Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Jon Niermann, Commissioner Richard A. Hyde, P.E., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 9, 2015

Mr. Andrew L. Baumgardner 1604 Kitty Hawk, LTD. 150 N. Loop 1604 East, Suite 202 San Antonio, Texas 78232 NOV 16 2015

COUNTY ENGINEER

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: Oak Run Commercial Unit 2B; located approximately 275 feet southeast of the intersection of Oak Run Pkwy and SH 46 on SH 46; New Braunfels, Texas

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

Investigation No. 1275847 Regulated Entity No. RN106003163; Additional ID No. 13-15090102

Dear Mr. Baumgardner:

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 Pawelek & Moy, Inc. on behalf of 1604 Kitty Hawk, LTD. on September 1, 2015. Final review of the WPAP was completed after additional material was received on October 14 and October 21, 2015. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected 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 commercial development consists of 2.986 acres with 2.058 acres (68.92 percent) of impervious cover. The proposed site will consist of two retail buildings and associated parking and sidewalk areas. Project wastewater will be disposed of by conveyance to the existing Gruene Road Water Recycling Center owned by New Braunfels Utilities.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a computer controlled cartridge filter system, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be installed to treat stormwater runoff. The required Total Suspended Solids (TSS) treatment for this project is 1,847 pounds generated from the 2.058 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

A computer controlled cartridge filter system will be installed to treat the 2.058 acres of on-site impervious cover and 0.001 acres of off-site impervious cover. The water will drain from the site into a sedimentation basin and then through the filtration basin. See technical details listed below:

| ВМР | Watershed Area | Impervious Cover within drainage area (ac) | Required annual TSS removal (lbs) | Designed annual TSS removed (lbs) | Required Water Quality Volume (ft ³) | Actual Water Quality Volume (ft³) | Required Filter Cartridges | Actual Filter Cartridges |
|---------------------|--------------------|--|---|---|--|---|----------------------------------|--------------------------------|
| Computer controlled | A1+B1+C1 Onsite | 2.045 | 1,836 | 1,849 | 8,747 | 8,856 | 20.13 | 21 |
| filter system | E1 Uncaptured | 0.013 | 11 | | | | | |
| Total | | 2.058 | 1.847 | 1.849 | | | | |

GEOLOGY

According to the geologic assessment included with the application, the site is located within the cyclic and marine members of the Person Formation. Six non-sensitive manmade features were noted in the assessment by the project geologist. The San Antonio Regional Office site assessment conducted on September 24, 2015 revealed that the site was generally as described in the application.

SPECIAL CONDITIONS

- I. The permanent pollution abatement measure shall be operational prior to occupancy of the facility.
- II. All sediment and/or media (including filter cartridges) removed from the permanent pollution abatement measure during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

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, 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.

Mr. Andrew L. Baumgardner November 9, 2015 Page 3

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.

Mr. Andrew L. Baumgardner November 9, 2015 Page 4

- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. No wells exist on the site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 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

Mr. Andrew L. Baumgardner November 9, 2015 Page 5

initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

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

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G., of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely,

Lynn Bumguardner, Water Section Manager

San Antonio Region Office

Texas Commission on Environmental Quality

LB/DPM/eg

cc:

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625

Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

Mr. Daryl D. Pawelek, P.E., Pawelek & Moy, Inc.

Mr. Garry Ford, P.E., City of New Braunfels

Mr. Thomas H. Hornseth, P.E., Comal County Engineer

Mr. Roland Ruiz, Edwards Aquifer Authority TCEQ Central Records, Building F, MC 212



CIVIL ENGINEERING & CONSULTING SERVICES

- RESIDENTIAL DEVELOPMENT
- SITE DEVELOPMENT
- Public Works
- UTILITIES

October 21, 2015

Ms. Dianne Pavlicek-Mesa, P.G. TCEQ San Antonio Regional Office – Region 13 14250 Judson Rd. San Antonio, Texas 78233-4480 RECEIVED

NOV 05 2015

COUNTY ENGINEER

Do:

Response to TCEQ Comments dated October 15, 2015

Edwards Aquifer, Comal County

NAME OF PROJECT: Oak Run Commercial, Unit 2B; Located approximately 275 feet southeast of the intersection of Oak Run Parkway and SH 46 on SH 46; New Braunfels, Texas.

TYPE OF PLAN: Request for the Water Pollution Abatement Plan (WPAP);

30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer;

EAPP File No. 13-14032501

Dear Ms. Pavlicek-Mesa,

Pawelek & Moy, Inc. (P&M) has addressed the comments by the TCEQ dated October 15, 2015 for the above mentioned project. P&M has taken the following actions with regards to the comments:

Comment Response

- 2 Updated Agent Authorization and Core Data Forms.
- 3 Updated Core Data Form.

Please call if you have questions regarding these responses. Thank you for your assistance.

Sincerely.

Daryl D. Pawelek, P.E.

Attachments:

- Agent Authorization Form
- Core Data Form

cc: Andrew L. Baumgardner - 1604 Kitty Hawk, LTD.

F:\1505.02 - OAKRUN COMMERCIAL UNIT 2B\DWG\WPAP\TCEQRESPONSELETTER-10-21-15.DOC



TCEQ Use Only

TCEQ Core Data Form

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

| | | eneral Infor | | | | | | | • | | | |
|--------------------------|--------------------|---------------------------------|----------------------|-----------------------|------------|----------------------------------|--------------------------------------|---------|---------------------------------|----------------|----------------|-----------|
| | | ssion (If other is | | | | | - 1 | eith i | the program applicat | ion l | | |
| | | | | | | | | | the program applicat | ion.) | | - |
| | 100 | Data Form should | 1 | | _ | | = | Oth | | onos Numb | er (if inqued) | |
| Z. Customer | Referen | ce Number (if iss | sueu) | Follow the | | | 3. | Rec | gulated Entity Refer | erice Numbi | er (II Issuea) | |
| CN | | p (ii) | | | al Regis | | I | RN | | | | |
| SECTION | N II: C | ustomer In | formation | | | | | | | | | |
| 4. General C | ustomer | Information | 5. Effective I | Date for Co | ustome | r Inform | nation | ı Up | dates (mm/dd/yyyy) | | | |
| New Cus □Change in | | ame (Verifiable wi | - | pdate to Cecretary of | | | | troll | Change i | | Entity Owners | hip |
| The Custo | mer Na | me submitted | here may b | e update | ed auto | omatic | ally | bas | sed on what is o | urrent and | active with | h the |
| Texas Sec | cretary o | of State (SOS) | or Texas Co | omptrolle | er of F | Public . | 4ccc | oun | ts (CPA). | | | |
| 6. Customer | Legal Na | me (If an individua | al, print last name | first: eg: Do | e, John) | | <u>//</u> | nev | v Customer, enter pre | vious Custom | er below: | |
| 1604 Kitt | y Hawk, | LTD., a Texas | limited partr | nership | | | | | | | | |
| 7. TX SOS/C | | Tax ID (11 digits) 5182941 | | | 9 | | deral Tax ID (9 digits) 0-4816831 | 10. DUN | 10. DUNS Number (if applicable) | | | |
| 11. Type of | ion | ☐ Individual | | | | Partnership: ☐ General ☒ Limited | | | | | | |
| Government: | ☐ City ☐ | County 🔲 Federal [| State Other | |] Sole F | Propriete | rship | | Other: | | | |
| 12. Number ★ 0-20 | of Emplo 21-100 | yees 101-250 | 251-500 | <u></u> 501 | and hig | her | | 3. lr | ndependently Owne es | | ited? | |
| 14. Custome | er Role (P | roposed or Actual) | - as it relates to t | he Regulate | d Entity | listed on | this fo | orm. | Please check one of the | e following: | | |
| | nal Licen | Opera | tor onsible Party | - | | & Opera ry Clear | | oplic | cant Other: | | | |
| | 150 N. | _oop 1604 East, | Suite 202 | | | | | | | | | |
| 15. Mailing | | | | | | | | | | | - | |
| Address: | City | San Antonio | | State | TX | | ZIP | 7 | 78232 | ZIP + 4 | 1259 | |
| 16. Country | Mailing Ir | formation (if outs | ide USA) | | | 17. E | Mail | Add | lress (if applicable) | | | |
| | | | | | | | | | | | | |
| 18. Telephor | ne Numbe | r | | 19. Extens | ion or | Code | | | 20. Fax Numb | er (if applica | ble) | |
| (210)30 | 8 - 6288 | | | - | | | | | (210)979 | 6126 | | |
| SECTION | VIII: I | Regulated E | ntity Info | rmation | 1 | | | | | | | |
| 21. General F | Regulated | Entity Informati | on (If 'New Re | gulated En | tity" is s | elected | below | v this | s form should be acc | ompanied by | a permit appi | lication) |
| X New Regu | ulated Ent | ty Update | to Regulated E | ntity Name | | Update | to Re | gula | ated Entity Information | n | | |
| *** | | | | | ted in | order | to m | eel | t TCEQ Agency | Data Stand | dards (remo | oval |
| | | endings such ame (Enter name | | | nd action | ic taking | nlace | 1 | | | | |
| | - | ercial, Unit 2B (| | are regulate | u activiti | is takiiit | piace | .) | | | | |
| | | , | , | | | | | | | | | |

| 23. Street Address o | | | | | | | | - 1- | | | | | |
|---|----------------|-------------------------------|----------|------------------|----------------|-------------------|---------------|-------------|------------------------------|--------------------|--------|-------------|------|
| the Regulated Entity (No PO Boxes) | City | | | State | 1 | T | ZIP | | 750 | ZIP + 4 | 1 | | |
| 24. County | Com | al | | Ottato | | | | | | 1 | | | |
| | | Enter Physical | Locatio | n Descriptio | on if no | street a | nddress | is provid | ded | | 100 | 2011 | |
| 25. Description to Physical Location: | | Approximately | April 1 | | | | Traff of | | t | and SH 46 | 3 | | |
| 26. Nearest City | | | | | | | | State | 119 H | N. | lea | rest ZIP C | ode |
| | New Brau | nfels | ap | | | | tions is | | Texas | | | 78132 | 1,3 |
| 27. Latitude (N) In I | Decimal: | 29.720 | 0 | | | 28. Lor | ngitude (| W) In | Decimal: | 98.164 | 4 | | |
| Degrees | Minutes | S | Secon | nds | 2 | Degrees | | | Minutes | | | Seconds | 2-1 |
| 29 | | 43 | | 12 | | 98 | } | | 09 | | 900 | 52 | |
| 29. Primary SIC Code | e (4 digits) | 30. Secondary | SIC Cod | e (4 digits) | 31. P | rimary digits) | NAICS C | ode | 32. Se (5 or 6 d | condary N | IAI | CS Code | 1 6 |
| 1542 | | | | | 2116 | | 6220 | | | | 14 7,2 | | |
| 33. What is the Prima Commercial Dev | ary Busines | s of this entity? | (Do not | repeat the SIC o | or NAICS | description | n.) | | | | | | 1 |
| John Marian Jan | | N. 1604 East, S | uite 202 | | - 1 | 14 | | | | | | | - |
| 34. Mailing | | | | | | | | | | | | | |
| Address: | Ci | ty San Anto | nio | State | TX | | ZIP 78232 | | 232 | ZIP+ | 4 | 1259 | |
| 35. E-Mail Addr | ess: | | | , | | | | | | | | | |
| 36. Tel | ephone Nun | nber | | 37. Extens | ion or C | ode | | 38 | B. Fax Numb | oer <i>(if app</i> | lica | able) | |
| (21 | 0)308-628 | 8 | | _ | × ' ' ' ' ' ' | N. and | | | (210) | 979-612 | 6 | | |
| 39. TCEQ Programs and form. See the Core Data F | | | | write in the pe | ermits/reg | gistration | numbers | that will b | e affected by | the update | S SI | ıbmitted on | this |
| ☐ Dam Safety | | ☐ Districts ☐ Edwards Aquifer | | | | | Emissions | y Air | ☐ Industrial Hazardous Waste | | | aste | |
| | | | 1 | WPAP | | | | | | | | | |
| ☐ Municipal Solid Was | te Nev | w Source Review A | ir 🔲 (| DSSF | - | ☐ Petroleum Sto | | | n Storage Tank PWS | | | | |
| Sludge | Sto | rm Water | | Title V Air | | Tires | | | | ☐ Used Oil | | | |
| | | | | | | | | | | | | | |
| ☐ Voluntary Cleanup | Wa | ste Water | | Vastewater A | griculture | | Water Rig | hts | | Other: | - | | |
| SECTION IV: | Prenare | r Informati | on | | | | A THE RESERVE | 1 | | | | | |
| | D. Pawelek | | Fre m | | | 41. T | itle: | Civil E | ngineer | | - | | |
| 42. Telephone Number | er 43 | 3. Ext./Code | 44. Fa | ax Number | | 45. | E-Mail A | ddress | | | | | |
| (830) 629-2563 | | - | |) 629-256 | 64 | | daryl.pa | awelek(| @sbcglobal | .net | | | |
| SECTION V: | Authoriz | ed Signatu | re | | | | | | | | | | |
| 46. By my signature be signature authority to suidentified in field 39. | elow, I certif | y, to the best of m | y knowl | | | | | | | | | | |
| Company: F | awelek & N | Moy, Inc. | | | Job | Title: | Pro | ject Eng | gineer | | | | |
| 151 151 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Daryl D. Pa | welek | | | | | | Ph | one: (| (830)629 | - 2 | 563 | |
| Signature: | Denta | DORC | | | | | | Da | ite: | 10-20 | -/ | 5 | |
| | | • | | | | | | | -1. | | | | |

Agent Authorization Form

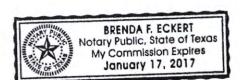
For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999

| I . | Andrew L. Baumgardner |
|---------------------|---|
| | Print Name |
| President of HTAC h | Kitty Hawk, Inc., a Texas corporation, the General Partner of 1604 Kitty Hawk, Ltd. |
| | Title - Owner/President/Other |
| of | 1604 Kitty Hawk, LTD., a Texas limited partnership |
| | Corporation/Partnership/Entity Name |
| have authorized | Daryl D. Pawelek |
| | Print Name of Agent/Engineer |
| of | Pawelek & Moy, Inc. |
| | Print Name of Firm |

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

I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 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.
- 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:

Breida & Eckert

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: _____



CIVIL ENGINEERING & CONSULTING SERVICES

- Residential Development
- SITE DEVELOPMENT
- Public Works
- UTILITIES

October 14, 2015

Ms. Dianne Pavlicek-Mesa, P.G. TCEQ San Antonio Regional Office – Region 13 14250 Judson Rd. San Antonio, Texas 78233-4480 RECEIVED

OCT 2 2 2015

COUNTY ENGINEER

Re.

Response to TCEQ Comments dated October 2, 2015

Edwards Aquifer, Comal County

NAME OF PROJECT: Oak Run Commercial, Unit 2B; Located approximately 275 feet southeast of the intersection of Oak Run Parkway and SH 46 on SH 46; New Braunfels, Texas.

TYPE OF PLAN: Request for the Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aguifer;

EAPP File No. 13-14032501

Dear Ms. Pavlicek-Mesa,

Pawelek & Moy, Inc. (P&M) has addressed the comments by the TCEQ dated October 2, 2015 for the above mentioned project. P&M has taken the following actions with regards to the comments:

Comment Response

- 1 Updated forms, recorded plat and deed are included with this resubmittal. Forms included are the General Information Form, Agent Authorization Form, Core Data Form and the Inspection, Maintenance, Repair and Retrofit Plan.
- The number of cartridges, which is 21, has been added to the Inspection, Maintenance, Repair and Retrofit Plan and is also noted in the Plan View on the P1 previously submitted.

Please call if you have questions regarding these responses. Thank you for your assistance.

Sincerely,

Daryl D. Pawelek, P.E.

Attachments:

- Recorded Plat
- Deed
- General Information Form
- Agent Authorization Form
- Core Data Form
- Inspection, Maintenance, Repair and Retrofit Plan

CC:

Andrew L. Baumgardner – 1604 Kitty Hawk, LTD.

Rob Eversberg - NB Inv Jt Venture

F:\1505.02 - OAKRUN COMMERCIAL UNIT 2B\DWG\WPAP\TCEQRESPONSELETTER-10-14-15.DOC

2015 OCT 14 PM 4: 38

General Information Form

Texas Commission on Environmental Quality

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

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

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

Signature

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

| Pri | nt Name of Customer/Agent: <u>Daryl</u> D. Pawelek (Ag | gent) | |
|-----|--|-----------------------------|---------|
| Da | te: <u>/0-/4-/5</u> | | |
| Sig | nature of Customer/Agent: | | |
| 5 | and PAR | | 2015 |
| D | roject Information | | 5 007 |
| | | | - |
| 1. | Regulated Entity Name: Oak Run Commercial, Uni | t 2B | .12 |
| 2. | County: Comal | | =2 |
| 3. | Stream Basin: Blieder's Creek | | after a |
| 4. | Groundwater Conservation District (If applicable) | : Edwards Aquifer Authority | 20 |
| 5. | Edwards Aquifer Zone: | | |
| | X Recharge Zone Transition Zone | | |
| 6. | Plan Type: | | |
| | X WPAP | AST | |
| | SCS | UST | |
| | Modification | Exception Request | |
| | | | |

1 of 4

| 7. | Customer (Applicant): | |
|-----|---|--|
| | Contact Person: Andrew L. Baumgardner Entity: 1604 Kitty Hawk, LTD. Mailing Address: 150 N. Loop 1604 East, Suite 202 City, State: San Antonio, Texas Telephone: (210)308-6288 Email Address: abaumgardner@jw.com | Zip: <u>78232</u> FAX: <u>(210)</u> 979-6126 |
| 8. | Agent/Representative (If any): | |
| | Contact Person: Daryl D. Pawelek, P.E. Entity: Pawelek & Moy, Inc. Mailing Address: 130 W. Jahn St. City, State: New Braunfels, Texas Telephone: (830) 629-2563 Email Address: daryl.pawelek@sbcglobal.net | Zip: <u>78130-7640</u> FAX: <u>(830)</u> 629-2564 |
| 9. | Project Location: | |
| | The project site is located inside the city limits of the project site is located outside the city limits jurisdiction) of The project site is not located within any city's limits. | but inside the ETJ (extra-territorial |
| 10. | X The location of the project site is described belo detail and clarity so that the TCEQ's Regional st boundaries for a field investigation. | ow. The description provides sufficient aff can easily locate the project and site |
| | The site is located approx. 275 ft southeast of the int | ersection of Oak Run Pkwy and SH 46 on SH 46. |
| 11. | X Attachment A – Road Map. A road map showing project site is attached. The project location and the map. | ng directions to and the location of the distribution site boundaries are clearly shown on |
| 12. | X Attachment B - USGS / Edwards Recharge Zone USGS Quadrangle Map (Scale: 1" = 2000') of the The map(s) clearly show: | • Map. A copy of the official 7 ½ minute Edwards Recharge Zone is attached. |
| | X Project site boundaries. X USGS Quadrangle Name(s). X Boundaries of the Recharge Zone (and Trans X Drainage path from the project site to the boundaries. | ition Zone, if applicable). oundary of the Recharge Zone. |
| 13. | X The TCEQ must be able to inspect the project si Sufficient survey staking is provided on the project the boundaries and alignment of the regulated a features noted in the Geologic Assessment. | te or the application will be returned. ect to allow TCEQ regional staff to locate |
| | \overline{X} Survey staking will be completed by this date: $\underline{0}$ | 8/24/2015 |

| 14. X | na | tachment C – Project Description. Attached at the end of this form is a detailed rrative description of the proposed project. The project description is consistent roughout the application and contains, at a minimum, the following details: |
|---------|-----------------------|--|
| | X X X X X | Area of the site |
| 15. Ex | | g project site conditions are noted below: |
| | | Existing commercial site Existing industrial site Existing residential site Existing paved and/or unpaved roads Undeveloped (Cleared) Undeveloped (Undisturbed/Uncleared) (Routine Maintenance/Shredding-Proposed Lot 1) Other: Detention Pond on Proposed Lot 2 (constructed under WPAP approved 11/24/2010; EAPP 2947.00) & Sanitary Sewer on Proposed Lot 1 and 2 (constructed under SCS approved 12/13/2010; EAPP 2947.01) Dited Activities |
| 16. X | | m aware that the following activities are prohibited on the Recharge Zone and are not oposed for this project: |
| | (1) | Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control); |
| | (2) | New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3; |
| | (3) | Land disposal of Class I wastes, as defined in 30 TAC §335.1; |
| | (4) | The use of sewage holding tanks as parts of organized collection systems; and |
| | (5) | New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities). |
| | (6) | New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading. |
| 17. N/A | | n aware that the following activities are prohibited on the Transition Zone and are proposed for this project: |
| | (1) | Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control); |
| | (2) | Land disposal of Class I wastes, as defined in 30 TAC §335.1; and |
| | | |

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

Administrative Information

| 18. Th | e fee for the plan(s) is based on: |
|--------|--|
| X | For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur. |
| | For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines. |
| | For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems. |
| | A request for an exception to any substantive portion of the regulations related to the protection of water quality. |
| | A request for an extension to a previously approved plan. |
| 19. X | Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's: |
| | TCEQ cashier Austin Regional Office (for projects in Hays, Travis, and Williamson Counties) San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties) |
| 20. 🗵 | Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office. |
| 1. 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 Evecutive Director |

Agent Authorization Form

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

| i . | Andrew L. Baumgardner | | | | | | |
|-----------------|--|--|--|--|--|--|--|
| - | Print Name | | | | | | |
| | President | | | | | | |
| of | Title - Owner/President/Other 1604 Kitty Hawk, LTD., a Texas limited partnership By: HTAC Kitty Hawk, Inc., a Texas corporation, its General Partner | | | | | | |
| | Corporation/Partnership/Entity Name | | | | | | |
| have authorized | Daryl D. Pawelek | | | | | | |
| | Print Name of Agent/Engineer | | | | | | |
| of | Pawelek & Moy, Inc. | | | | | | |
| | Print Name of Firm | | | | | | |

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

I also understand that:

- 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.
- 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.
- 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.

