------------	----------

Activity	Area	Description
Mulching	4 – 10 ac	Following the geologic assessment, the dam footprint will be cleared of vegetation and any trees will be mulched on-site.
Road Preparation	2.6 ac	Ranch access roads will be improved and leveled using several inches of ¾-inch to 3-inch diameter crushed limestone.
Construction Entrance	30' X 20'	A 30' X 20' construction entrance will be installed at the interface between paved county roads and the site's improved ranch road access. The Construction Entrance will be constructed from 3-inch to 6-inch crushed limestone.
Silt Fencing / Rock Berms	per plan	Temporary sediment controls be installed following road improvement and prior to excavation of the dam site.
Natural Vegetation		Outside of the dam footprint, native grasses, forbs, shrubs, and trees will be maintained to the maximum extent practiceable.
BMP Removal	per plan	Subsequent to dam completion, silt fences, rock berms, and construction entrance will be removed. BMPs remnants will be transported and appropriately disposed of off-site. All BMP locations will be restored to original condition and stabilized with mulch if necessary.
Record Keeping		Major grading activities, dates of construction starts and stops, and schedules of stabilization measures will be maintained at the construction field office.

Permanent Stormwater Section (TCEQ-0600)

•

Permanent Stormwater Section

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

REGULATED ENTITY NAME: Comal County Flood Retarding Structure

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

- 1. <u>n/a</u> Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
- 2. <u>n/a</u> These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - ____ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is provided below:
- 3. <u>n/a</u> 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.
- 4. X 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.
 - ____ This site will be used for low density single-family residential development and has 20% or less impervious cover.
 - ____ This site will be used for low density single-family residential development but has more than 20% impervious cover.
 - X This site will not be used for low density single-family residential development.
- 5. <u>n/a</u> 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.

- Ì ۲ ð •
- ATTACHMENT A 20% or Less Impervious Cover Waiver. This 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 found at the end of this form.
- ____ This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ____ This site will not be used for multi-family residential developments, schools, or small business sites.

6. ATTACHMENT B - BMPs for Upgradient Stormwater.

- <u>n/a</u> 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 identified as **ATTACHMENT B** at the end of this form.
- <u>n/a</u> If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT B** at the end of this form.
- <u>n/a</u> If 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, an explanation is provided as **ATTACHMENT B** at the end of this form.

7. ATTACHMENT C - BMPs for On-site Stormwater.

- <u>n/a</u> 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 identified as **ATTACHMENT C** at the end of this form.
- <u>n/a</u> If 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, an explanation is provided as **ATTACHMENT C** at the end of this form.
- 8. <u>n/a</u> **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 provided at the end of this form. Each feature identified in the Geologic Assessment as "sensitive" has been addressed.
- 9. <u>n/a</u> The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
 - The permanent sealing of or diversion of flow from a naturally-occurring "sensitive" or "possibly sensitive" feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring "sensitive" or "possibly sensitive" features on this site.
 - ____ ATTACHMENT E Request to Seal Features. A request to seal a naturallyoccurring "sensitive" or "possibly sensitive" feature, that includes a justification as to why no reasonable and practicable alternative exists, is found at the end of this form. A request and justification has been provided for each feature.
- 10. <u>n/a</u> **ATTACHMENT F Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ

Construction Notes, all man-made or naturally occurring geologic features, all proposed structural measures, and appropriate details must be shown on the construction plans.

- 11. <u>n/a</u> **ATTACHMENT G Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.
- 12. <u>n/a</u> The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - <u>n/a</u> Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.
 - **ATTACHMENT H Pilot-Scale Field Testing Plan.** A plan for pilot-scale field testing is provided at the end of this form.
- 13. <u>n/a</u> **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 provided at the end of this form. 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.

Responsibility for maintenance of permanent BMPs and measures after construction is complete.

- 14. <u>n/a</u> 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.
- 15. <u>n/a</u> 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.