Applicant's Signature

Date Date

THE STATE OF TEXAS §

SIGNATURE PAGE:

County of BEXAR §

BEFORE ME, the undersigned authority, on this day personally appeared Mind behavior 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 12th day of 1

on this day of UNO

NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10-16-2016

OLGA SAN MIGUEL
Notary Public, State of Texas
My Commission Expires
October 16, 2018



TCEQ Core Data Form

| TCEQ | Use | Only |
|------|-----|------|
|------|-----|------|

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

| | | eral Infor | | | | | | | | | | |
|--------------------------|---------------------|--------------------------|---------------------|--|------------------------------|-------------------|------------------------------|----------------------------------|----------------------------|---------------------------------|--|--|
| | | on (If other is | | | | , | | | r | | | |
| | | | | | | | | | rogram application | n.) | | |
| | | ta Form should | | | | | | her | ad Catity Defeat | Ni | G. G. C. | |
| 2. Customer | Reference | Number (if iss | uea) | | w this link to N or RN nu | | 3. RE | eguiai | ed Entity Refere | nce Numbe | er (If Issued) | |
| CN | | 11 | | | entral Regis | | RN | RN | | | | |
| SECTION | H: Cu | stomer In | <u>formation</u> | | | | | | | | | |
| 4. General Cu | ustomer Inf | formation | 5. Effective I | Date for Customer Information Updates (mm/dd/yyyy) | | | | | | | | |
| New Cust □ Change in | | e (Verifiable wit | _ | | o Custome of State o | | | ller of | Change in Public Accounts) | 0 | Entity Ownership | |
| The Custon | mer Nam | e submitted | here may b | e upd | ated aut | omatica | ally ba | sed | on what is cu | rrent and | active with the | |
| Texas Sec | retary of | State (SOS) | or Texas Co | omptro | oller of F | Public A | ccou | nts (| CPA). | | y . | |
| 6. Customer | Legal Nam | e (If an individua | l, print last name | first: eg. | Doe, John |) | If ne | w Cus | stomer, enter previ | ous Custom | er below: | |
| | | , a Texas limi | | | oral Darts | | | | | | | |
| 7. TX SOS/CF | | | | its General Partner Tax ID (11 digits) | | | | | I Tax ID (9 digits) | 10. DUNS Number (if applicable) | | |
| 11. Type of C | ustomer: | ☐ Corporati | on | ☐ Individual | | | | Partnership: ☐ General ☒ Limited | | | | |
| Government: | City Co | ounty 🔲 Federal 🛭 | State Other | | Sole | Proprieto | ship | | Other: | | | |
| 12. Number o | f Employe 21-100 | es 101-250 | 251-500 | □ 5 | 01 and hig | her | 13. | | endently Owned | and Opera | ited? | |
| 14. Customer | Role (Prop | osed or Actual) - | as it relates to t | he Regu | lated Entity | listed on t | his form | . Pleas | se check one of the | following: | | |
| | nal Licensee | Opera | tor nsible Party | [| | & Operatory Clean | | icant | ☐Other: | | | |
| | 150 N. Lo | op 1604 East, | Suite 202 | | | | | | | | | |
| 15. Mailing | | | V-1 | | | | | | | | | |
| Address: | City S | San Antonio | | Sta | te TX | | ZIP | 7823 | 2 | ZIP + 4 | 1259 | |
| 16. Country N | | rmation (if outsi | ide USA) | | | 17. E-N | Mail Address (if applicable) | | | | | |
| | 3 | | | | | | | | | | | |
| 18. Telephone | e Number | | | 19. Exte | ension or | Code | | | 20. Fax Numbe | r (if applica | ble) | |
| (210) 308 | 3 - 6288 | | | | - | | | | (210) 979- | 6126 | | |
| SECTION | III: Re | gulated E | ntity Info | rmati | ion | | | | | | | |
| 21. General R | egulated E | ntity Informati | on (If 'New Re | gulated | Entity" is s | selected L | elow th | nis for | m should be acco | mpanied by | a permit application) | |
| X New Regul | lated Entity | ☐ Update | to Regulated E | ntity Na | me 🗌 | Update t | o Regu | lated | Entity Information | | | |
| | | y Name sub dings such | | | | order t | o mee | et TC | EQ Agency D | ata Stand | dards (removal | |
| | | ne (Enter name | | | | is taking | place.) | × | | | | |
| Oak Rui | n Commer | cial , Unit 2B (| Lot 1) | | | | | | | | | |

| 23. Street Address of the Regulated Entity: | | | - | | | | | | | | | |
|--|------------------------------|------------------------------------|---------|---------------------------------------|---------------------|-----------------------|--------------------|-------------------------|--------------------------------|---------------------------------|------------------------------|--|
| (No PO Boxes) | City | | | State | | 7 | IP. | | | ZIP + 4 | | |
| 24. County | | | | | | | | | | | | |
| | | Enter Physic | al Loca | tion Descriptio | n if no | street a | ddress i | s provide | d. | | | |
| 25. Description to Physical Location: | | Approximatel | y 275 f | eet southeast | of the ir | ntersect | ion of C | ak Run P | arkway a | and SH 46 | | |
| 26. Nearest City | | | | | | | | State | | Nea | rest ZIP Code | |
| N | ew Braun | fels | | | | | | Те | xas | | 78132 | |
| 27. Latitude (N) In De | cimal: | 29.72 | 200 | | | 28. Lon | gitude (| W) In D | ecimal: | 98.1644 | | |
| Degrees | Minutes | | Se | conds | | Degrees | | M | linutes | | Seconds | |
| 29 | 4 | 3 | | 12 | | 98 | | | 09 | | 52 | |
| 29. Primary SIC Code (4 | digits) | 30. Secondar | y SIC C | ode (4 digits) | 31. P (5 or 6 | | NAICS C | ode | 32. Se (5 or 6 d | condary NAI | CS Code | |
| 1542 | | | | | T | - | 5220 | | 1 | | | |
| 33. What is the Primary Commercial Develo | Business opment - I | of this entity | ? (Do I | not repeat the SIC o | or NAICS (| description | .) | | | | | |
| | 150 N | I. 1604 East, | Suite 2 | 02 | | | × | | | | | |
| 34. Mailing | | | | | | | - | | | | | |
| Address: | Cit | y San Ant | onio | State | TX | | ZIP | 78232 | 2 | ZIP + 4 | 1259 | |
| 35. E-Mail Addres | | | | | | - Agii | | | - | | | |
| | hone Num | ber | | 37. Extensi | ion or C | ode | | 38. 1 | Fax Numb | per (if applica | able) | |
| | 308-628 | | | - | | | | | | 979-6126 | | |
| 39. TCEQ Programs and form. See the Core Data For | ID Numbe | ers Check all Pro | | | ermits/reg | istration | numbers | that will be | | | ubmitted on this | |
| ☐ Dam Safety | Distr | | | Edwards Aquif | er | ☐ Emissions Inventory | | | Air Industrial Hazardous Waste | | | |
| | | | | WPAP | | | | | | | | |
| ☐ Municipal Solid Waste | ☐ New | Source Review | Air [| OSSF | | Petroleum Storage Tan | | | ank [| ik PWS | | |
| Sludge | Stor | m Water | | Title V Air | | Tires | | | | Used Oil | Oil | |
| | | | | - | | | | | | | | |
| ☐ Voluntary Cleanup | Was | te Water | - - | Wastewater Ag | griculture | 10, | Water Rig | hts | | Other: | | |
| SECTION IV: P | reparer | Informat | tion | | | | - | | | | | |
| 40. Name: Daryl D. | Pawelek | | | | | 41. Ti | tle: | Civil Eng | gineer | | | |
| 42. Telephone Number | 43 | . Ext./Code | 44 | Fax Number | | 45. [| E-Mail A | ddress | | | | |
| (830) 629-2563 | | - | (8 | 330) 629 -256 | 64 | | daryl.pa | welek@s | sbcglobal | l.net | | |
| SECTION V: A | uthoriz | ed Signati | ure | | | | | | | | | |
| 46. By my signature belosignature authority to subsidentified in field 39. | w, I certify nit this for | , to the best of m on behalf of | my kno | wledge, that the ty specified in S | e inform Section | ation pro | ovided in 6 and/or | this form as require | is true and for the t | d complete, a apdates to the | nd that I have ID numbers | |
| | welek & N | loy, Inc. | | | Joh | Title: | Pro | ject Engir | neer | * | | |
| | ryl D. Pav | | - | | | | 1 | Phor | ne: | (830)629-2 | 563 | |
| Signature: | Quel S | Delle | 2 | | | | | Date | The bridge | 10-14 | 1-15 | |

Attachment "G" Inspection, Maintenance, Repair and Retrofit Plan for Aqualogic Cartridge Filtration System

PROJECT NAME:

Oak Run Commercial, Unit 2B

SITE LOCATION:

Approx. 275 ft southeast of the intersection of Oak Run Pkwy and

SH 46 on SH 46

CITY, STATE:

New Braunfels, Texas

AQUALOGIC CARTRIDGE FILTRATION SYSTEM

Proper Operation and Maintenance for the Aqualogic Cartridge Filtration System (21 cartridges) shall be in accordance with the attached Schedule A provided by Aqualogic.

Documentation and Recordkeeping:

All scheduled inspection and maintenance measures made to the permanent BMPs must be documented clearly on the Maintenance and Inspection Form included with this attachment for the respective BMP, showing inspection/maintenance/repair/and retrofit (if necessary) measures performed, date and person responsible for inspection and maintenance. Documentation of the maintenance shall clearly show the maintenance procedure(s) made, date and person responsible for the maintenance procedure. No changes to the permanent BMP's shall be made unless approved by TCEQ and the Design Engineer. All documentation and recordkeeping shall be retained onsite with the WPAP.

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

Responsible Party for Maintenance

Address
City, State Zip
Telephone Number

Signature of Responsible Party

Print Name of Responsible Party

1604 Kitty Hawk, LTD.,

150 N. Loop 1604 East, Suite 202

San Antonio, TX 78232

(210) 308-6288

Andrew 1 P

Date

Andrew L. Baumgardner

President of HTAC Kitty Mawk, Inc., its General Porther

I have reviewed the attached Maintenance Plan and Schedule for the Aqualogic Cartridge Filtration System and to the best of my knowledge certify that, if the Plan and Schedule are adhered to, the Aqualogic Cartridge Filtration will perform as designed.



SCHEDULE A

AQUALOGIC[™] STORMWATER FILTRATION SYSTEM OPERATION AND MAINTENANCE PLAN

| Maintenance Task Item ⁽¹⁾ | Description of Maintenance/Repairs to be Performed ^(z) | Typical Frequency ^{ta} |
|--|---|---|
| Basin and Inlet | Visually inspect and note items which need repair or maintenance performed (pipes, concrete drainage structures, retaining walls, cracks, voids or undermining, etc.). Check for erosion areas inside and outside the basin. (4) Insure the inlet and bypass are not clogged. | Each site visit |
| Trash Removal | Remove trash from the sedimentation and the filtration chambers. Properly dispose of all removed material ⁽⁵⁾ . | Each site visit |
| Sediment Removal | Remove sediment from the sedimentation and the filtration chambers. Properly dispose of all removed material by sweeping the basin, bagging the waste and removing the bagged waste by hand up the access ladders (5). | When sediment is greater than 2 inches in depth |
| Bladder Valve | Check for proper operation in "auto" and "manual" mode: repair or replace damage valve. | Each site visit |
| Canisters | Clean filter canisters as needed; repair or replace damaged canisters. | Each site visit |
| Cartridges | Remove and dispose of spent cartridges per manufacturer's recommendations. (5) | As need to insure proper drawdown within 72 hours |
| Geotextile Wrapping | Inspect geotextile wrapping and repair or replace as needed | At time of filter replacement |
| Controls | Visually inspect equipment and controls; verify proper function and repair or replace inoperative components. | Each site visit |
| Concrete Channel, Bypass Weir & Outfall | Visually inspect outfall and verify that discharge is leaving the filter by gravity. (4) | Each site visit |
| Site | Visually inspect site for detrimental debris or spillage that may result in damage to the AquaLogic system. | Each site visit |
| Facility Operations | Observe the complete facility to evaluate the operation. Review watershed status and determine if any modifications to the facility are warranted (4)(6) | Each site visit |
| Wet Well/Sump Pump | If utilized, visually inspect wet well and sump pump to verify proper evacuation and discharge of stormwater. (4) | Each site visit |
| Underdrain Piping | Periodically clean underdrain piping using clean-out access ports to insure unimpeded discharge of filtered stormwater. | Two year Intervals |
| Security Fencing | Observe that the BMP site fence is closed with locked gates at all times, and fence is undamaged. (4) | Each site visit |
| Documentation ⁽⁷⁾ | Prepare site visit report noting all items of maintenance, repair, or replacement performed during each site visit. | Each site visit |

Notes:

Maintenance of installed AquaLogic[™] systems is carried out by AquaLogic[™] personnel.
 All maintenance activities, including entering confined space, will be performed in accordance with applicable OSHA

(3) Site visits are carried out once a month or after each significant rainfall event, whichever occurs more often.

Customer will be notified of repair or maintenance items, and facility concerns.

Properly dispose of trash, sediment and cartridges in accordance with applicable regulations.

 (6) At least two inspections per year shall be done during or immediately following wet weather.
 (7) Documentation to be maintained at AquaLogic offices for a minimum time of 5 years to be reviewed by the Customer or regulatory agency during normal business hours.

| AQUALOGICIM AGREEMENT NO. | dot44 |
|---------------------------|-------|
| AQUALOGICE AGREEMENT NO. | UZ19A |

AQUALOGIC CARTRIDGE FILTRATION SYSTEM MAINTENANCE AND INSPECTION FORM

Note:

This information shall be filled out and signed by the responsible party performing the maintenance and inspection of the Permanent Best Management Practice. (Make additional copies of this form as needed)

| Inspection Date: |
|---|
| Signature of Responsible Party: |
| Print Name of Responsible Party: |
| Address of Responsible Party: |
| Phone Number of Responsible Party: |
| Maintenance Performed for Permanent Best Management Practice: |
| |
| |
| |
| |
| |
| |
| Inspection Date: |
| Signature of Responsible Party: |
| Print Name of Responsible Party: |
| Address of Responsible Party: |
| Phone Number of Responsible Party: |
| Maintenance Performed for Permanent Best Management Practice: |
| |
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| |
| |
| |
| |

 $\label{eq:F:loss} F:\label{eq:F:loss} F:\label{eq:F:loss} $$ - OakRun Commercial Unit 2B\dwg\WPAP\Attachment G Maintenance Plan-Aqualogic revised 10-02-15.doc$

MARATHON TITLE COMPANY

弘m @

GF# 16215

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED

201506036823 09/11/2015 0B:B7:35 AM 1/5

Date:

September 9, 2015

Grantor:

NEW BRAUNFELS INVESTMENT JOINT VENTURE,

a Texas joint venture partnership

Grantor's Mailing Address:

P. O. Box 311240

New Braunfels, Texas 78131

Grantee:

1604 KITTY HAWK, LTD.,

a Texas limited partnership

Grantee's Mailing Address:

150 N. Loop 1604 E., Suite 202

San Antonio, Texas 78232

Consideration:

good and valuable consideration, the receipt of which is acknowledged.

Property (including any improvements):

Tract I:

Lot I, OAK RUN COMMERCIAL SUBDIVISION, UNIT 2B, Comal County, Texas, according to plat thereof recorded in Document No. 201506034905, Map and Plat Records of Comal County, Texas;

together with the following easements:

Tract II:

easement rights created in Cross Access Easement Agreement recorded in Document No. 201106005803. Official Records of Comal County, Texas;

Tract III:

easement rights created in Private and Variable Width Drainage Easement recorded in Document No. 201106005804, Official Public Records of Comal County, Texas; and

Tract IV:

easement rights created in Sanitary Sewer Easement Agreement recorded in Document No. 201106005805, Official Public Records of Comal County, Texas.

Exceptions to Conveyance and Warranty:

- 1. <u>Permitted Exceptions</u>. Those matters described in <u>Exhibit "A"</u> attached hereto and incorporated herein (the "<u>Permitted Exceptions</u>"); and
- 2. Taxes for the current year, the payment of which Grantee assumes.

Grantor, for the Consideration and subject to the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's successors and assigns forever. Grantor binds Grantor and Grantor's successors to warrant and forever defend all and singular the Property to Grantee and Grantee's successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through, or under Grantor but not otherwise, except as to the Exceptions to Conveyance and Warranty.

Grantor, under the terms of the Restrictions (defined in Exhibit "A" hereto) reserved the right to approve all Improvements erected, constructed, or placed on the Property and any replacement, remodel or modification thereof ("Architectural Review"). Grantor is the sole holder of the right of Architectural Review. By this instrument, Grantor agrees that, as to this Property only (1) Architectural Review will cease on the tenth (10th) anniversary of the Date first set forth above and (2) Architectural Review of any replacement, remodel or modification of Improvements already approved will not be unreasonably delayed or withheld and in that connection, if Grantor or its successors and assigns fails to approve Plans within thirty (30) days of submittal, then such Plans shall be deemed approved. The preceding will be appurtenant to and run with the title to the Property and shall be binding upon and inure to the benefit of the successors and assigns of the parties. Terms used in this paragraph will have the same meaning as defined in the Restrictions.

When the context requires, singular nouns and pronouns include the plural.

IN WITNESS WHEREOF, Grantor has caused this Special Warranty Deed to be executed to be effective as of the Date first set forth above.

[Signature Page Follows]

GRANTOR:

NEW BRAUNFELS INVESTMENT JOINT VENTURE,

a Texas joint venture partnership

By: Oak Run Realty, Inc., a Texas corporation,

its managing joint venture partner

By: Al

Edward Badouh, III, Vice-President

STATE OF TEXAS

S

COUNTY OF BEXAR

3

Notary Public, State of Texas

AFTER RECORDING RETURN TO:

Andrew Baumgardner Jackson Walker, LLP 112 East Pecan Suite 2400 San Antonio, Texas 78205 JAMES C. NORMAN Natary Public: State of Texas My Commission Expires June 16, 2016

Exhibit "A"

Permitted Exceptions

- Restrictive covenants recorded in Document No. 200006018688, Document No. 201106005802, Document No. 201106016325, Document No. 201206016594, and Document No. 201406008880, Official Public Records of Comal County, Texas (collectively, the "Restrictions").
- 2. The following matters shown on the map or plat recorded in Document No. 201106003716 and map or plat recorded in No. 201506034905, Map and Plat Records of Comal County, Texas:
 - 2.1 20'sanitary sewer easement across the north side and northeast corner of Property, as shown on the survey of the Property dated September 8, 2015, prepared by Drew A. Mawyer RPLS No. 5348, of DA Sawyer Land Surveying; and
 - 2.2 25'sanitary sewer easement and private access easement at the northeast corner of the Property, as shown on the survey of the Property dated September 8, 2015, prepared by Drew A. Mawyer RPLS No. 5348, of DA Sawyer Land Surveying.
- Utility Easement to New Braunfels Utilities recorded under Document No. 201106032776, Official Records of Comal County, Texas, as shown on the survey of the Property dated September 8, 2015, prepared by Drew A. Mawyer, RPLS No. 5348, of D. A. Mawyer Land Surveying.
- 1' Non-Access Easement along the State Highway 46 Property line as shown on plat recorded under Document No. 201506034905, Map and Plat Records of Comal County, Texas.
- Variable Width Utility Easement along the State Highway 46 Property line to NBU recorded under Document No. 201506028565, Official Records of County Texas.
- Cross Access Easement Agreement recorded under Document No. 201106005803, Official Records, Comal County, Texas.
- Private and Variable Width Drainage Easement Agreement recorded under Document No. 201106005804, Official Records, Comal County, Texas.
- Sanitary Sewer Easement Agreement recorded in Document No. 201106005805, Official Public Records, Comal County, Texas.
- 9. Restrictions, easements, and other matters set forth in "Notes" shown on the map or plat recorded in Document No. 201506034905; Map and Plat Records of Comal County, Texas.
- Luminar Standard located on northeast Property line, as shown on the survey of the Property dated September 8, 2015, prepared by Drew A. Mawyer, RPLS No. 5348, of D. A. Mawyer Land Surveying.