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:

Ibarra- Bianchetta Indita

Print Name of Customer/Agent

Vana-Bionchette

Signature of Customer/Agent

TCEQ-0600 (Rev. 10/01/04)

Recharge Zone Exception Request Form

••••••••

Recharge And Transition Zone

Exception Request Form 30 TAC §213.9 Effective June 1, 1999

Regulated Entity Name: Dry Comal Creek Flood Retarding Structure

- 1. <u>X</u> **ATTACHMENT A Nature of Exception.** A narrative description of the nature of each exception requested is provided as **ATTACHMENT A** at the end of this form. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
- 2. <u>X</u> ATTACHMENT B Documentation of Equivalent Water Quality Protection. Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is provided as ATTACHMENT B at the end of this form.

ADMINISTRATIVE INFORMATION

- 3. \underline{X} One (1) original and three (3) copies of the completed application has been submitted to the appropriate regional office of the TCEQ.
- 4. \underline{X} The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
- 5. \underline{X} The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

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 **RECHARGE AND TRANSITION ZONE EXCEPTION REQUEST FORM** application is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

rdith Ibana-Bianchetla Print Name of Customer/Agent

Signature of Customer/Agent

108

Attachment A

This flood retarding structure does not meet the definition of a typical project associated with WPAP regulations. Therefore, an exception is requested from the requirement to install permanent BMPs for this structure.

The proposed flood retarding structure, which will be constructed of concrete, provides a permanent impervious surface, causing an increase of 7% compared to existing ground cover conditions. Also, the gravel roads that will be installed during construction will be removed from the site, following construction. After construction, the roads will be of natural ground cover with infrequent maintenance traffic on the roadways. The amount of pollutants that will be exposed to the impervious surface and thereby contributing to possible contamination of water will also be limited due to occasional maintenance vehicle traffic on top of the structure. However, this will be minimal and will not cause TSS contamination to the surface water. In addition, the location of the structure is in close proximity to the Edwards Aquifer Transition Zone (approximately 1,500 feet downstream) and will have a reduced impact to the recharge zone.

Attachment B

The project will provide many benefits that provide water quality protection. First, the structure will act as a sedimentation basin for the first flush of contaminants upstream of the site. Draining times for the structure vary from 4.5 hours for the 2 year event to 18.8 hours for the 100 year event and will provide time for containments or sediments to settle out of the surface water. Second, there will be the minimum 150' buffer between the identified sensitive features for the site and the permanent dam footprint, allowing for existing landcover conditions to help filter out any possible contamination. Thirdly, the impounded water behind the structure will provide more recharge water to the aquifer through the sensitive feature. Lastly, the conservation easement downstream of the structure will require any land between the structure and the transition zone to be untouched and therefore, this will contribute to improved water quality for the recharge zone. For all these reasons, the proposed structure provides equivalent water quality protection.

Agent Authorization Form (TCEQ-0599)

0

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

> I Judge Danny Scheel, Print Name

<u>County Judge</u>, Title - Owner/President/Other

of <u>Comal County, Texas</u>, Corporation/Partnership/Entity Name

have authorized <u>Judith Ibarra-Bianchetta</u> Print Name of Agent/Engineer

> of <u>CH2MHILL</u> 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 applicants 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.

Page 1 of 2

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.

Dul vur-Applicant's Signature

<u>7-3+08</u> Date

THE STATE OF <u>Jexas</u> § County of <u>Cornal</u> §

•

•

•

•

BEFORE ME, the undersigned authority, on this day personally appeared <u>ManageScheel</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>31st</u> day of <u>July</u> , 2008
Creptal L. Gattfried
CRYSTALL. GOTTFRIED NOTARY PUBLIC
Notary Public State of Texas My Comm. Exp. 11-15-2011 Crystal L. Gottfried Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 11-15-2011

Application Fee Form (TCEQ-0574)

Texas Commission on Environmental Quality Edwards Aquifer Protection Program **Application Fee Form**