 Luminar Standard located within Track II of the Property only, as shown on the survey of the Property dated September 8, 2015, prepared by Drew A. Mawyer, RPLS No. 5348, of D. A. Mawyer Land Surveying.

Filed and Recorded
Official Public Records
Bobbie Koepp. County Clerk
Comai County, Texas
09/11/2015 09:57:35 AM
CASHTWO 5 Page(s)
201506036823

LOCATION MAP

N.T.S.

SCALE: 1"=50"

-LAND SURVEYING

132 CADDELL LANE NEW BRAUNFELS, TX 78130 PH: (830)632-5092

TE: MAY 2015 JOB RA

1. LOT 1 WITHIN THE SUBDIVISION WILL BE PROVIDED WATER, SEWER AND ELECTRIC BY NEW BRAUNFELS UTILITIES. TELEPHONE SERVICE FOR THE SUBDIVISION WILL BE PROVIDED BY AT&T COMMUNICATIONS. CABLE TV SERVICE WILL BE PROVIDED BY TIME WARNER. GAS SERVICE TO BE PROVIDED BY CENTERPOINT ENERGY. LOT 2 IS AN UNBUILDABLE LOT.

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM 1983.

MONUMENTS WERE FOUND OR SET AT EACH CORNER OF THE SURVEY BOUNDARY OF THE SUBDIVISION. MONUMENTS AND LOT MARKERS WILL BE SET WITH PLASTIC CAP STAMPED "DAM #5348 PROP. COR." IMMEDIATELY AFTER COMPLETION OF UTILITY INSTALLATION AND STREET CONSTRUCTION UNLESS

noted otherwise. NO PORTION OF THE SUBDIVISION IS LOCATED WITHIN THE EXISTING SPECIAL FLOOD HAZARD ZONE A, 100-YEAR FLOOD BOUNDARY, AS DEFINED BY THE COMAL COUNTY, TEXAS COMMUNITY PANEL NUMBER 48091C0435F, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, EFFECTIVE

DATE SEPTEMBER 2, 2009. 5. LOT 1 AND LOT 2, OAK RUN COMMERCIAL UNIT 2B, FALLS WITHIN THE CITY LIMITS OF THE CITY OF NEW BRAUNFELS.

6. THE SUBDIVISION IS WITHIN THE NEW BRAUNFELS INDEPENDENT SCHOOL

7. THIS SUBDIVISION LIES WITHIN THE RECHARGE ZONE OF THE EDWARDS

8. THE PROPOSED USE OF THE SUBDIVISION IS FOR COMMERCIAL USE. IT IS CURRENTLY ZONED C-1 (LOCAL BUSINESS DISTRICT) AND C-3 (COMMERCIAL

9. OAK RUN COMMERCIAL UNIT 2B, ESTABLISHING A TOTAL OF 2 LOTS.

LEGEND:

P.O.B. = POINT OF BEGINNING U.E. = UTILITY EASEMENT R.O.W. = RIGHT-OF-WAYO = 1/2" IRON PIN SET

= IRON PIN FOUND

10. THERE IS AN EXISTING SIDEWALK ADJACENT TO HIGHWAY 46.

11. NO STRUCTURES IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A PUBLIC WATER AND SEWER SYSTEM WHICH HAS BEEN APPROVED BY NEW BRAUNFELS UTILITIES.

OAK RUN COMMERCIAL - UNIT 2B # 201506034905 FINAL PLAT

BEING 2.986 ACRE OF OUT OF THE S.A. & M.G. RR, SURVEY NO. 276, ABSTRACT NO. 586, COMAL COUNTY, TEXAS, AND BEING A PORTION OF A RESIDUE OF 29.68 ACRES OF LAND DESCRIBED IN VOLUME 449, PAGE 161, OFFICIAL RECORDS OF COMAL COUNTY, TEXAS.

12. MAINTENANCE OF VARIABLE WIDTH DRAINAGE EASEMENTS/DETENTION

13. FUTURE DEVELOPMENT IS SUBJECT TO CHAPTER 114 (STREETS,

OF ORDINANCES

SAID DRAINAGE EASEMENTS.

POND ON LOT 2 SHALL BE THE RESPONSIBILITY OF THE OAK RUN UNIT 2 PROPERTY OWNERS ASSOCIATION, INC.

SIDEWALKS AND OTHER PUBLIC SPACES) OF THE NEW BRAUNFELS CODE

BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THIS PLAT. NO LANDSCAPING, FENCES, OR OTHER TYPE OF

INGRESS AND EGRESS OVER GRANTORS ADJACENT PROPERTY TO REMOVE

ANY OBSTRUCTIONS PLACED WITHIN THE LIMITS OF SAID DRAINAGE EASEMENTS AND TO MAKE ANY MODIFICATIONS OR IMPROVEMENTS WITHIN

MODIFICATIONS WHICH ALTER THE CROSS SECTIONS OF THE DRAINAGE

14. NO STRUCTURES, WALLS OR OTHER OBSTRUCTIONS OF ANY KIND SHALL

EASEMENTS OR DECREASES THE HYDRAULIC CAPACITY OF THE CASEMENT, AS APPROVED, SHALL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER AND DIRECTOR OF THE PUBLIC WORKS. THE CITY OF

NEW BRAUNFELS AND COMAL COUNTY SHALL HAVE THE RIGHT OF

15. AT TIME OF PLAT THIS SUBDIVISION IS FOR COMMERCIAL USE, AT THE

THE OWNER(S) OF SHALL IMMEDIATELY CONTACT THE CITY OF NEW

TIME THE USE OF THIS PROPERTY BECOMES A RESIDENTIAL PURPOSE,

16. LOT 1 MUST PROVIDE ON-SITE WATER POLLUTION ABATEMENT MEASURES

TO MEET THE REQUIREMENTS OF TCEQ AND ANY OTHER REGULATORY AGENCY REQUIREMENT AT TIME OF ISSUANCE OF BUILDING PERMIT.

17. THIS SUBDIVISION IS SUBJECT TO THE CITY OF NEW BRAUNFELS PARK LAND DEDICATION AND DEVELOPMENT ORDINANCE. AT SUCH TIME THAT RESIDENTIAL DWELLING UNITS ARE CONSTRUCTED WITHIN THIS

BRAUNFELS BEFORE CERTIFICATE OF OCCUPANCY IS ISSUED BY THE CITY.

SUBDIVISION, THE OWNERS(S) SHALL CONTACT THE CITY OF NEW BRAUNFELS AND COMPLY WITH THE ORDINANCE FOR EACH NEW DWELLING

18. ACCESS FOR MAINTENANCE OF THE DRAINAGE IMPROVEMENTS AND DETENTION

TXDOT NOTES:

- . FOR DEVELOPMENT DIRECTLY ADJACENT TO STATE RIGHT-OF-WAY, THE DEVELOPER/OWER SHALL BE RESPONSIBLE FOR ADEQUATE SET-BACK AND/OR SOUND ABATEMENT MEASURE FOR FUTURE NOISE MITIGATION.
- THE EXISTING DRAINAGE SYSTEM WITHIN THE HIGHWAY RIGHT-OF-WAY, FOR PROJECTS IN THE EDWARDS AQUIFER RECHARGE OF CONTRIBUTING ZONES. OUTFALLS FOR WATER QUALITY AND/OR DETENTION PONDS TREATING IMPERVIOUS COVER RELATED TO THE DEVELOPMENT, WILL NOT ENCROACH BY STRUCTURE OF GRADING INTO STATE RIGHT-OF-WAY, PLACEMENT OF FILTER STRIPS WITHIN STATE RIGHT-OF-WAY WILL NOT BE ALLOWED
- IF SIDEWALKS ARE REQUIRED BY APPROPRIATE CITY ORDINANCE, A SIDEWALK PERMIT MUST BE APPROVED BY TXDOT, PRIOR TO CONSTRUCTION WITHIN STATE RIGHT-OF-WAY. LOCATIONS OF SIDEWALKS WITHIN STATE RIGHT-OF-WAY SHALL BE AS DIRECTED BY TXDOT.
- BE REGULATED AS DIRECTED BY "REGULATION FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS" AND ELIGIBLE FOR A MAXIMUM COMBINED TOTAL OF 1 (ONE) ACCESS POINT TO THE STATE HIGHWAY SYSTEM BASED ON AN OVERALL FRONTAGE OF APPROXIMATELY 448 FEET. THE ACCESS POINT WILL BE A RIGHT IN AND RIGHT OUT ONLY COMMERCIAL DRIVEWAY, LOCATED 518 FEET FROM THE APPROXIMATE CENTERLINE OF THE OAK RUN PARKWAY INTERSECTION WITH SH 46 AND OAK RUN PARKWAY.
- ANY TRAFFIC CONTROL MEASURES (LEFT-TURN LANE, RIGHT-TURN LANE, SIGNAL, ETC.) FOR ANY ACCESS FRONTING A STATE MAINTAINED ROADWAY SHALL BE THE RESPONSIBILITY OF THE OWER/DEVELOPER.

- OWNER/DEVELOPER IS RESPONSIBLE FOR PREVENTING ANY ADVERSE IMPACT TO PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICE DEVICES OR VEGETATIVE
- MAXIMUM ACCESS POINTS TO THE STATE HIGHWAY FROM THIS PROPERTY WILL

NEW BRAUNFELS UTILITIES NOTES:

- MAINTENANCE OF DEDICATED UTILITY EASEMENTS IS THE RESPONSIBILITY OF THE PROPERTY OWNER. ANY USE OF AN EASEMENT, OR ANY PORTION OF IT, INCLUDING LANDSCAPING OR DRAINAGE FEATURES, IS SUBJECT TO AND SHALL NOT CONFLICT WITH THE TERMS AND CONDITIONS IN THE EASEMENT, MUST NOT ENDANGER OR INTERFERE WITH THE RIGHTS GRANTED BY THE EASEMENT TO NEW BRAUNFELS UTILITIES, ITS SUCCESSORS AND ASSIGNS, AND SHALL BE SUBJECT TO APPLICABLE PERMIT REQUIREMENTS OF THE CITY OF NEW BRAUNFELS OR ANY OTHER GOVERNING BODY. THE PROPERTY OWNER MUST OBTAIN, IN ADVANCE, WRITTEN AGREEMENT WITH THE UTILITIES TO UTILIZE THE EASEMENT, OR ANY PART OF IT.
- UTILITIES WILL POSSESS A 5' WIDE SERVICE EASEMENT TO THE DWELLING ALONG THE SERVICE LINE TO THE SERVICE ENTRANCE. THIS EASEMENT WILL VARY DEPENDING UPON LOCATION OF DWELLING AND SERVICE.
- UTILITIES SHALL HAVE ACCESS TO THE METER LOCATIONS FROM THE FRONT YARD AND METER LOCATIONS SHALL NOT BE LOCATED WITHIN A FENCED AREA.
- EACH LOT MUST HAVE ITS OWN WATER AND SEWER SERVICE AT THE OWNER'S/DEVELOPER'S EXPENSE.
- EACH TRACT IS SUBJECT TO A FLOATING GUY WIRE EASEMENT AND ITS DIMENSIONS SHALL BE DETERMINED BY THE NEED OF THE UTILITIES.
- . DO NOT COMBINE ANY NEW UTILITY EASEMENTS (U.E.) WITH DRAINAGE EASEMENTS (D.E.) OR MAKE CHANGES IN GRADE WITHIN THE UTILITY EASEMENTS (U.E.) WITH OUT WRITTEN APPROVAL FROM NEW BRAUNFELS UTILITIES.

STATE OF TEXAS COUNTY OF COMAL

THE UNDERSIGNED OWNER OF THE LAND SHOWN ON THIS PLAT, AND DESIGNATED HEREIN AS OAK RUN COMMERCIAL UNIT 2B SUBDIVISION, TO THE CITY OF NEW BRAUNFELS, COUNTY OF COMAL, TEXAS, AND WHOSE NAME IS SUBSCRIBED HERETO, DO HEREBY SUBDIVIDE SUCH PROPERTY AND DEDICATE TO THE USE OF THE PUBLIC ALL STREETS, ALLEYS, PARKS, DRAINS, EASEMENTS, AND PUBLIC PLACES THEREON SHOWN FOR THE PURPOSES AND CONSIDERATION THEREIN EXPRESSED.

REBECCALE. HILL, VICE PRESIDENT OF OAKRUN REALTY, INC.
MANAGING PARTNER OF NEW BRAUNFELS INVESTMENT JOINT VENTURE

COUNTY OF COMAL THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 10 DAY OF 10 LT BY REPECCE HILL NOTARY PUBLIC, SYATE OF THE MY COMMISSION EXPRES: TEXAS - 2-17



KNOW ALL MEN BY THESE PRESENTS:

, THE UNDERSIGNED, DREW A. MAWYER, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE UNDER MY SUPERVISION AND IN COMPLIANCE WITH CITY AND STATE SURVEY REGULATIONS AND LAWS AND MADE ON THE GROUND AND THAT THE CORNER MONUMENTS WERE PROPERLY PLACED UNDER MY SUPERVISION.

1 sew 4. Wan DREW A. MAWYER REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5348 D.A. MAWYER LAND SURVEYING 2700 ROLLING CREEK, SPRING BRANCH, TX 78070

APPROVED THIS THE THE DAY OF JULY 2015, BY PLANNING COMMISSION OF THE CITY OF NEW BRAUNFELS, TEXAS. 2015, BY THE Cony Elred

STATE OF TEXAS COUNTY OF COMAL

I, COOLE TOPPO DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT WAS FILED FOR RECORD IN THE MAP AND PLAT RECORDS, DOC. 2015, AT 2017 AM.

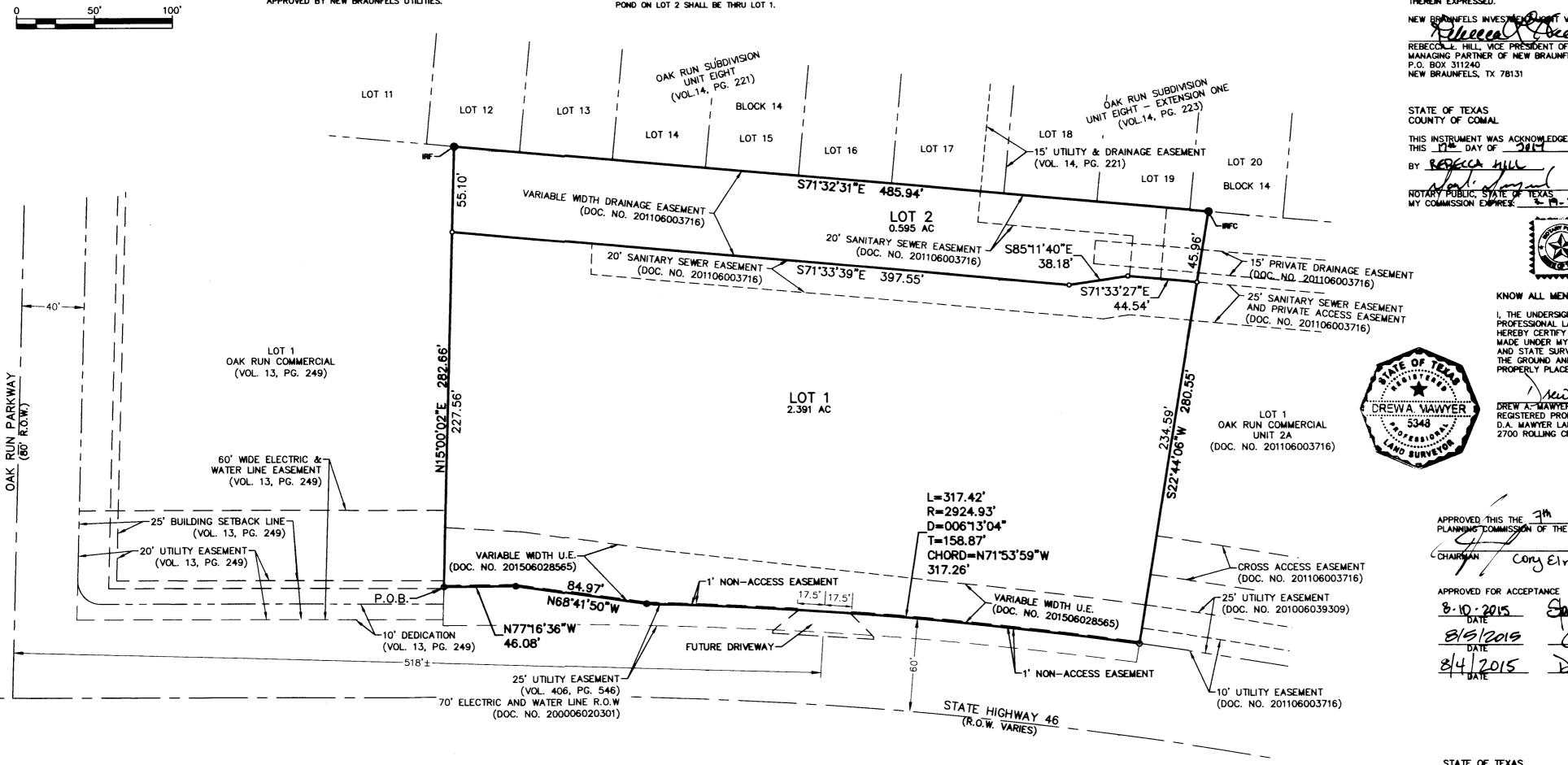
WITNESS MY HAND AND OFFICIAL SEAL, THIS THE 31 DAY

COUNTY CLERK, COMAL COUNTY, TEXAS

DEPUTY

COUNTY CLERK, COMAL COUNTY, TEXAS

DEPUTY



Bryan W. Shaw, Ph.D., Chairman Toby Baker, Commissioner Richard A. Hyde, P.E., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 2, 2015

RECEIVED

SEP 0 4 2015

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

COUNTY ENGINEER

Re:

PROJECT NAME: Oak Run Commercial Unit 2B, located approximately 275 feet southeast of the Oak Run Parkway and Highway 46 intersection, New Braunfels, Texas

PLAN TYPE: Application for a Water Pollution Abatement Plan (WPAP), 30 Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program

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. More information regarding this project may be obtained from the TCEQ Central Registry website at http://www.tceq.state.tx.us/permitting/central registry/.

Please forward your comments to this office by October 2, 2015.

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



CIVIL ENGINEERING & CONSULTING SERVICES

- RESIDENTIAL DEVELOPMENT
- SITE DEVELOPMENT
- Public Works
- UTILITIES

Water Pollution Abatement Plan

Oak Run Commercial, Unit 2B

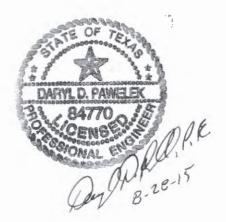
New Braunfels, Texas

TCEQ-R13 3 SEP 1 2015

SAN ANTONIO

by

Pawelek & Moy, Inc. Job No. 1505.02



August 2015

RECEIVED

SEP 04 2015

COUNTY ENGINEER

Water Pollution Abatement Plan Checklist

- Edwards Aquifer Application Cover Page (TCEQ-20705)
- 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)

$\frac{x}{x}$ 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

Temporary Stormwater Section (TCEQ-0602)

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 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

- $\stackrel{\rm X}{-}$ Agent Authorization Form (TCEQ-0599), if application submitted by agent
- Application Fee Form (TCEQ-0574)
- $\frac{x}{x}$ Check Payable to the "Texas Commission on Environmental Quality"
- Core Data Form (TCEQ-10400)

General Information Form

Print Name of Customer/Agent: Daryl D. Pawelek (Agent)

Texas Commission on Environmental Quality

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

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

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

Signature

Date: 8-28-15

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

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:

| Sig | ignature of Customer/Agent: | |
|-----|--|--------|
| | Regardell | |
| P | Project Information | |
| 1. | . Regulated Entity Name: Oak Run Commercial, Unit 2B | |
| 2. | . County: Comal | |
| 3. | . Stream Basin: Blieder's Creek | |
| 4. | . Groundwater Conservation District (If applicable): Edwards Aquifer Authority | |
| 5. | . Edwards Aquifer Zone: | |
| | X Recharge Zone Transition Zone | |
| 6. | . Plan Type: | |
| | X WPAP SCS Modification SCS Exception Request | |
| | | 1 of 4 |

7. Customer (Applicant): Contact Person: Rebecca L. Hill Entity: New Braunfels Investment Joint Venture Mailing Address: PO Box 311240 Zip: 78131-1240 City, State: New Braunfels, Texas FAX: (830)609-0480 Telephone: (830)625-8933 Email Address: blhill@satx.rr.com Agent/Representative (If any): Contact Person: Daryl D. Pawelek, P.E. Entity: Pawelek & Moy, Inc. Mailing Address: 130 W. Jahn St. City, State: New Braunfels, Texas Zip: 78130-7640 FAX: (830) 629-2564 Telephone: (830) 629-2563 Email Address: daryl.pawelek@sbcglobal.net 9. Project Location: X The project site is located inside the city limits of New Braunfels, Texas The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of __ The project site is not located within any city's limits or ETJ. 10. X 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 site is located approx. 275 ft southeast of the intersection of Oak Run Pkwy and SH 46 on SH 46. 11. X Attachment A - Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map. 12. X Attachment B - USGS / Edwards Recharge Zone Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show: X Project site boundaries. X USGS Quadrangle Name(s). X Boundaries of the Recharge Zone (and Transition Zone, if applicable). X Drainage path from the project site to the boundary of the Recharge Zone.

13. X The TCEQ must be able to inspect the project site or the application will be returned.

Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

X Survey staking will be completed by this date: 08/24/2015

| 14. X Attachment C – Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details: |
|---|
| X Area of the site X Offsite areas X Impervious cover X Permanent BMP(s) X Proposed site use X Site history X Previous development X Area(s) to be demolished |
| 15. Existing project site conditions are noted below: |
| Existing commercial site Existing residential site Existing paved and/or unpaved roads Undeveloped (Cleared) Undeveloped (Undisturbed/Uncleared) (Routine Maintenance/Shredding-Proposed Lot 1) Other: Detention Pond on Proposed Lot 2 (constructed under WPAP approved 11/24/2010; EAPP 2947.00) 8 Sanitary Sewer on Proposed Lot 1 and 2 (constructed under SCS approved 12/13/2010; EAPP 2947.01) |
| 16. X I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project: |
| Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control); |
| (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3; |
| (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1; |
| (4) The use of sewage holding tanks as parts of organized collection systems; and |
| (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities). |
| (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading. |
| 17. NA 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); |

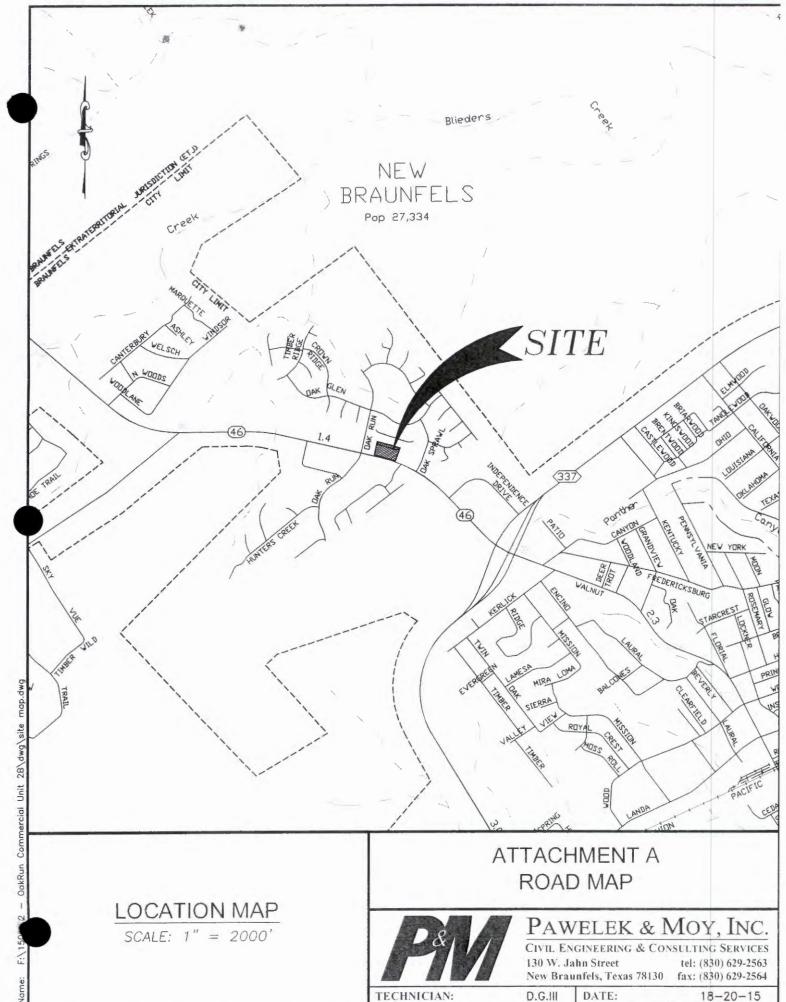
(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

3 of 4

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

Administrative Information

| 18. The fee for the plan(s) is based on: | |
|--|----|
| X For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur. For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines. For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems. A request for an exception to any substantive portion of the regulations related to the protection of water quality. A request for an extension to a previously approved plan. | |
| 19. X 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: | :t |
| TCEQ cashier Austin Regional Office (for projects in Hays, Travis, and Williamson Counties) San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties) | |
| 20. 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 region office. | าล |
| 21. 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. | n |

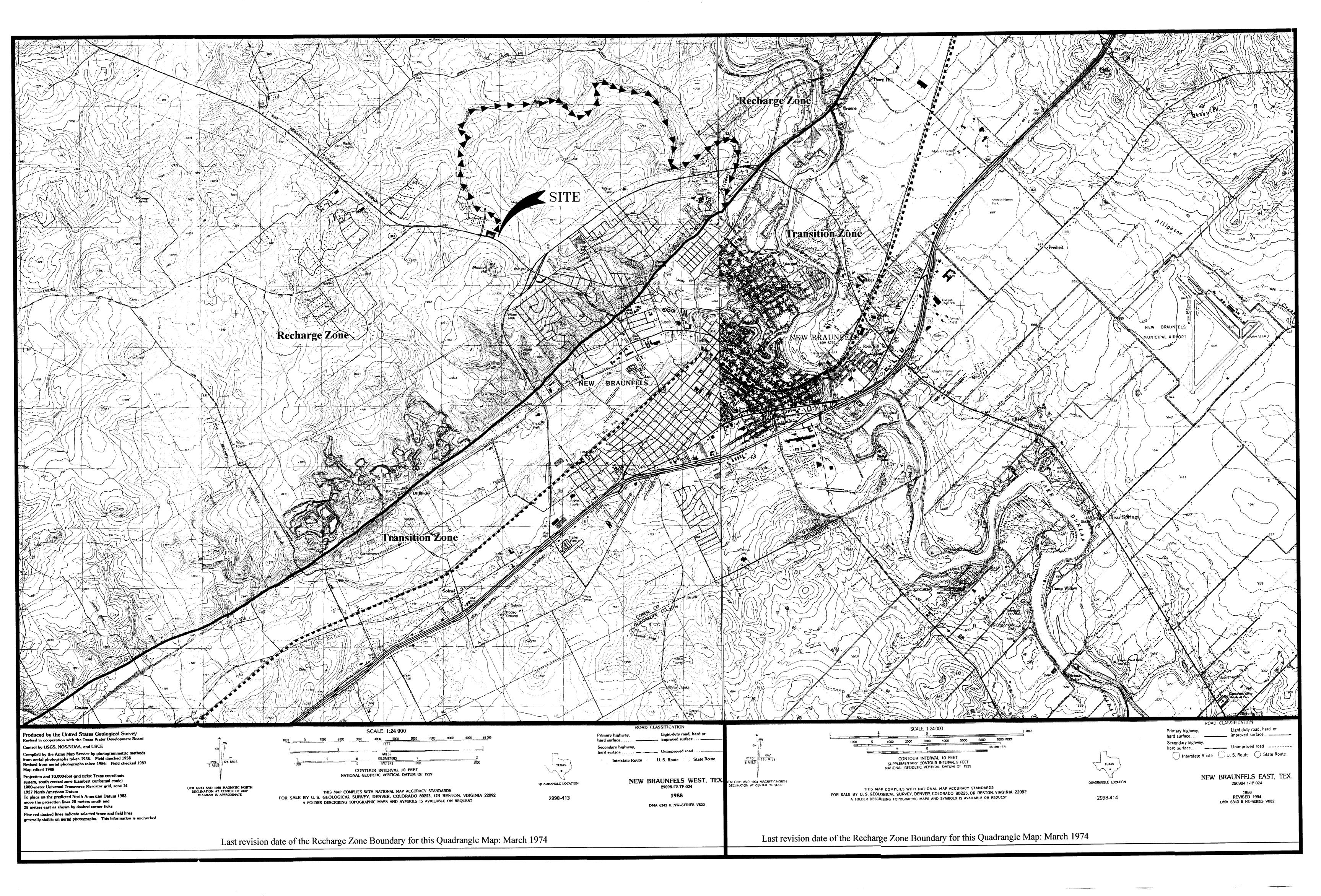


JOB NO.

1505.02

SHEET:

ATTACHMENT B USGS/EDWARDS RECHARGE ZONE MAP



ATTACHMENT "C" PROJECT DESCRIPTION

This 2.986 acre project site is located approximately 275 ft southeast of the intersection Oak Run Parkway and State Highway 46 on the north side of State Highway 46 in New Braunfels, Texas. The existing site is a vacant commercial tract that generally drains from the south to the north towards an existing detention pond that was constructed on Proposed Lot 2 previously under a WPAP approved 11/24/2010, EAPP 2947.00. The project site is located in the Blieder's Creek drainage basin but is not located in a FEMA 100 yr. flood plain according to FEMA FIRM Map 48091C0435F (effective 9/2/2009).

The proposed site will consist of two retail buildings and associated parking/sidewalk areas. The runoff from the roofs, associated parking areas a portion of the sidewalks will be treated by an Aqualogic Cartridge Filtration System generally located on the northwest portion of the site. The following table summarizes the impervious cover areas and the corresponding BMP for a total Impervious Cover of 68.95% for the overall site:

| IMPERVIOUS COVER | DESC | RIPTION | PERMANENT BEST MANAGEMENT PRACTICE |
|--|--------|------------|--|
| Structures/Rooftops | - | 21,903 sf | Proposed – Aqualogic Cartridge Filtration |
| Pavement/Concrete/Sidewa | lks/ | | System |
| Drainage/Drive Items | - | 67,240 sf | |
| Driveway Apron (Offsite/In SH 46 ROW/ | | | |
| Uncaptured/Overtreatment | | | |
| Provided with Aqualogic | | | |
| Cartridge Filtration Basin) | - | 546 sf | |
| Impervious Cover | = | 89,689 sf | |
| Total Impervious Cover | | | |
| Included in this 2.986 ac (2.059 Acres) (68.95%) | . plan | = 89,689 s | f |

PREPARED BY FROST GEOSCIENCES FOR OAK RUN COMMERCIAL, UNIT 2B



Geologic Site Assessment (WPAP)

for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone

Oak Run Commercial Reserve
Unit 2B, 2.986 Acres
Texas Highway 46
New Braunfels, Texas

FROST GEOSCIENCES CONTROL # FGS-E15181

August 25, 2015

Prepared exclusively for

New Braunfels Investment Joint Venture 2501 Oak Run Parkway New Braunfels, Texas 78132

Frost Geosciences

Geotechnical - Construction Materials Forensics - Environmental

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



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

August 25, 2015

New Braunfels Investment Joint Venture 2501 Oak Run Parkway New Braunfels, Texas 78132

Attn: Mr. Rob Eversberg

Re: Geologic Site Assessment (WPAP)

for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone

The Oak Run Commercial Reserve

Unit 2B, 2.986 Acres New Braunfels, Texas

Frost GeoSciences, Inc. Control # FGS-E15181

Dear Sir:

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

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

Steve M. Frost
Geology
License No. 315
CLENSE
OVAL x GEOSCIE

Sincerely, Frost GeoSciences, Inc.

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

Distribution: (5) Pawelek & Moy, Inc.

(I) New Braunfels Investment Joint Venture

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|------|----------------|---|----|
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Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

| Print Name of Geologist: Steve Frost, C.P.G., P. | G. Telephone: (210) 372-1315 |
|---|--------------------------------------|
| Date: August 25, 2015 | Fax: (210) 372-1318 |
| Representing: Frost GeoSciences, Inc., TBPE | #F-9227, TBPG # 50040 |
| Signature of Geologist: | NE OF TEX |
| Seese Frost | Steve M. Frost |
| Regulated Entity Name: Oak Run Commerci | ial, Unit 2B Geology License No. 315 |
| Project Information | CENSED SOLUCIONES OF STREET |
| 1. Date(s) Geologic Assessment was performed | :August 5, 2015 |
| 2. Type of Project: | |
| ✓ WPAP SCS 3. Location of Project: | ☐ AST ☐ UST |
| ✓ Recharge Zone☐ Transition Zone☐ Contributing Zone within the Transition Z | one |

1 of 3

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

August 25, 2015 Oak Run Commercial, Unit 2B Page 1

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

| Soil Name | Group* | Thickness(feet) |
|-----------|--------|-----------------|
| RuD | D | 0 to 1 |
| | | |
| | | |
| | | |

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

Applicant's Site Plan Scale: 1" = 30 '
Site Geologic Map Scale: 1" = 30 '

Site Soils Map Scale (if more than 1 soil type): 1" = 500 '

9. Method of collecting positional data:

✓ Global Positioning System (GPS) technology.

✓ Other method(s). Please describe method of data collection: 2014 Aerial Photograph

10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. 🗸 Surface geologic units are shown and labeled on the Site Geologic Map.

| Frost GeoScience |
|--|
| 12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table. |
| Geologic or manmade features were not discovered on the project site during the field investigation. |
| 13. The Recharge Zone boundary is shown and labeled, if appropriate. |
| 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section. |
| There are (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.) ☐ The wells are not in use and have been properly abandoned. ☐ The wells are not in use and will be properly abandoned. ☐ The wells are in use and comply with 16 TAC Chapter 76. ✓ There are no wells or test holes of any kind known to exist on the project site. |
| Administrative Information |
| 15. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office. |

Stratigraphic Column

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

| | drogeolo ubdivisio | | | | Group, ormation, r member | Hydro- logic function | Thickness (feet) | Lithology | Field identification | Cavern development | Porosity/ permeability type |
|------------------|-------------------------|-----------------|-------------------|------------------|---|---------------------------------|-------------------------------------|--|---|--|---|
| Sno | Upp | | Ea | gle F | ord Group | CU | 30 - 50 | Brown, flaggy shale and argillaceous limestone | Thin flagstones; petroliferous | None | Primary porosity lost/ low permeability |
| Upper Cretaceous | units Buda Limestone CU | | Buda Limestone CU | | CU | 40 – 50 | Buff, light gray, dense mudstone | Porcelaneous limestone with calcite-filled veins | Minor surface karst | Low porosity/low permeability | |
| Cpp | | | De | Rio | Clay | CU | 40 - 50 | Blue-green to yellow-brown clay | Fossiliferous; Ilymatogyra arietina | None | None/primary upper confining unit |
| | 1 | | | - | lown ation | Karst AQ; not karst CU | 2 - 20 | Reddish-brown, gray to light tan marly limestone | Marker fossil; Waconella wacoensis | None | Low porosity/low permeability |
| | ft. | | | _ | Cyclic and marine members, undivided | AQ | 80 90 | Mudstone to packstone; miliolid grainstone; cheri | Thin graded cycles; massive beds to relatively thin beds, crossbeds | Many subsurface: might be associated with earlier karst development | Laterally extensive; both fabric and not fabric/water-yielding |
| | 111 | | | Person Formation | Leached and collapsed members, undivided | AQ | 70 – 90 | Crystalline limestone; mudstone to grainstone; chert; collapsed breccia | Bioturbated iron- stained beds separated by massive limestone beds; stromatolitic limestone | Extensive lateral development; large rooms | Majority not fabric/one of the most permeable |
| sno | IV | Edwards aquifer | Group | | Regional dense member | CU | 20 - 24 . | Dense, argillaceous mudstone | Wispy iron-oxide stains | Very few; only vertical fracture enlargement | Not fabric/low permeability; vertical barrier |
| Lower Cretaceous | v | Edward | Edwards Group | | Grainstone member | AQ | 50 60 | Miliolid grainstone; mudstone to wackestone; chert | White crossbedded grainstone | Few | Not fabric/ recrystallization reduces permeability |
| Low | VI | | | ation | Kirschberg evaporite member | AQ | 50 - 60 | Highly altered crystalline limestone; chalky mudstone; chert | Boxwork voids, with neospar and travertine frame | Probably extensive cave development | Majority fabric/one of the most permeable |
| | VII | | | Kainer Formation | Dolomitic member | AQ | 110 130 | Mudstone to grainstone; crystalline limestone; chert | Massively bedded light gray, <i>Toucasia</i> abundant | Caves related to structure or bedding planes | Mostly not fabric; some bedding plane- fabric/water-yielding |
| | VIII | | | × | Basal nodular member | Karst AQ: not karst CU | 50 – 60 | Shaly, nodular limestone; mudstone and miliolid grainstone | Massive, nodular and mottled, Exogyra texana | Large lateral caves at surface; a few caves near Cibolo Creek | Fabric; stratigraphically controlled/large conduit flow at surface; no permeability in subsurface |
| | Low confir un | ning | G | len F | | CU; evaporite beds AQ | 350 – 500 | Yellowish tan, thinly bedded limestone and marl | Stair-step topography; alternating limestone and marl | Some surface cave development | Some water production at evaporite beds/relatively impermeable |

| | LOCATIO | N | | | - | FE | ATU | REC | HARAC | TER | ISTICS | | | | EVALUATION | | | PHY | PHYSICAL SETTING | | | | | |
|---------|--------------|-------------|-----------------|--------|-----------|-------|--------|--------|--------------------|------|---------------------|--------------------|--------|----------------------------------|-----------------|------|----------------|------|-------------------|----------|-------------------|--|------------------|------------|
| 1 | 2* | 3* | 2A | 2B | 3 | | 4 | | 5 | 5 5A | | 7 | 8A | 8B | 9 | 9 10 | | 11 | | 12 | | | | |
| FEATURE | LATITUDE | LONGITUDE | FEATURE TYPE | POINTS | FORMATION | DIMEN | NSIONS | (FEET) | TREND (DEGREES) | DOM | DENSITY (NO/FT*) | APERTURE (FEET) | INFILL | RELATIVE INFILTRATION RATE | TOTAL SENSITIVI | | TOTAL SENS | | TOTAL SENSITIVITY | | TOTAL SENSITIVITY | | ENT AREA RES) | TOPOGRAPHY |
| | | | | | | Х | Y | Z | | 10 | | | | | | < 40 | <u>> 40</u> | <1.6 | >1.6 | | | | | |
| S-1 | N29° 43.218' | W98° 9.852' | МВ | 30 | Кер | 20 | 20 | 6 | - | v | | | N/C | 5 | 35 | 35 | | | Yes | Hillside | | | | |
| S-2 | N29º 43.224' | W98° 9.897' | MB | 30 | Кер | 3 | 3 | ? | | | - | | N/C | 5 | 35 | 35 | | Yes | | Hillside | | | | |
| S-3 | N29° 43.214' | W98° 9.863' | MB | 30 | кер | 3 | 3 | ? | | - | - | | N/C | 5 | 35 | 35 | | Yes | | Hillside | | | | |
| 5-4 | N29° 43.205' | W98° 9.835' | MB | 30 | Кер | 3 | 3 | ? | | - | - | | N/C | 5 | 35 | 35 | | Yes | | Hillside | | | | |
| S-5 | N29° 43,214' | W98° 9.832' | MB | 30 | Кер | 3 | 3 | ? | | - | | | N/C | 5 | 35 | 35 | | Yes | | Hillside | | | | |
| S-6 | N29° 43.219' | W98° 9.849' | МВ | 30 | Кер | 3 | 3 | 7 | | v | | | N/C | 5 | 35 | 35 | | Yes | | Hillside | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* DATUM 1983 North American Datum (NAD83)

| 2A TYPE | TYPE 2B | POINTS |
|---------|------------------------------------|--------|
| С | Cave | 30 |
| SC | Solution Cavity | 20 |
| SF | Solution-enlarged fracture(s) | 20 |
| F | Fault | 20 |
| 0 | Other natural bedrock features | 5 |
| MB | Manmade feature in bedrock | 30 |
| SW | Swallow Hole | 30 |
| SH | Sinkhole | 20 |
| CD | Non-karst closed depression | 5 |
| Z | Zone, clustered or aligned feature | s 30 |

| | 8A INFILLING | |
|----|---|--|
| N | None, exposed bedrock | |
| C | Coarse - cobbles, breakdown, sand, gravel | |
| 0 | Loose or soft mud or soil, organics, leaves, sticks, dark colors | |
| F | Fines, compacted clay-rich sediment, soil profile, gray or red colors | |
| V | Vegetation. Give details in narrative description | |
| FS | Flowstone, cements, cave deposits | |
| X | Other materials | |

12 TOPOGRAPHY Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

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

Signature Sieve Frost

Steve M. Frost

Geologate / Gugust 25, 2015 License No. 315/5 Sheet ____ 1 __ of ___ 1

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TCEQ-0585-TENER

August 25, 2015 Oak Run Commercial, Unit 2B

Geotechnical - Construction Materials - Forensics - Environmental

Page 5



LOCATION

The project site consists of 2.986 acres of land located along and north of Texas Highway 46 in New Braunfels, Texas. An overall view of the area is shown on copies of the site plan, a street map, the USGS Topographic Map, the Official Edwards Aquifer Recharge Zone Map, the Flood Insurance Rate Map (FIRM), a USDA Soil Survey Map, a geologic map, a 2014 aerial photograph at a scale of 1"=500', and a 2014 aerial photograph at a scale of 1"=500'. Plates 1 through 9 in Appendix A.

METHODOLOGY

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

Frost GeoSciences, Inc. researched the geology of the area in the immediate vicinity of the project site. The research included, but was not limited to a review of the Geologic Atlas of Texas, San Antonio Sheet, FIRM maps, Edwards Aquifer Recharge Zone Maps, USGS 7.5 Minute Quadrangle Maps, the Geologic Map of the Bulverde, Texas 30 X 60 Minute Quadrangle, the USGS Water-Resources Investigations Report 94-4117 and the USDA Soil Survey of Comal & Hays County, Texas.

After reviewing the available information, a field investigation was performed to identify any geologic or man-made potential recharge features. A transect spacing of approximately 50 feet or less, depending on vegetation thickness, was used to inspect the project site. A 2014 aerial photograph, in conjunction with a hand held Garmin 72H Global Positioning System with an Estimated Potential Error ranging from 8 to 10 feet, was used to navigate around the property and identify the locations of potential recharge features, as recommended in the "Instructions to Geologists", TCEQ-

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0585-Instructions (Rev. 10-1-04). The locations of any potential recharge features noted in the field were identified with blue and white flagging. The flagging is numbered with the same potential recharge feature I.D. # that is used on the Site Geologic Map in Appendix C of this report. The Site Geologic Map indicating the limits of the project site is included in Appendix C. A copy of a 2014 aerial photograph at an approximate scale of I*=200', indicating the locations of the potential recharge features, is included on Plate 9 in Appendix A. The Geologic Assessment Form (TCEQ-0585, Revised 10-01-10), Stratigraphic Column and the Geologic Assessment Table have been filled with the appropriate information for this project site and are included on pages 1-5 of this report.

RESEARCH & OBSERVATIONS

7.5 Minute Quadrangle Map Review

According to the USGS 7.5 Minute Quadrangle Map, New Braunfels West, Texas Sheet (1988), the elevation of the project site is approximately 870 feet. This elevation is calculated above mean sea level (AMSL). The surface runoff from the project site flows to the west into an unnamed tributary of Blieders Creek. State Highway 46 is located immediately south of the project site. Oak Run Parkway is located west of the project site. A copy of the above referenced USGS 7.5 Minute Quadrangle Map, indicating the location of the project site, is included in this report on Plate 3 in Appendix A.

Recharge / Transition Zone

According to Official Edwards Aquifer Recharge Zone Map, New Braunfels West, Texas Sheet (2014), the project site is located within the Recharge Zone of the Edwards Aquifer. A copy of Official Edwards Aquifer Recharge Zone Map, indicating the location of the project site, is included on Plate 4 in Appendix A.

100-Year Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for Comal County, Texas, Community Panel Number 48091C0435F (Revised 9/02/09) was reviewed to determine if the project site is located in areas prone to flooding. A review of the above-mentioned panel indicates that no portion of the project site is located within the 100 year floodplain. The project site is located within Zone X. According to the panel legend, Zone X represents areas determined to be outside the 0.2% annual chance floodplain. A copy of the Comal County, Texas, FIRM map, indicating the location of the project site, is included in this report on Plate 5 in Appendix A.

Soils

According to the United States Department of Agriculture, Soil Conservation Service, Soil Survey of Comal & Hays County, Texas (1982), the project site is located on the Rumple-Comfort Association (RUD). A copy of the 1973 aerial photograph (approximate scale: 1"=500') from the USDA Soil Survey of Comal & Hays County, Texas indicating the location of the project site and the soil types is included on Plate 9 in Appendix A.

The Rumple-Comfort Association (RuD) consists of shallow and moderately deep soils on uplands in the Edwards Plateau Land Resource Area. The surface layer of the Rumple Soil is dark reddish brown very cherty clay loam about 10 inches thick. Rounded chert and limestone cobbles and gravel cover about 20 percent of the surface. The subsoil to a depth of 14 inches is dark reddish-brown very cherty clay, and to a depth of 28 inches it is dark reddish-brown extremely stony clay. The underlying material is indurated fractured limestone. The Comfort Soil is dark brown, neutral, extremely stony clay about 7 inches thick. The subsoil to a depth of 12 inches is dark reddish-brown, mildly alkaline, extremely stony clay. The underlying material is indurated fractured limestone. The soil is noncalcareous throughout. The soils in this association are well drained. Surface runoff is medium, but varies due to the occurrence of caves, fracture zones, and sinks. Permeability is moderately slow. Water erosion is a moderate hazard.

> August 25, 2015 Oak Run Commercial, Unit 2B

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Narrative Description of the Site Geology

The project site exists as undeveloped land. The site was mowed and supported only minor amounts of vegetative cover with a thick stand of cut native grasses. No areas of natural rock outcrops were noted during the on-site inspection. The site appears to support a thick soil cover. The variations in the vegetative cover across the project site are visible in the 2009 aerial photographs on Plates 7 and 8 in Appendix A and in the site visit photographs included in Appendix B. One PRF's was identified during our site inspection.

S-I consists of a manmade feature in bedrock (MB) located along the northern fence line. This feature is a storm drain collector consisting of an area of internal drainage approximately 30 feet wide and 40 feet long. The feature is approximately 5 feet deep and empties into a storm drain pipe. The feature is lined with course boulder rubble to prevent erosion into the storm drain collector. This feature is not considered sensitive by FGS. This feature scores a 37 on the feature assessment table on page 5.

S-2 through S-6 consist of a manmade features in bedrock (MB). These are sanitary sewer manhole covers. These features are not considered sensitive by FGS. These features score a 35 on the feature assessment table on page 5.

According to the USGS 7.5 Minute Quadrangle Map, New Braunfels West, Texas Sheet (1988), the elevation of the project site is approximately 870 feet. This elevation is calculated above mean sea level (AMSL). According to topographic data obtained from Pawelek & Moy, Inc., the elevations on the project site range from 860 near the northwestern property corner to 875 feet near the southeastern property corner. A copy of the site plan, indicating the boundary of the project site and the elevations, is included on Plate I in Appendix A and on the Site Geologic Map in Appendix C of this report.

According to the WRI 94-4117 Geologic Map of Comal County, Texas, and the Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, the project site is covered by the Cyclic and Marine Member of the Cretaceous Edwards Person Limestone.

The Cyclic and Marine Member of the Cretaceous Edwards Person Limestone

August 25, 2015

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consists of mudstone to packstone and miliolid grainstone with chert. The member is characterized by massive beds of limestone to relatively thin beds of limestone with some crossbedding. The Cyclic and Marine Member forms a few caves some that are laterally extensive. Overall thickness ranges from 80 to 90 feet thick.

A copy of the WRI 94-4117 Geologic Map, indicating the location of the project site, is included on Plate 6a in Appendix A. A copy of the Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, indicating the location of the project site, is included on Plate 6b in Appendix A.

BEST MANAGEMENT PRACTICE (BMP)

Based on a visual inspection of the ground surface the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be low. The potential always exists to encounter subsurface features that lack a surface expression. Frost GeoSciences, Inc. recommends that we be included in the pre-construction meeting to inform construction personnel of the potential to encounter subsurface karst features during excavating activities. Construction personnel should also be informed of the proper protocol to follow in the event that a solution cavity and/or cave is encountered during the excavation and development of the property.

DISCLAIMER

This report has been prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04) by a Licensed Texas Professional Geoscientist. All areas of the project site were carefully inspected for features that could contribute to the recharge of the Edwards Aquifer, however, this survey cannot preclude the presence of subsurface karst features that lack surface expression. This report is not intended to be a definitive investigation of all possible geologic or karst features at this site. All conclusions, opinions and recommendations for Best Management Practices (BMP's) in this report are based on information obtained while

August 25, 2015 Oak Run Commercial, Unit 28 page 10 researching the project and on the site conditions at the time of our field investigation.

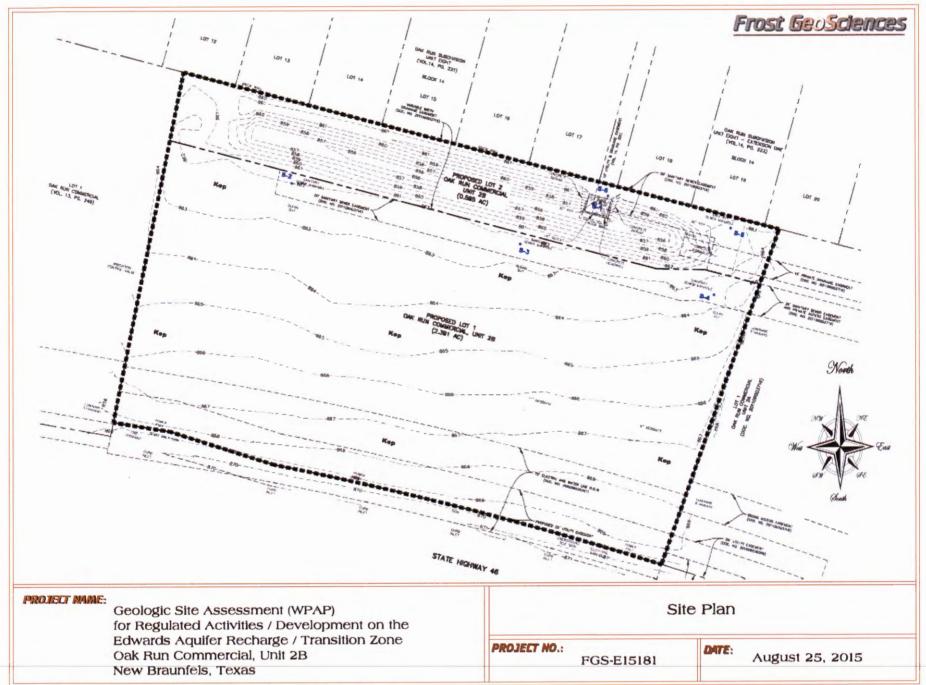
This report has been prepared for and may be relied upon by New Braunfels Investment Joint Venture, and Pawelek & Moy, Inc. This report is based on available known records, a visual inspection of the project site and the work generally accepted for a Geologic Assessment TAC §213.5(b)(3), effective June 1, 1999.

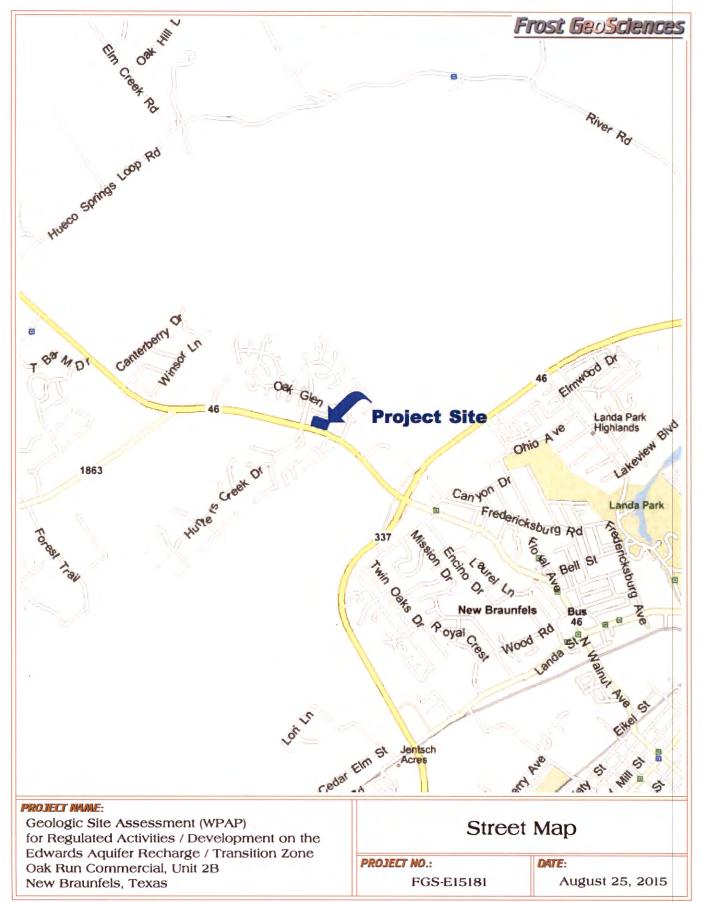
REFERENCES

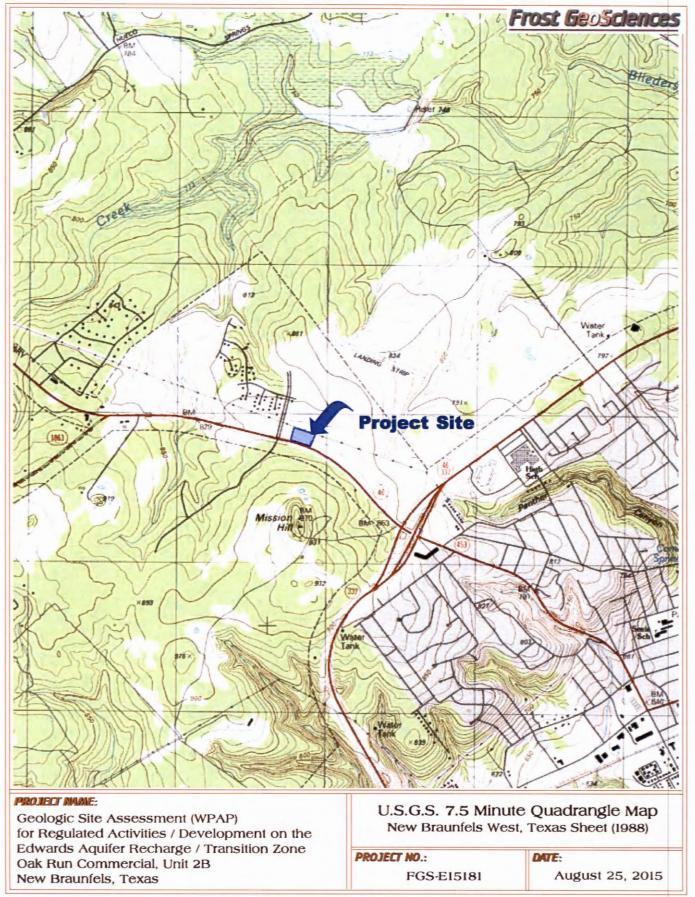
- 1) USGS 7.5 Minute Quadrangle Map, New Braunfels West, Texas Sheet (1988),
- 2) Official Edwards Aquifer Recharge Zone Map, New Braunfels West, Texas Sheet (2014).
- 3) Small T.A. and Hanson J.A., 1994, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Comal County, Texas. U.S. Geological Survey Water Resources Investigations 94-4117.
- 4) Collins, Edward, W., 2000, Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle.
- 5) Federal Emergency Management Agency (FEMA), Bexar County, Texas and Incorporated Areas, Flood Insurance Rate Map (FIRM), Panel 48091C0435F (9/02/09) FEMA, Washington D.C.
- 7) USDA Soil Conservation Service, Soil Survey of Comal & Hays Counties, Texas (1982).
- 8) TCEQ-0585-Instructions (Rev. 10-1-04). "Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zone".

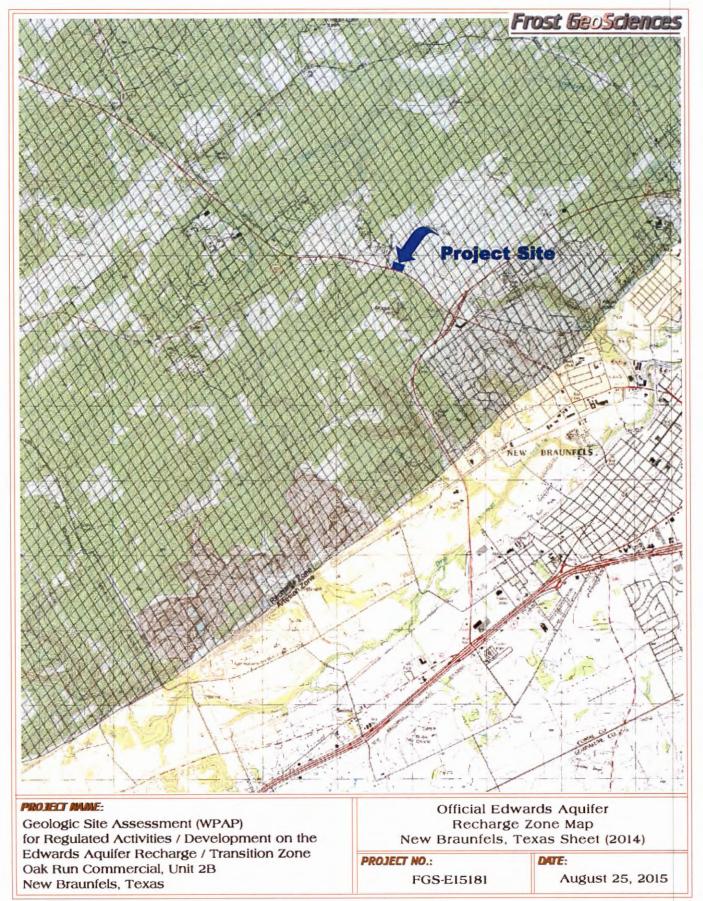
Appendix A

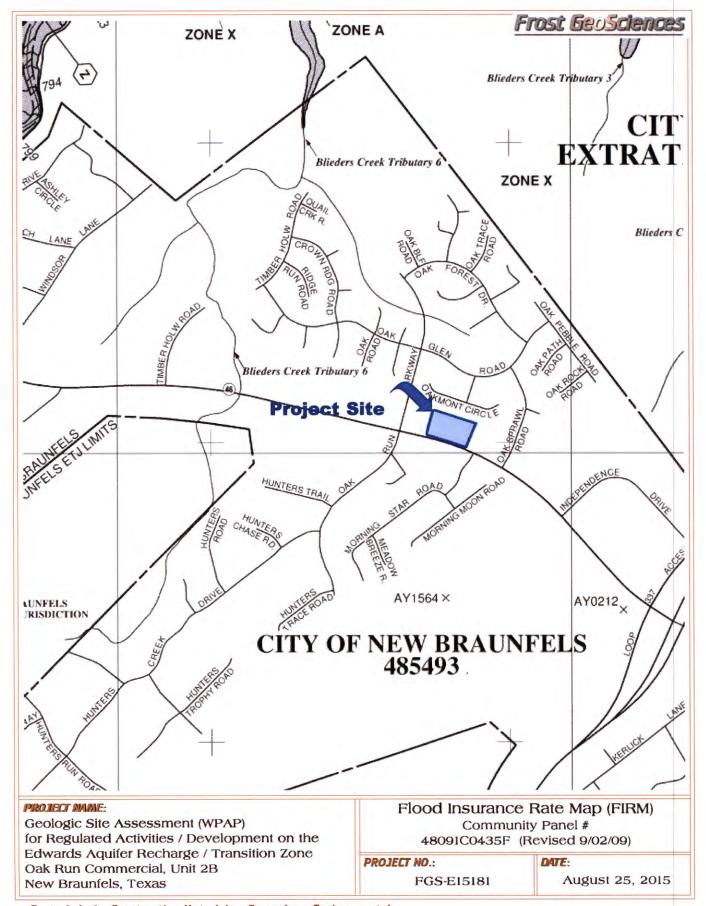
Site Location Plates

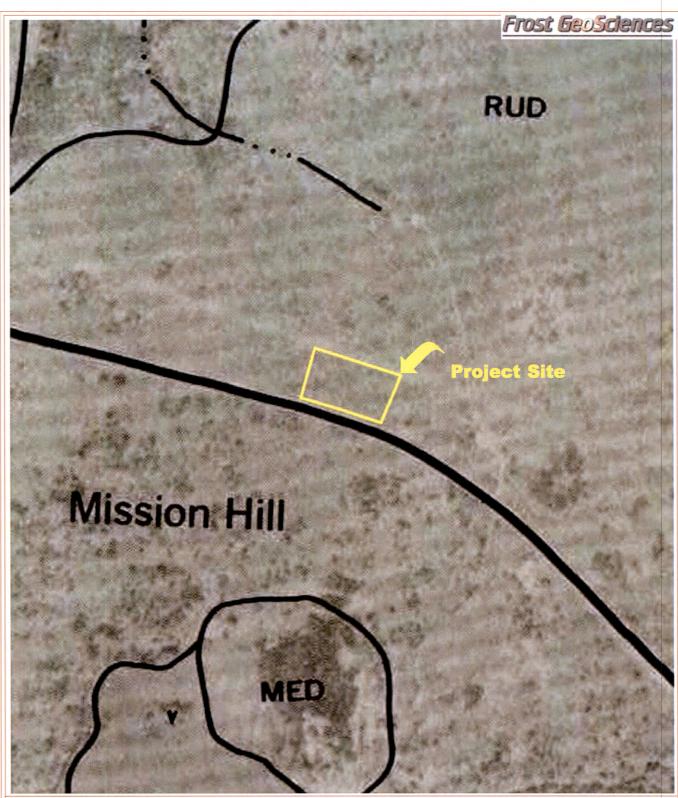












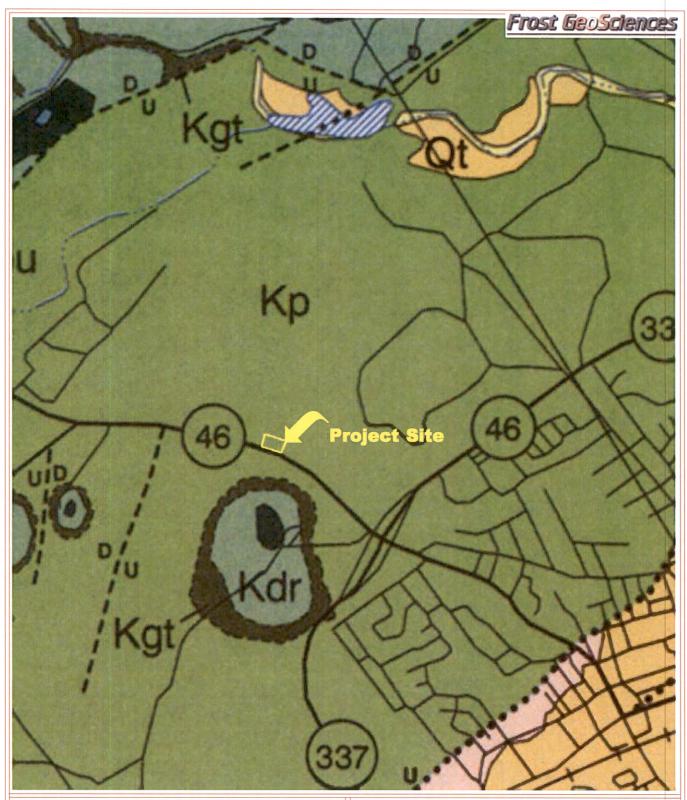
Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Oak Run Commercial, Unit 2B New Braunfels, Texas

1973 Aerial Photograph

Soil Survey of Comal & Hays County, Texas United States Department of Agriculture

PROJECT NO.:

FGS-E15181



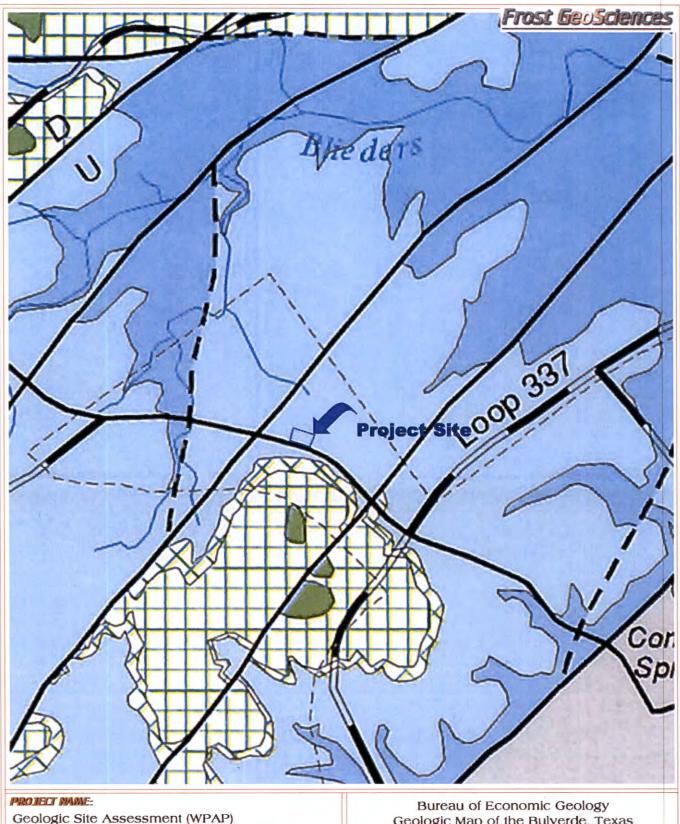
PROJECT NAME:

Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Oak Run Commercial, Unit 2B New Braunfels, Texas

Bureau of Economic Geology Geologic Map of the Bulverde, Texas 30 X 60 Minute Quadrangle (2000)

PROJECT NO .:

FGS-E15181



Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Oak Run Commercial, Unit 2B New Braunfels, Texas

Geologic Map of the Bulverde, Texas 30 X 60 Minute Quadrangle (2000)

PROJECT NO .:

FGS-E15181



PROJECT NAME:

Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Oak Run Commercial, Unit 2B New Braunfels, Texas

2014 Aerial Photograph National Agricultural Imagery Program

PROJECT NO .:

FGS-E15181



PROJECT NAME:

Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Oak Run Commercial, Unit 2B New Braunfels, Texas

2014 Aerial Photograph with PRF's National Agricultural Imagery Program

PROJECT NO .:

FGS-E15181

Appendix B

Site Inspection Photographs

Geotechnical - Construction Materials - Forensics - Environmental

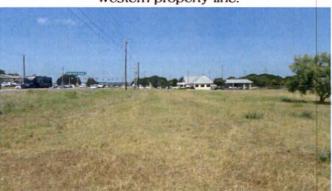
View to the east, of the project site along the southern property line.



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



View to the northeast, across the central portion of the project site.



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



View to the northwest, across the central portion of the project site.



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



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



View to the southwest, across the central portion of the project site.



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



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



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



View to the southeast, across the central portion of the project site.



View of potential recharge feature # S-1.



View of potential recharge feature # S-2.



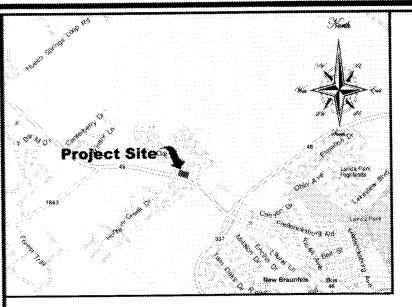
View of potential recharge feature # S-3.



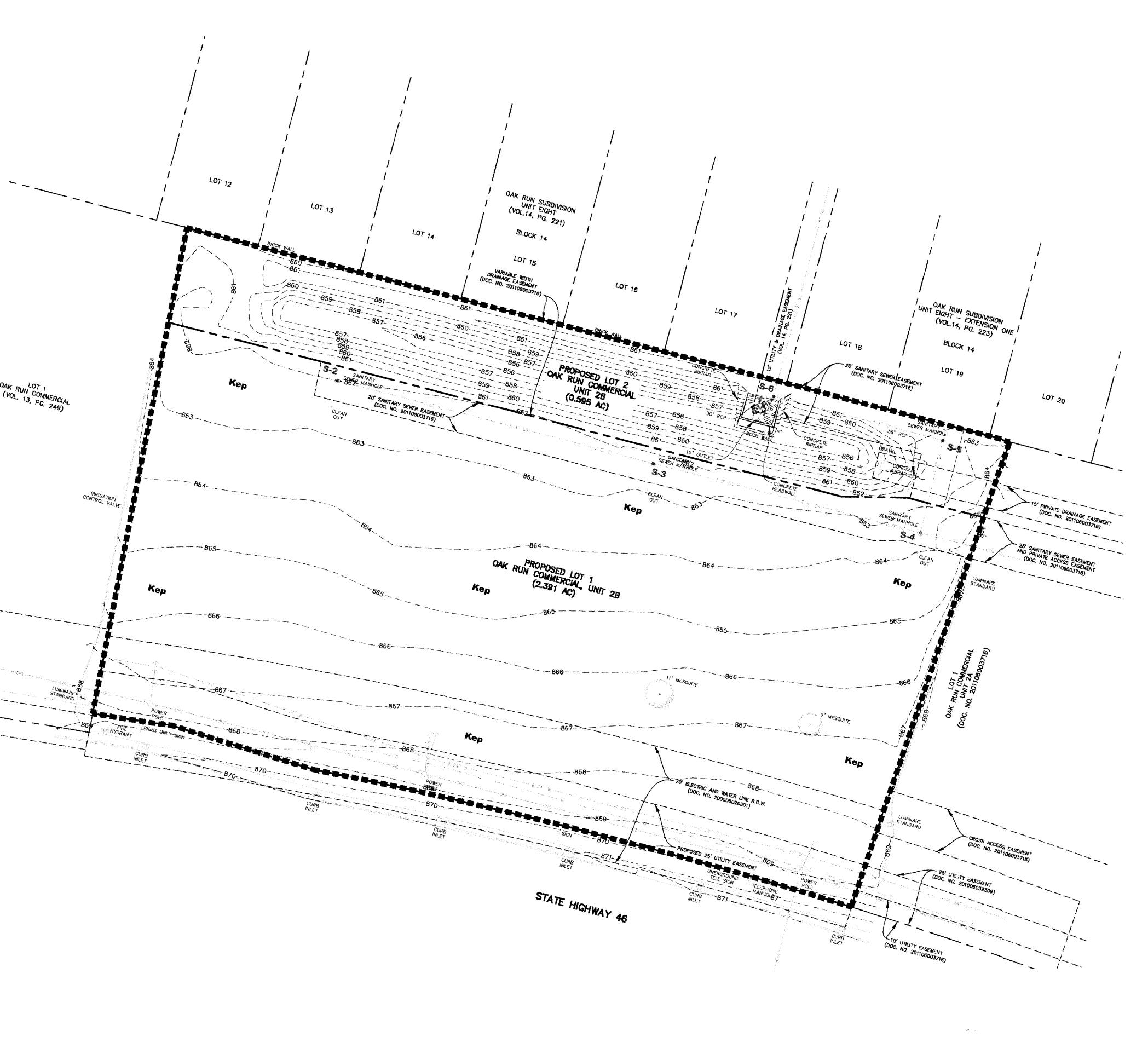
View of potential recharge feature # S-4.

Appendix C

Site Geologic Map



Location Map





Geotechnical • Construction Materials Environmental & Geologic Consulting SDVOSB • VBE • DIBE • SBE 13402 Western Oak Dr. • Helotes, Texas 78023 Phone: 210/3724315 • Fax 210/3724318

Site Geologic Map

Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone

Oak Run Commercial, Unit 2B Texas Highway 46 - 2.986 Acres New Braunfels, Texas

Frost GeoSciences, Inc. Control # FGS-E15181

Legend

Fill - Fill Materi

gal - Alluvium

Kau - Ausun Cha

Chu - Lugio Ford Shi

Kdr - Del Rio Clay

Kgt - Georgetown Limestone

Kep - Edwards Person LimestoneKek - Edwards Kainer Limestone

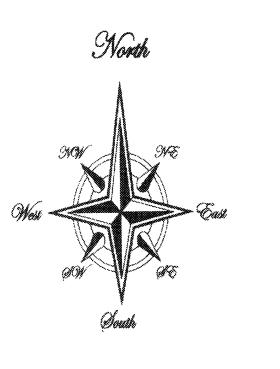
Kgr - Glen Rose Formation

S# - Potential Recharge Feature (PRF)

Formation Contact

Floodplain Information Obtained From FIRM: Flood Insurance Rate Map Comal County, Texas: Panel # 48091C0435F, Revised 9/02/09

Fault Information Obtained From:
Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet (1983)
U.S. Geological Survey, Water Resources Investigations Report 94-4117 (1994)
Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle (2000)



Steve Frost, TPG# 315, AIPG # 10176 TBPG Firm # 50040 / TBPE Firm # F9227 Graphic Scale

o 15 30 60

,

1 inch = 30 feet Representative Fraction 1:360

Contour Interval - 1 foot

Water Pollution Abatement Plan **Application**

Texas Commission on Environmental Quality

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

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aguifer. This Water Pollution Abatement Plan Application Form is hereby submitted for TCEQ ed by:

| review and Executive Director approval. The form was prepar |
|---|
| Print Name of Customer/Agent: Daryl D. Pawelek (Agent) |
| Date: <u>2-28-15</u> |
| Signature of Customer/Agent: |
| Regulated Entity Name: Oak Run Commercial, Unit 2B |
| Regulated Entity Information |
| 1. The type of project is: |
| Residential: Number of Lots: Residential: Number of Living Unit Equivalents: X Commercial Industrial Other: |
| 2 Total site acreage (size of property): 2.986 acres |

- Iotal site acreage (size of property): 2
- 3. Estimated projected population: Retail Center Approximately 99 seats
- 4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

| Impervious Cover of Proposed Project | Sq. Ft. | Sq. Ft./Acre | Acres |
|--------------------------------------|---------|--------------|-------|
| Structures/Rooftops | 21,903 | ÷ 43,560 = | 0.503 |
| Parking | 58,796 | ÷ 43,560 = | 1.350 |
| Other paved surfaces | 8,990 | ÷ 43,560 = | 0.206 |
| Total Impervious Cover | 89,689 | ÷ 43,560 = | 2.059 |

Total Impervious Cover 2.059 ÷ Total Acreage 2.986 X 100 = 68.95 % Impervious Cover

- 5. Attachment A Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
- 6. 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.): feet. |
| | Width of R.O.W.: feet. $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$ |
| 10. | Length of pavement area: feet. |
| | Width of pavement area: feet. L x W = $Ft^2 \div 43,560 Ft^2/Acre = acres$. Pavement area acres \div R.O.W. area acres x $100 =$ % impervious cover. |
| 11. | A rest stop will be included in this project. |
| | A rest stop will not be included in this project. |

| 12. | Maintenance and repair of existing roadways TCEQ Executive Director. Modifications to exist roads/adding shoulders totaling more than or lane require prior approval from the TCEQ. | sting roadways such as widening |
|---------|--|---|
| Stor | mwater to be generated by t | he Proposed Project |
| 13. X | Attachment B - Volume and Character of Storvolume (quantity) and character (quality) of the occur from the proposed project is attached. quality and quantity are based on the area and runoff coefficient of the site for both pre-const | ne stormwater runoff which is expected to The estimates of stormwater runoff d type of impervious cover. Include the |
| Was | tewater to be generated by t | he Proposed Project |
| 14. The | e character and volume of wastewater is shown | n below: |
| | 0_% Domestic % Industrial % Commingled TOTAL gallons/day 4,880 | 4,880 Gallons/dayGallons/dayGallons/day |
| 15. Wa | stewater will be disposed of by: | |
| | On-Site Sewage Facility (OSSF/Septic Tank): | |
| | Attachment C - Suitability Letter from Aut will be used to treat and dispose of the war licensing authority's (authorized agent) which land is suitable for the use of private so the requirements for on-site sewage facility relating to On-site Sewage Facilities. Each lot in this project/development is at I size. The system will be designed by a licensed insta 285. | istewater from this site. The appropriate itten approval is attached. It states that ewage facilities and will meet or exceed ties as specified under 30 TAC Chapter 285 east one (1) acre (43,560 square feet) in nsed professional engineer or registered |
| X | Sewage Collection System (Sewer Lines): | |
| | Private service laterals from the wastewate to an existing SCS.Private service laterals from the wastewate 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 installed prior to Executive Director approximately. | n. The owner is aware that the SCS may not |

| Gruene Road Sewage X The sewage collection system will convey the wastewater to the (name) |
|--|
| Treatment Plant. The treatment facility is: |
| X Existing. Proposed. |
| 16. X All private service laterals will be inspected as required in 30 TAC §213.5. |
| Site Plan Requirements |
| Items 17 – 28 must be included on the Site Plan. |
| 17. X The Site Plan must have a minimum scale of 1" = 400'. |
| Site Plan Scale: $1'' = 30$. |
| 18. 100-year floodplain boundaries: |
| Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled. |
| X 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 MAP PANEL NO. 48091C0435F, Effective date 09/02/2009 |
| 19. X The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan. |
| The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan. |
| 20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.): |
| There are (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply) |
| The wells are not in use and have been properly abandoned. The wells are not in use and will be properly abandoned. The wells are in use and comply with 16 TAC §76. |
| X There are no wells or test holes of any kind known to exist on the project site. |
| 21. Geologic or manmade features which are on the site: |
| All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled. |
| X No sensitive geologic or manmade features were identified in the Geologic Assessment. |
| Attachment D - Exception to the Required Geologic Assessment. A request and justification for an exception to a portion of the Geologic Assessment is attached. |

22. X The drainage patterns and approximate slopes anticipated after major grading activities.
23. X Areas of soil disturbance and areas which will not be disturbed.
24. X 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. X Surface waters (including wetlands).
N/A
27. X Locations where stormwater discharges to surface water or sensitive features are to occur.
There will be no discharges to surface water or sensitive features.
28. X Legal boundaries of the site are shown.

Administrative Information

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

WATER POLLUTION ABATEMENT PLAN APPLICATION

5. Attachment A - Factors Affecting Water Quality

The potential sources of contamination on the proposed project include, but are not limited to, hydrocarbons, such as oil and grease, vehicle/machinery fluid leaks, trash or debris, and fertilizers and soil runoff.

All construction equipment will be fueled off-site, and no hazardous materials shall be utilized for the construction of the proposed improvements. Portable toilets will be placed on site for use by construction workers during construction activities. All waste will be hauled off site daily, as generated.

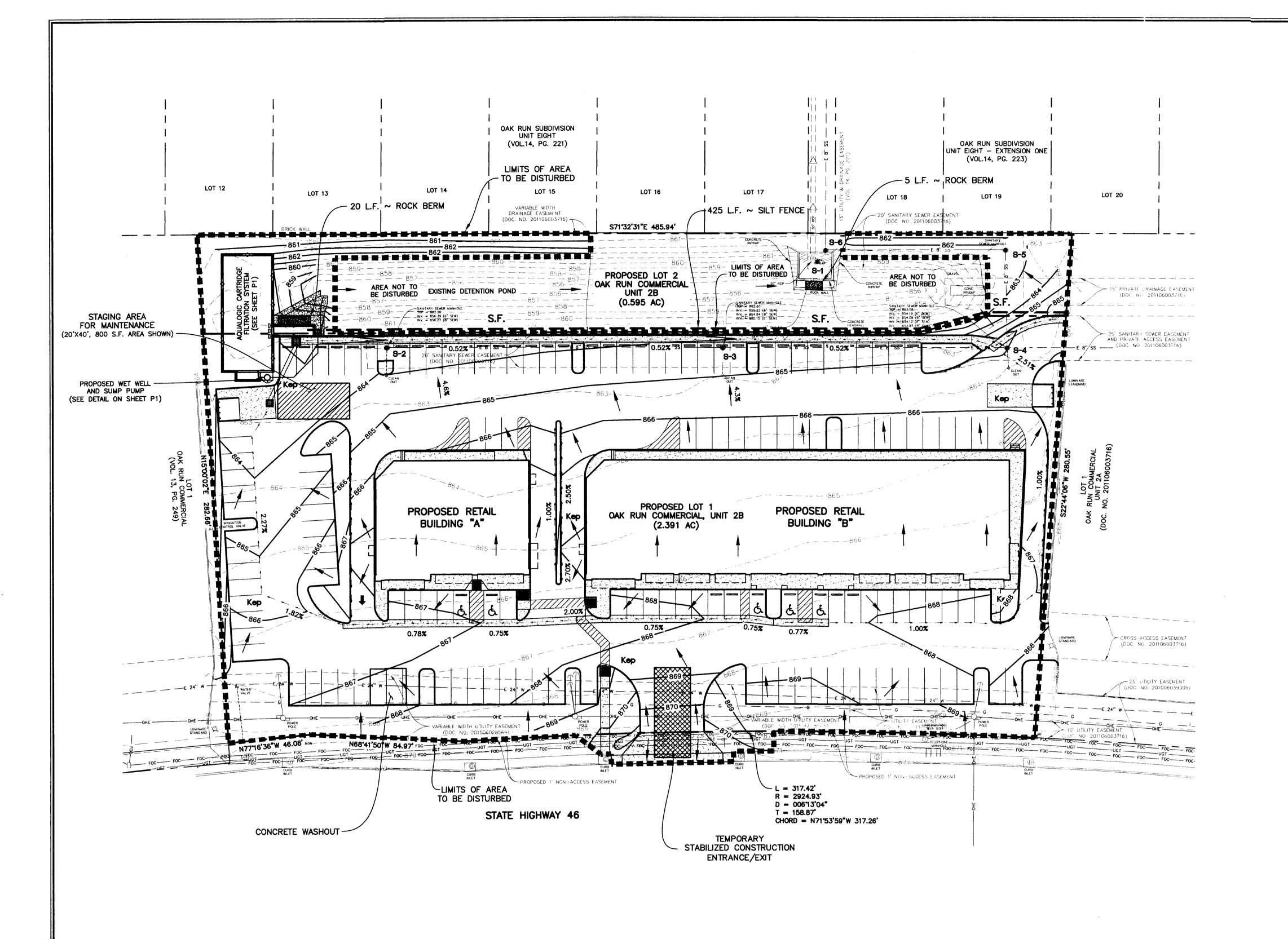
Prior to any construction activity, stormwater pollution prevention controls shall be installed and these controls include silt fence along the rear of the Proposed Lot 1, a rock berm just downstream of the proposed water quality basin outfall, a rock berm at the existing detention pond outfall, the installation of a stabilized construction entrance/exit to reduce sediment removal from the site. The construction contractor will be responsible for the installation, repair and upkeep of all control measures.

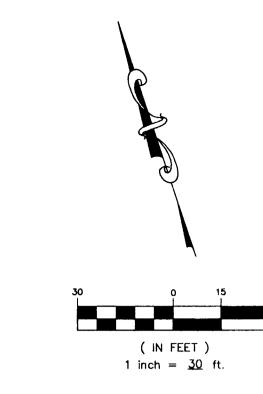
After construction is complete and the site has been built, the factors affecting water quality will include runoff from the roofs, paved areas, sidewalks and greenbelt areas. Chemicals that may be present include pesticides and fertilizers for the greenbelt areas as well as miscellaneous oils or fuels from vehicles utilizing the drives. However, the stormwater runoff from these areas will be treated by the proposed Aqualogic Cartridge Filtration System as shown on the Site Plan, Sheet S1.

13. Attachment B - Volume and Character of Stormwater

The stormwater runoff generated from this site will consist of runoff from the roofs, paved areas, sidewalks and greenbelt areas. The runoff may contain small amounts of suspended solids, fertilizers/pesticides for the greenbelt areas or oils/fuel that would be associated with vehicles entering/exiting and/or being stored on the site. The average runoff coefficient for the site is $C_{10pre} = 0.38$ due to the existing improvements and the average Post-Construction runoff coefficient is $C_{10post} = 0.68$. Based on the BMP calculations provided in this submittal, there will be a Water Quality Volume of 8,729 cf required, and 8,856 cf has been provided in the design of the Aqualogic Cartridge Filtration System. Prior to exiting the site, the storm water runoff will be conveyed to a detention pond which will aid in the sedimentation of solids and improve the overall water quality.

SITE PLAN





LEGEND

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXIT

ROCK BERM

CONCRETE WASHOUT

EXISTING FLOW DIRECTION

EXISTING CONTOURS

PROPOSED CONTOURS

- PROPERTY LINE

POTENTIAL RECHARGE FEATURE (PRF)

EDWARDS PERSON LIMESTONE

LIMITS OF AREA TO BE DISTURBED

IMPERVIOUS COVER SUMMARY

| IMPERVIOUS COVER OF PROJECT S | SITE | Sq. Ft. | Sq. Ft./Acre | Acres |
|---|------|---------|--------------|-------|
| STRUCTURES/ROOFTOPS | | 21,903 | ÷ 43,560 = | 0.503 |
| PARKING | | 58,796 | ÷ 43,560 = | 1.350 |
| CONCRETE/SIDEWALKS/DRIVES | | 8,990 | ÷ 43,560 = | 0.206 |
| TOTAL IMPERVIOUS COVER | | 89,689 | ÷ 43,560 = | 2.059 |
| TOTAL IMPERVIOUS COVER ÷ TOTAL ACREAGE x 100 = 68 | | | 68.96 % | |

TOTAL PROJECT SITE ACREAGE = 2.986 Ac.

DRAWN BY: D.G. III CHECKED BY: D.D.P.

DATE: AUGUST 2015

1505.02

JOB NO.:

CIVIL ENC NEERING & CONSULT: 3 SERVICES

FIRM No. F-9862

130 W. JAHN REET NEW BRAUN. LS, TX 78130

TEL: (830) 629 2563

1. SEE DRAINAGE AREA MAP SHEET D1 FOR OVERALL DRAINAGE AREAS.

SOIL STABILIZATION NOTE;
IN ALL AREAS TO BE DISTURBED OUTSIDE OF THE LIMITS OF THE BUILDING, PAVING,
SIDEWALKS, LANDSCAPING, ETC., VEGETATIVE STABILIZATION IN ACCORDANCE WITH RG-348
COMPLYING WITH THE EDWARDS AQUIFER RULES, ITEM 1.3.8—TEMPORARY VEGETATION, ITEM 1.3.9-BLANKETS AND MATTING, ITEM 1.3.10-HYDRAULIC MULCH AND/OR ITEM 1.3.11 SOD SHALL BE IMPLEMENTED. THE AREAS TO BE VEGETATED SHALL BE WATERED SUFFICIENTLY TO ESTABLISH 70% STABILIZATION.

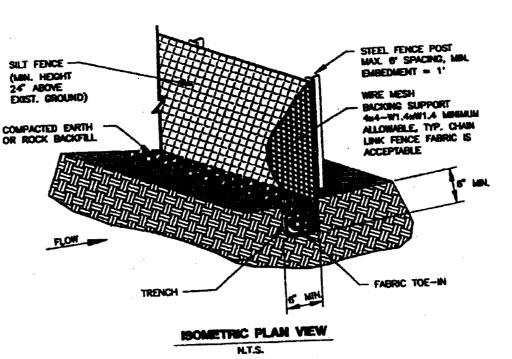
FLOODPLAIN NOTE:

ACCORDING TO FEMA FIRM MAP PANEL No. 48091C0435F, EFFECTIVE DATE 9/2/2009, THE PROJECT SITE LIES OUTSIDE THE 100 YR FLOODPLAIN.

Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes

- Written construction notification must be given to the appropriate TCEQ regional office no later than 48 hours prior to 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.
- All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. The regulated activities near the sensitive feature may not proceed until the TCEQ has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.
- No temporary aboveground hydrocarbon and hazardous substance storage tank system is installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- Prior to commencement of construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturers specifications and good engineering practices. Controls specified in the temporary storm water section of the approved Edwards Aquifer Protection Plan are required during construction. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. The controls must remain in place until disturbed areas are revegetated and the areas have become permanently stabilized.
- 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).
- Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake must be provided that can indicate when the sediment occupies 50% of the basin volume.
- 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
- All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of 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.
- The following records shall be maintained and made available to the TCEQ upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are
- 12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the
 - any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

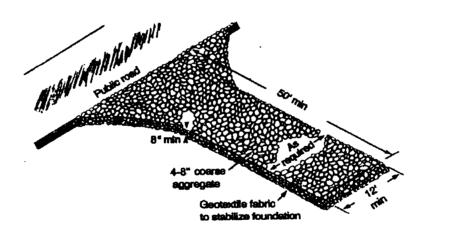
| Austin, Texas 78704-5712 | San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329 |
|--------------------------|---|
|--------------------------|---|



- (1) The berm structure should be secured with a woven wire sheathing having maximum opening of 1 inch and a minimum wire diameter of 20 gauge galvanized and should be secured with shoat rings.
- (2) Clean, open graded 3- to 5-inch diameter rock should be used, except in areas where high velocities or large volumes of flow are expected, where 5- to 8-inch diameter rocks may be used.

- (1) Lay out the woven wire sheathing perpendicular to the flow line. The sheathing should be 20 gauge woven wire mesh with 1 inch openings.
- (2) Berm should have a top width of 2 feet minimum with side slopes being 2:1
- (3) Place the rock along the sheathing as shown in the diagram (Figure 1-1), to a height not less than 18".
- (4) Wrap the wire sheathing around the rock and secure with tie wire so that the ends of the sheathing overlap at least 2 inches, and the berm retains its shape when
- (5) Berm should be built along the contour at zero percent grade or as near as
- (6) The ends of the berm should be tied into existing upslope grade and the berm should be buried in a trench approximately 3 to 4 inches deep to prevent failure of





Schematic of Temporary Construction Entrance/Exit

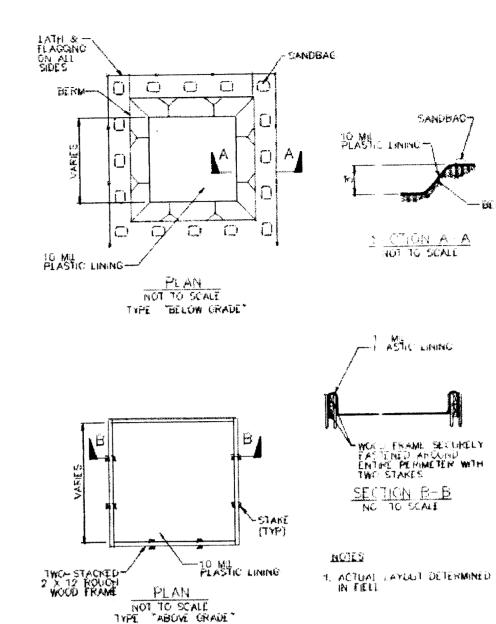


Cross-section of a Construction Entrance/Exit

- (1) The aggregate should consist of 4 to 8 inch washed stone over a stable foundation
- as specified in the plan. (2) The aggregate should be placed with a minimum thickness of 8 inches.
- The geotextile fabric should be designed specifically for use as a soil filtration media with an approximate weight of 6 oz/yd2, a mullen burst rating of 140 lb/in2 and an equivalent opening size greater than a number 50 sieve.
- (4) If a washing facility is required, a level area with a minimum of 4 inch diameter washed stone or commercial rack should be included in the plans. Divert wastewater to a sediment trap or basin.

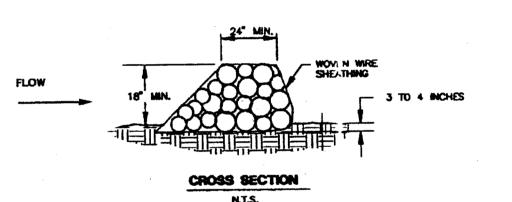
- Avoid curves on public roads and steep slopes. Remove vegetation and other objectionable material from the foundation area. Grade crown foundation for positive drainage.
- (2) The minimum width of the entrance/exit should be 12 feet or the full width of exit roadway, whichever is greater.
- The construction entrance should be at least 50 feet long.
- (4) If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 (H:V) side slopes, across the foundation approximately 15 feet from the entrance to divert runoff away from the public road.
- (5) Place geotextile fabric and grade foundation to improve stability, especially where wet conditions are anticipated.
- (6) Place stone to dimensions and grade shown on plans. Leave surface smooth and slope for drainage.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or
- (8) Install pipe under pad as needed to maintain proper public road drainage.

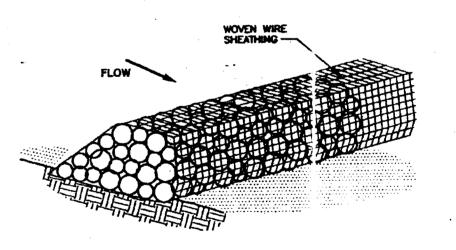
TEMPORARY CONSTRUCTION ENTRANCE/EXIT DETAIL



-) LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES, ER WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
- 2) WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THE 4 DISPOSED OF PROPERLY. 3) PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULL. 3E FREE OF HOLES, TEARS,
- 4) WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF PROPERLY. MATERIALS USED TO CONSTRUCT THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF PROPERLY.
- 5) HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES
- 6) SEE TCEQ RG-348 SECTION 1.4.18 CONCRETE WASHOUT AREAS FOR ANY ADDITIONAL INFORMATION.

CONCRETE WASHOUT DET, AL





ISOMETRIC PLAN VIEW

(1) The berm structure should be secured with a woven wire sheathing having maximum opening of 1 inch and a minimum wire diameter of 20 gauge galvanized and should be secured with shoat rings.

N.T.S.

(2) Clean, open graded 3- to 5-inch diameter rock should be used, except in areas where high velocities or large volumes of flow are expected, where 5- to 8-inch diameter rocks may be used.

- (1) Lay out the woven wire sheathing perpendicular to the flow line. The sheathing should be 20 gauge woven wire mesh with 1 inch oper ngs.
- (2) Berm should have a top width of 2 feet minimum with side slopes being 2:1
- (3) Place the rock along the sheathing as shown in the diagram (Figure 1-1), to a height not less than 18".
- (4) Wrap the wire sheathing around the rock and secure with the wire so that the ends of the sheathing overlap at least 2 inches, and the berm retains its shape when
- Berm should be built along the contour at zero parcent grade or as near as
- (6) The ends of the berm should be tied into existing topslope grade and the berm should be buried in a trench approximately 3 to 4 inches deep to prevent failure of the control.

ROCK BERM DETAIL

CIVIL ENGINEERING & CONSULTING SERVICES 130 W. JAHN STREET

NEW BRAUNFELS, TX 78130 TEL: (830) 629-2563 FIRM No. F-9862

4

D.G. III DRAWN BY: CHECKED BY: J.J.M.

DATE: AUGUST 2015 JOB NO.: 1505.02

S2 OF 2

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

| Date: 8-2e-15 |
|--|
| Signature of Customer/Agent: |
| QDDRC |
| Regulated Entity Name: Oak Run Commercial, Unit 2B |

Print Name of Customer/Agent: Daryl D. Pawelek (Agent)

Project Information

Potential Sources of Contamination

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

| 1. | Fuels for construction equipment and hazardous substances which will be used during construction: |
|----|--|
| | The following fuels and/or hazardous substances will be stored on the site: |
| | These fuels and/or hazardous substances will be stored in: |
| | Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year. |

- Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
 Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- X Fuels and hazardous substances will not be stored on the site.
- 2. X Attachment A Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. X 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. X Attachment B Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. X Attachment C Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - X For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - X For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. X 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: Site drains to an existing detention pond that discharges into a storm drain then to an Un-Named Tributary of the Blieder's Creek.

Temporary Best Management Practices (TBMPs)

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

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

| | X A description of how BMPs and measures will prevent pollution of surface wa groundwater or stormwater that originates upgradient from the site and flow across the site. X A description of how BMPs and measures will prevent pollution of surface wa groundwater that originates on-site or flows off site, including pollution cause contaminated stormwater runoff from the site. | er or d by |
|-----|--|----------------|
| | A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer. A description of how, to the maximum extent practicable, BMPs and measure 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 red to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided. | - |
| | Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reason and practicable alternative exists for each feature. X There will be no temporary sealing of naturally-occurring sensitive features on site. | onable |
| 9. | Attachment F - Structural Practices. A description of the structural practices that used to divert flows away from exposed soils, to store flows, or to otherwise limit discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided. | |
| 10. | Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached: | g |
| | 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 prote down slope and side slope boundaries of the construction area. There are no areas greater than 10 acres within a common drainage area that 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 disturbage area. | ect will be |

- X There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
 - X N/A
- 12. X Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. 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. NA 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. X 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.

- 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. X 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.

TEMPORARY STORMWATER SECTION

Attachment A – Spill Response Actions

Regarding spill prevention and control of a spill that may occur on this 2.986 acre site, found directly behind this sheet is copy of Section 1.4.16 of the Texas Commission on Environmental Quality (TCEQ) "Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices, pages 1-118 through 1-121, Spill Prevention and Control which covers necessary procedures for spill prevention and control. In the event of a significant or hazardous spill (per the attached TCEQ criteria and guidelines) the contractor or construction personnel shall 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.

(See Spill Prevention and Control information on the following sheets)



RG-348 Revised July 2005

Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices

1.4.16 Spill Prevention and Control

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

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

Education

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

General Measures

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

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

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- 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 runon of stormwater and the runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trasheans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

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

4. Attachment B - Potential Sources of Contamination

Potential Sources of contamination may include items such as: asphaltic products being used for paving operations, construction vehicles tracking sediment onto public roads and litter/debris that is produced from the general construction site. It will be the contractor's responsibility to maintain erosion/sedimentation controls to limit/prevent contaminants from escaping the site and also to pick up general litter/debris across the site.

5. Attachment C - Sequence of Major Activities

The following is a sequence of major activities which will involve soil disturbance along with an estimate of the area of the site to be disturbed by each activity:

| Sequence No. | Description of Soil Disturbing Activity | to be Disturbed by each Activity (Acres ~ Total) | Temporary Control Measure |
|-----------------|---|--|---|
| 1 | Prior to Construction | - | Temporary Construction Entrance/Exit Installation Installation of Concrete Washout area. Perimeter Silt Fence Installations along north property line of Lot 1. Rock Berm Installations in existing detention pond. |
| 2 | Clearing/Grubbing/Con struction Staging (For Proposed Buildings, Parking Area, and Water Quality Basin) | 2.64 ac | 1.Maintain Perimeter Silt Fence 2.Maintain Rock Berms |
| 3 | Excavation and Grading (Proposed Building, Aqualogic Cartridge Filtration System Basin, Sidewalks, Parking, Drives) | 2.64 ac | Maintain Rock Berms Maintain Silt Fence. Maintain Construction Entrance/Exit |
| 4 | Final Paving and Sidewalks. Final Stabilization. | 2.64 ac | Maintain all rock berms. Maintain all silt fence. Final stabilization of disturbed areas. Removal of temporary controls upon final stabilization. |

7. Attachment D - Temporary Best Management Practices and Measures

The Temporary Best Management Practices (TBMPs) that will be used for this development are rock berms, silt fences, a concrete washout area and a temporary construction entrance/exit in accordance with the Site Plan. The temporary controls (i.e. rock berms, silt fences, temporary construction entrance/exit and the concrete washout area) shall be in place prior to construction activities and will be maintained by the contractor during construction. The controls shall be removed by the contractor when vegetation is established on all exposed or disturbed areas.

- a. The area upgradient of the site is the grass sloped area between the existing sidewalk along SH 46 in TxDOT right of way, and the small section of proposed sidewalk to connect the SH 46 sidewalk to the site. This area will sheet flow into the site and into the proposed parking and be conveyed to the water quality basin with the proposed parking lot drainage. This stormwater will be controlled and filtered by rock berms and silt fence on the down gradient side of the areas of disturbance.
- b. The stormwater that originates on-site will be controlled and filtered by rock berms and silt fences on the down gradient side of the areas of disturbance. The rock berms and silt fences will reduce the velocity of the water and allow the sediment to settle out and be trapped by the control device. After a significant rainfall event, it will be the contractor's responsibility to remove the sediment and debris that is captured.
- c. The BMPs will prevent pollutants from entering surface streams, sensitive features (no sensitive features present on this site), or the aquifer by capturing the silts and sediments through the utilization of the previously mentioned control devices such as silt fence and rock berms. These devices are located such that they capture the silts and sediment prior to entering the surface streams, etc. where they would otherwise be carried downstream. The settlement of the silts and sediment is due to the reduction of the velocity of the water.
- d. There were no sensitive features located on the site. However, previously described temporary measures will be maintained and incorporated where necessary to prevent contamination of stormwater runoff. In the event a sensitive feature is discovered during construction, the contractor or construction personnel shall 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. At that point an assessment will be made with the TCEQ as to how to best protect what was discovered.

9. Attachment F - Structural Practices

The structural practices that will be used for temporary erosion/sediment control for this development are rock berms, silt fence, a temporary construction entrance/exits and a concrete washout area. The rock berms and silt fence will allow the silts and sediment to settle out prior to discharging into surface streams or sensitive features (no sensitive features present on this site).

10. Attachment G - Drainage Area Map

The drainage area map can be found at the end of this section.

12. Attachment I – Inspection and Maintenance for BMP's

A. Rock Berm Inspection and Maintenance Guidelines:

- Inspection shall be made weekly and after each rainfall by the contractor.
- 2) All debris and sediment shall be removed when buildup reaches 6 inches and this accumulated debris/sediment shall be disposed in an approved site and in a manner as to not introduce additional siltation.
- 3) Any loose wire sheathing shall be repaired.
- 4) During the inspection, the berm shall be reshaped as needed.
- 5) The berm shall be replaced when the structure does not function as intended due to silt accumulation, construction traffic, etc.
- 6) The rock berm shall be left in place until all upstream disturbed areas are stabilized and the accumulated silt has been removed.

B. Silt Fence Inspection and Maintenance Guidelines:

- Inspection shall be made weekly and after each rainfall by the contractor.
- 2) All sediment shall be removed when buildup reaches 6 inches.
- Any torn fabric shall be replaced or a new line of fencing shall be installed parallel to the torn section.
- 4) Replace or repair areas of silt fence that have been damaged due to construction activity, vehicular access, etc. and if the silt fence is

located in an area of high construction traffic, relocate to an area that will provide equal protection but will not obstruct vehicular movements.

C. Temporary Construction Entrance/Exit:

- 1) The entrance shall be maintained in a way that will prevent tracking of sediment onto the public right-of-way.
- Any sediment dropped, spilled, washed or tracked on to the public right of way shall be immediately removed by the contractor.
- 3) When applicable, wheels shall be washed to remove sediment prior to exiting the construction site.
- 4) When washing is required it shall be performed in an area that is stabilized/protected to prevent sediment from entering any public right of ways, streams or sensitive areas.

D. Concrete Washout Area Inspection and Maintenance Guidelines:

- 1) Inspection shall be made weekly and after each rainfall by the contractor.
- 2) When concrete accumulates 6 inches in depth, the concrete shall be broken up, removed and disposed of properly.
- 3) All controls around the perimeter of the washout area shall be checked, maintained and repaired as needed.
- 4) Upon completion of construction, the concrete washout area shall be cleaned and all concrete shall be removed and disposed of properly. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facility shall be backfilled and repaired.

F. Documentation and Recordkeeping:

All scheduled inspection and maintenance measures made to the temporary BMPs must be documented clearly on the Inspection Forms included for the respective BMP, showing inspection/maintenance measure performed, date and person responsible for inspection and maintenance. Any changes made to the location of 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(WPAP). No other changes shall be made unless approved by TCEQ and the Design Engineer. Documentation shall clearly show changes made, date, person responsible for the change, and the reason for the change. All documentation and recordkeeping shall be retained onsite with the WPAP.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT INSPECTION FORM

| Inspection Date: | | | |
|---|--|---|---|
| Signature: | | | |
| General Notes | | | |
| 3) Thickness – no 4) Width – not les 5) Washing – whe onto the public leaves the site/any storm drair 6) Maintenance – tracking of sedistones as necesediment spilled immediately. | ective, but not lead to less than 8 inclusions than 12 feet. In necessary, who roadway. When development. Allow, ditch or waterd the entrance shament onto the pussary, repair and d, dropped, was lentrance must be | ess than 50 feet. hes. neels shall be cleaned to washing is required, it so a unfiltered sediment shape ourse. all be maintained in a coublic roadways. This maddor cleanout of any mean thed or tracked onto the | o remove sediment prior to access shall be done so that no sediment all be prevented from entering ondition which will prevent by require periodic addition of asures used to trap sediment. All public roadway must be removed event runoff from leaving the |
| Is sediment present | Yes | No | Comment |
| on the roadway? | | | |
| Is the gravel clean and working properly (relatively free of mud/sediment)? | | | |
| Does all traffic use the stabilized entrance to leave the site? | | | |
| Maintenance Required | for Temporary C | Construction Entrance/E | xit: |
| To Be Performed by: | | On or Befo | re: |

SILT FENCE INSPECTION FORM

| Inspectio | n Date: | | | |
|---|---|--|--|---|
| Signature | e: | | | |
| General | Notes: | | | |
| 2) Ti 2) Ti 3) Ti fe 4) S w se 5) Si im 6) A | e anticipated runce acced not more the toe of the silt for the trench must be not fabric to be laid fence should be high in turn is attacted to the standard of the trence shall be not prede storm flow accumulated silt shaded. | off source. Posts mean 6 feet on center ence shall be trenched a minimum of 6 included in the ground and esecurely fastened enched to the steel fewhere ends of fabric removed when the steel or drainage. | ust be embedded a ned in with a spade ches deep and 6 inc d backfilled and con to each steel suppo nce post. There sha meet. ite is completely sta | led on a slight angle toward minimum of one foot deep and or mechanical trencher. ches wide to allow for the silt mpacted. Ort post and to woven wire, all be a 3 foot double overlap, abilized so as not to block or the of 6 inches. The silt shall be to not contribute additional silt. |
| | | Yes | No | Comment |
| Is the bottom of the fabric still buried/secured? | | | | |
| Is the fab | ric torn, r sagging? | | | |
| | ost tipped | | | |
| How deep is the sediment? | | | | |
| Maintena | nce Required for | Silt Fence: | | |
| To Be Pe | rformed by: | | On or Before: | |

ROCK BERMS INSPECTION FORM

| Inspection Date: | | | |
|---|---|--|---|
| Signature: | | | |
| General Notes: | | | |
| be 20 gauge wover 2) The berm shall have 3) Placement of the re 4) The wire sheathing the ends of the she walked upon. 5) The berm shall be 6) The ends of the be | n wire mesh with 1 in ye a top width of 24 in ock along the sheath shall be wrapped an eathing overlap at lea built along the contour rm shall be tied into | pendicular to the flow line ich openings. Inches with side slopes being shall not be less than cound the rock and secur ist 2 inches, and the berrur at zero percent grade the existing upslope gradinches deep to prevent faith | eing 2:1 (H:V) or flatter. 18 inches. red with tie wire so that m retains its shape when or as near as possible. de and the berm shall be |
| | Yes | No | Comment |
| Is the berm a minimum of 18 inches high? | | | |
| Does the berm have a top width of 24 inches? | | | |
| Is the level of sediment/silt greater than 6 inches? | | | |
| Does the rock berm need repair? | | | |
| Maintenance Required for | Rock Berms: | | |
| To Be Performed by: | | On or Before: | |

CONCRETE WASHOUT AREA

INSPECTION FORM

| Inspection Date: | | | |
|--|-----------------------|---------------|---------|
| Signature: | | | |
| General Notes: | | | |
| The concrete washout shall be located at least 50 feet from sensitive features, storm drains, open ditches or water bodies. The containment area shall be maintained such that there is no concrete or sediment escaping the containment area and shall be lined with 10 mil plastic. Concrete wash out wastes shall be allowed to set, be broken up, and then disposed of properly. | | | |
| | Yes | No | Comment |
| Is the concrete washout located near any sensitive features, storm drains, open ditches or water bodies? Is the containment | | | |
| area secured and working properly? | | | |
| Is there a plastic lining? | | | |
| Does the washout area need to be cleaned from too much old concrete? | | | |
| Maintenance Required fo | or Concrete Washout A | rea: | |
| To Be Performed by: | | On or Before: | |

17. Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

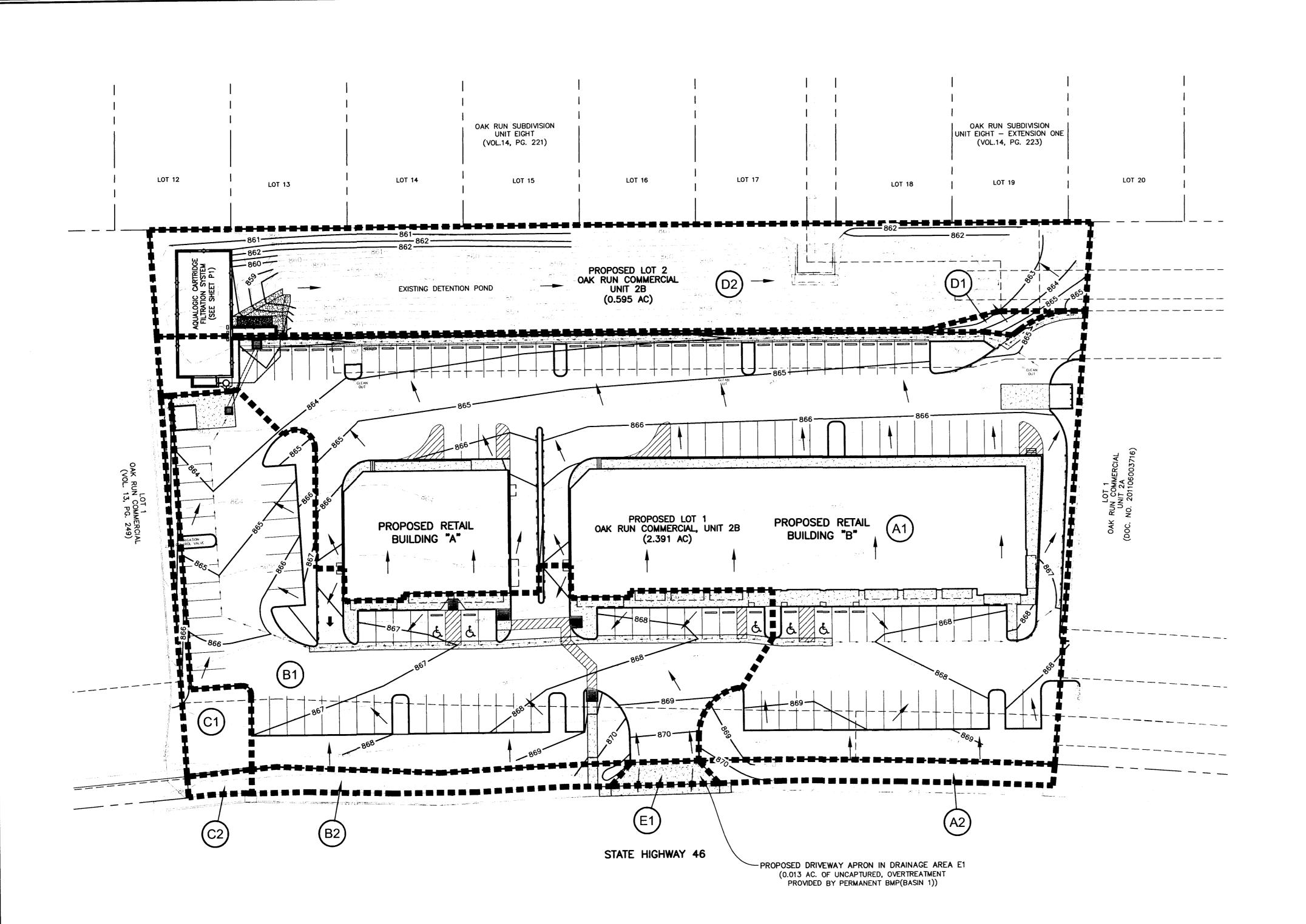
A. Temporary Stabilization

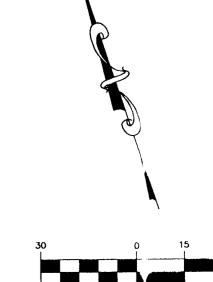
No bare ground exposed during construction will be left to stabilize naturally. Any disturbed area where construction activities have ceased, permanently or temporarily, the contractor shall initiate temporary stabilization of the area by the use of seeding and mulching within 14 days, except in areas where construction activities are scheduled to resume within 21 days. The temporary seeding will consist of Buffalograss, Green Sprangletop and Bermuda Grass with straw or cedar mulch applied on final layer in accordance with TxDOT Item 164 – Seeding for Erosion Control. Based on the growing season at the time of construction, mixture and application rates may be modified by the engineer.

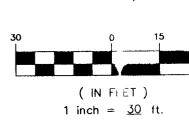
B. Permanent Stabilization

All disturbed portions of the site where construction activity permanently ceases shall be stabilized with permanent seed no later than 14 days after the last construction activity. The permanent seed mix shall consist of Bermuda Grass, Green Sprangletop and Buffalo Grass with straw or cedar mulch applied on the final layer in accordance with TxDOT Item 164 – Seeding for Erosion Control. Depending on the growing season at the time of construction, the mixture and application rates may be modified. It shall be the contractor's responsibility to sufficiently water the areas to be vegetated to achieve 70% stabilization.

ATTACHMENT G DRAINAGE AREA MAP







LEGIND

DRAINAGE AREA BOUNDARY

DRAINAGE AREA

DRAINAGE NODE POINT

FLOW DIRECTION

EXISTIN CONTOURS

—100 — PROPOSED CONTOURS

| PROPOSED DRAINAGE AREA DESIGNATION | DRAINAGE ARLAS(acres) |
|---------------------------------------|-----------------------|
| A1 | 1.604 |
| A2 | 0.046 |
| B1 | 0.717 |
| B2 | 0.051 |
| C1 | 0.052 |
| C2 | 0.008 |
| D1 | 0.018 |
| D2 | 0.595 |

| DRAINAGE AREA DESIGNATION | COMPOSITE RUNOFF COEFFICIENT OF SITE | |
|-----------------------------------|--------------------------------------|--|
| (A1+A2+B1+B2+C1+C2+D1+D2) (exist) | 0.38 | |
| (A1+A2+B1+B2+C1+C2+D1+D2) (dev) | 0.68 | |

CIVIL ENGINEERING &

CONSULTING SERVICES 130 W. JAHN STREET NEW BRAUNFELS, TX 78130 TEL: (830) 629-2563 FIRM No. F-9862



2B

DRAWN BY: D.G. III CHECKED BY: D.D.P. DATE: AUGUST 2015 **JOB NO.:** 1505.02

Permanent Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

Date: 2-28-15

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:

| Signature of Customer/Ag | gent |
|--------------------------|-----------------------------|
| Duf DR | al . |
| Regulated Entity Name: | Oak Run Commercial, Unit 2B |

Print Name of Customer/Agent; Daryl D. Pawelek (Agent)

Permanent Best Management Practices (BMPs)

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

| 1. | X Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction. |
|----|---|
| | □ N/A |
| 2. | X 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. |
| | X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site. |

| | A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: |
|----|--|
| | □ N/A |
| 3. | X Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion. |
| | □ N/A |
| 4. | Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes. |
| | The site will be used for low density single-family residential development and has 20% or less impervious cover. The site will be used for low density single-family residential development but has more than 20% impervious cover. The site will not be used for low density single-family residential development. |
| 5. | The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes. |
| | Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached. The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover. The site will not be used for multi-family residential developments, schools, or small business sites. |
| 6. | X Attachment B - BMPs for Upgradient Stormwater. |

| | X A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached. |
|-------|---|
| | No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached. Permanent BMPs or measures are not required to prevent pollution of surface |
| | water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached. |
| 7. X | Attachment C - BMPs for On-site Stormwater. |
| | A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached. Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached. |
| 8. X | Attachment D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed. |
| | N/A |
| 9. 🛚 | 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 feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed. |
| | Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached. |
| 10. X | Attachment F - Construction Plans. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include: |
| | X Design calculations (TSS removal calculations) X TCEQ construction notes X All geologic features (None Present) X All proposed structural BMP(s) plans and specifications |
| | N/A |
| _ | |

| 11. X Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs ar measures is attached. The plan includes all of the following: | nd |
|--|----|
| X Prepared and certified by the engineer designing the permanent BMPs and measures | |
| X Signed by the owner or responsible party X Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit | |
| X A discussion of record keeping procedures | |
| □ N/A | |
| 12. Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached. | |
| X N/A | |
| 13. X Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation. | |
| □ N/A | |
| Responsibility for Maintenance of Permanent BMP(s) | |
| Responsibility for maintenance of best management practices and measures after construction is complete. | |
| 14. X 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 of ownership is transferred. | |
| □ N/A | |
| 15. X 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. | t, |
| □ N/A | |
| | |

PERMANENT STORMWATER SECTION

Attachment A- 20% or Less Impervious Cover Waiver

Not Applicable.

6. Attachment B- BMP's for Upgradient Stormwater

The area upgradient of the site, drainage areas A2, B2, and C2, are the existing grassed side slopes within SH 46 right of way and a small section of sidewalk to the SH 46 sidewalk. These areas will be allowed to drain into and thru this site and ultimately into the Proposed BMP which is an Aqualogic Cartridge Filtration System.

7. Attachment C- BMP's for On-Site Stormwater

The proposed BMP for this site consist of a proposed Aqualogic Cartridge Filtration System. For this site consisting of the buildings/parking areas, the proposed Aqualogic Cartridge Filtration System basin will treat the first flush that will be captured in the sedimentation basin (Capture Volume) which allows the larger particles to settle out. The cartridge filtration system filters the fines and other contaminated stormwater pollutants that are present in the runoff and a manifold network of PVC piping allows the filtered water to be released from the basin. In the event that a hazardous spill would occur, a gate valve will be located outside of the cartridge filter basin to close off flow.

8. Attachment D- BMP's for Surface Streams

The proposed BMP for this site include a proposed Aqualogic Cartridge Filtration System basin. For this site consisting of the building/parking areas, the water quality pond system will capture and filter the first flush of stormwater runoff which appears to contain the most pollutants and prevent these pollutants from entering the surface streams, sensitive features (no sensitive features on this site), or the aquifer. Additionally, once the water quality volume is reached in the basin, the remaining storm water discharges into a detention pond which will also allow for additional solids/pollutants time to settle. This additional time for settlement will aid in the improvement of the overall water quality and further reduce the impact of the pollutants on surface streams, sensitive features (no sensitive features on this site), or the aquifer.

10. Attachment F- Construction Plans

Construction Plans for the proposed Aqualogic Cartridge Filtration System, Permanent BMP, are enclosed in this submittal. See Site Plan for the Aqualogic Cartridge Filtration System location.

11. Attachment G- Inspection, Maintenance, Repair and Retrofit Plan

The Maintenance Plan and Scheduled Inspection Plans are located at the end of this section.

12. Attachment H- Pilot-Scale Field Testing Plan

Not Applicable.

The proposed BMP for this site was designed according to the TCEQ Technical Guidance Manual.

13. Attachment I - Measures for Minimizing Surface Stream Contamination

As mentioned previously, the proposed BMP for this site is an Aqualogic Cartridge Filtration System. With this BMP, the first flush is captured in the pond (Capture Volume) which allows the larger particles to settle out. The cartridges filter the fines and other contaminated stormwater pollutants that are present in the runoff and a manifold network of PVC piping allows the filtered water to be released from the basin. In the event that a hazardous spill would occur, a gate valve will be located outside of the cartridge filter basin to close off flow. Additionally, once the water quality volume is reached in the sedimentation/filtration pond, the remaining storm water discharges into a detention pond which also allows for additional solids/pollutants time to settle. This additional time for settlement will aid in the improvement of the overall water quality and further reduce the impact of the pollutants on surface streams. sensitive features (no sensitive features on this site), or the aguifer. Located at the outfall of the basin overflow weir is a proposed velocity control measure which utilizes heavy rock riprap to dissipate the higher flow velocities that may be present prior to entry into the existing detention pond.

Attachment "G" Inspection, Maintenance, Repair and Retrofit Plan for Aqualogic Cartridge Filtration System

PROJECT NAME: Oak Run Commercial, Unit 2B

SITE LOCATION: Approx. 275 ft southeast of the intersection of Oak Run Pkwy and

SH 46 on SH 46

CITY, STATE: New Braunfels, Texas

AQUALOGIC CARTRIDGE FILTRATION SYSTEM

Proper Operation and Maintenance for the Aqualogic Cartridge Filtration System shall be in accordance with the attached Schedule A provided by Aqualogic.

Documentation and Recordkeeping:

All scheduled inspection and maintenance measures made to the permanent BMPs must be documented clearly on the Maintenance and Inspection Form included with this attachment for the respective BMP, showing inspection/maintenance/repair/and retrofit (if necessary) measures performed, date and person responsible for inspection and maintenance. Documentation of the maintenance shall clearly show the maintenance procedure(s) made, date and person responsible for the maintenance procedure. No changes to the permanent BMP's shall be made unless approved by TCEQ and the Design Engineer. All documentation and recordkeeping shall be retained onsite with the WPAP.

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

Responsible Party for Maintenance

Address City, State Zip

Telephone Number

Signature of Responsible Party

Print Name of Responsible Party

New Braunfels Investment Joint Venture.

PO Box 311240

New Braunfels, TX 78131-1240

(830)/625-8933 (1)

Reheard L. Hill

Date

I have reviewed the attached Maintenance Plan and Schedule for the Aqualogic Cartridge Filtration System and to the best of my knowledge certify that, if the Plan and Schedule are adhered to, the Aqualogic Cartridge Filtration will perform as designed.

SCHEDULE A

AQUALOGICTM STORMWATER FILTRATION SYSTEM OPERATION AND MAINTENANCE PLAN

| Maintenance Task Item ⁽¹⁾ | Description of Maintenance/Repairs to be Performed ⁽²⁾ | Typical Frequency |
|--|---|---|
| Basin and Inlet | Visually inspect and note items which need repair or maintenance performed (pipes, concrete drainage structures, retaining walls, cracks, voids or undermining, etc.). Check for erosion areas inside and outside the basin. (4) Insure the inlet and bypass are not clogged. | Each site visit |
| Trash Removal | Remove trash from the sedimentation and the filtration chambers. Properly dispose of all removed material ⁽⁵⁾ . | Each site visit |
| Sediment Removal | Remove sediment from the sedimentation and the filtration chambers. Properly dispose of all removed material by sweeping the basin, bagging the waste and removing the bagged waste by hand up the access ladders (5). | When sediment is greater than 2 inches in depth |
| Bladder Valve | Check for proper operation in "auto" and "manual" mode: repair or replace damage valve. | Each site visit |
| Canisters | Clean filter canisters as needed; repair or replace damaged canisters. | Each site visit |
| Cartridges | Remove and dispose of spent cartridges per manufacturer's recommendations. (5) | As need to insure proper drawdown within 72 hours |
| Geotextile Wrapping | Inspect geotextile wrapping and repair or replace as needed | At time of filter replacement |
| Controls | Visually inspect equipment and controls; verify proper function and repair or replace inoperative components. | Each site visit |
| Concrete Channel, Bypass Weir & Outfall | Visually inspect outfall and verify that discharge is leaving the filter by gravity. (4) | Each site visit |
| Site | Visually inspect site for detrimental debris or spillage that may result in damage to the AquaLogic system. | Each site visit |
| Facility Operations | Observe the complete facility to evaluate the operation. Review watershed status and determine if any modifications to the facility are warranted ⁽⁴⁾⁽⁶⁾ . | Each site visit |
| Wet Well/Sump Pump | If utilized, visually inspect wet well and sump pump to verify proper evacuation and discharge of stormwater. (4) | Each site visit |
| Underdrain Piping | Periodically clean underdrain piping using clean-out access ports to insure unimpeded discharge of filtered stormwater. | Two year Intervals |
| Security Fencing | Observe that the BMP site fence is closed with locked gates at all times, and fence is undamaged. (4) | Each site visit |
| Documentation ⁽⁷⁾ | Prepare site visit report noting all items of maintenance, repair, or replacement performed during each site visit. | Each site visit |

Notes:

Maintenance of installed AquaLogic[™] systems is carried out by AquaLogic[™] personnel.

- (2) All maintenance activities, including entering confined space, will be performed in accordance with applicable OSHA regulations.
- (3) Site visits are carried out once a month or after each significant rainfall event, whichever occurs more often.
- (4) Customer will be notified of repair or maintenance items, and facility concerns.
- (5) Properly dispose of trash, sediment and cartridges in accordance with applicable regulations.
- (6) At least two inspections per year shall be done during or immediately following wet weather.
- (7) Documentation to be maintained at AquaLogic offices for a minimum time of 5 years to be reviewed by the Customer or regulatory agency during normal business hours.

| AOU ALOGICTM AGREEMENT NO | 02144 | |
|---------------------------|-------|--|
|---------------------------|-------|--|

AQUALOGIC CARTRIDGE FILTRATION SYSTEM