NAME OF PROPOSED REGULATED ENTITY: <u>Dry Comal Creek Flood Retarding Structure</u> REGULATED ENTITY LOCATION: <u>New Braunfels ETJ, Comal County, Texas</u> NAME OF CUSTOMER: <u>Comal County</u> CONTACT PERSON: <u>County Judge Danny Scheel</u> PHONE: <u>830.608.2090</u> (Please Print)							
Customer Reference Number (if issued): CN 600647275 (nine digits)							
Regulated Entity Reference Number (if issued): RN (nine digits)							
Austin Regional Office (3373)							
Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality . Your canceled check will serve as your receipt. This form must be submitted with your fee payment . This payment is being submitted to (Check One):							
🗌 Austin Regional Office 🛛 🛛 San Antonio Regional Office							
Mailed to TCEQ:Overnight Delivery to TCEQ:TCEQ - CashierTCEQ - CashierRevenues Section12100 Park 35 CircleMail Code 214Building A, 3rd FloorP.O. Box 13088Austin, TX 78753							

512/239-0347

Contributing Zone

Site Location (Check All That Apply): X Recharge Zone

Austin, TX 78711-3088

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	21.40 Acres	\$6,500
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

a- BIAND

<u>8 1 08</u> Date

Signature

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

TCEQ-0574 (Rev. 4/25/08)

Transition Zone

Core Data Form (TCEQ-10400)



••••

• 0 • •

TCEQ Core Data Form

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

SECTION	VI: Ge	neral Information		, p						
1. Reason fo	or Submis	sion (If other is checked please of	lescribe in	space	provid	ed)			a large architecture	
New Pe	New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)									
Renewa	Renewal (Core Data Form should be submitted with the renewal form)									
2. Attachme	nts	Describe Any Attachments: (e	x. Title V A	pplicatio	on, Was	te Tran	sporter Application,	etc.)		
⊠Yes	□No	WPAP Edwards Aquifer	Rechar	ge Zo	one A	pplic	ation Forms			
3. Customer	Referenc	e Number (if issued)	Follow this			4. F	Regulated Entity	Refere	nce Numbe	er (if issued)
CN 6006	CN 600647275 for CN or RN numbers in Central Registry** RN									
SECTION	NII: C	ustomer Information								
5. Effective	Date for C	ustomer Information Updates (n	nm/dd/yyy	ry) (07/29	/200	8			
6. Customer	Role (Pro	posed or Actual) - as it relates to the F	Regulated E	Entity list	ted on t	his form	n. Please check onl	y <u>one</u> of	the following:	6
Owner		Operator		wner &	Opera	tor				
	nal Licens	ee 🔲 Responsible Party		oluntary	y Clear	nup Ap	plicant 🗌 🗌	Other:		
7. General C	ustomer l	nformation								
New Cus	tomer		late to Cu	stomer	Inform	ation	□ Ch	ange in	Regulated I	Entity Ownership
		me (Verifiable with the Texas Secr						Change	-	, ,
**If "No Cha	nge" and	Section I is complete, skip to Se	ction III -	Regula	ated E	ntity Ir	nformation.			
8. Type of C	ustomer:	Corporation	lr	ndividua	al		Sole Prop	prietorst	nip- D.B.A	
City Gove	ernment	County Government	F	ederal	Gover	ment	State Gov	vernmei	nt	
Other Go		General Partnership		imited I	~		Other:			
		me (If an individual, print last name fir			<u>If</u>	new Cu	istomer, enter pre	vious Cu	ustomer	End Date:
Comal Co		······································				low				
Comarce										
10. Mailing	195 D	avid Jonas Drive								
Address:										
Terri Mit Madri A	City	New Braunfels	State	ΤX		ZIP	78132		ZIP + 4	3760
11. Country	Mailing In	formation (if outside USA)			12. E-	Mail A	ddress (if applicat	ole)		
	<u> </u>	(,					co.comal.tx.u	,		
13. Telephor	ne Numbe	r 14	. Extensio	on or C	ode		15. Fax	Numbe	r (if applical	b le)
()	-						()	-	
16. Federal Tax ID (9 digits) 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number(if applicable) 19. TX SOS Filing Number (if applicable)										
20. Number	of Employ	rees					21. In	depend	ently Own	ed and Operated?
0-20	21-100	☐ 101-250 ☐ 251-500	🗌 501 ar	nd high	er				/es	No No
SECTION III: Regulated Entity Information										
		Entity Information (If 'New Regu		y" is se	elected	below	this form should	be acco	mpanied by	a permit application)
New Regulated Entity 🔲 Update to Regulated Entity Name 🔲 Update to Regulated Entity Information 🛛 No Change** (See below)										
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.										
23. Regulate	23. Regulated Entity Name (name of the site where the regulated action is taking place)									
Dry Coma	Dry Comal Creek Flood Retarding Structure									

24. Street Address of the Regulated Entity:											
(No P.O. Boxes)	City			State		ZIP				ZIP + 4	
25. Mailing Address:	Con	Comal County Engineer's Office									
	195	David Jonas	Drive								
	City	New Braun	fels	State	TX	ZIP	78	132		ZIP + 4	3760
26. E-Mail Address:	bo	ydro@co.com	nal.tx.	us							I
27. Telephone Numb	er			28. Extension	or Code	29	9. Fax I	Number (if a	pplicable)		
(830) 608-2090					(830) 608-2009						
30. Primary SIC Code (4 digits) 31. Secondary SIC			ry SIC C	ode (4 digits) 32. Primary NAICS (5 or 6 digits)		6 Code		33. Secondary NAICS Code (5 or 6 digits)			
1622 1623					237990				237310		
34. What is the Prima	ary Busi	iness of this enti	ty? (Pl	ease do not repe	eat the SIC or N	IAICS d	escriptio	on.)			
Reduce peak dise	charge	s for a tributa	ary to I	Dry Comal	Creek						
	Question	ns 34 – 37 addres	ss geogr	aphic location	n. Please refe	er to th	ne insti	ructions for	r applica	bility.	
35. Description to Physical Location: Located on North side of IH 35 and FM 482 approximately 1.5 miles Northwest of the intersection of Krueger and FM 482.								est of the			
	mite		uegei		2.		State			Nearer	st ZIP Code
36. Nearest City				County							
New Braunfels				Comal Tx				78132			
	Decimal				38. Longi	tude (\	N) In	Decimal:	98.20)51667	
Degrees	Minutes		Seconds		Degrees		Minutes			econds	
29	40 6.81				98 12				3	1.03	
39. TCEQ Programs ar updates may not be made. If	nd ID Nu your Prog	umbers Check all Pr ram is not listed, chec	rograms an k other and	d write in the perm write it in. See th	its/registration nu e Core Data Form	imbers t n instruc	hat will b tions for	e affected by th additional guid	ne updates ance.	submitted	on this form or the
Dam Safety			Edwards Aquifer			Industrial Hazardous Waste			🗌 Mu	nicipal Solid Waste	
New Source Review	– Air	OSSF		Petroleum Storage Tank			D PWS			🗌 Slu	dge

Title V – Air

Waste Water

SECTION IV: Preparer Information

40. Name:	: Judith Ibarra-Bainchetta, PE, CFM				Associate Project Manager
42. Telephon	e Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(210)377-3081		257	(210)349-8944	Judith.Ib	arra-Bianchetta@ch2m.com

Wastewater Agriculture

Used Oil

Water Rights

Tires

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 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	CH2MHILL	Job Title:	Associate Project Manager			
Name(In Print) :	Judith Ibarra-Bianchetta		Phone:	(210)377-3081		
Signature:	J. 12ma-Bränchetth		Date:	8-1.2008		

Stormwater

Voluntary Cleanup

Utilities

Other: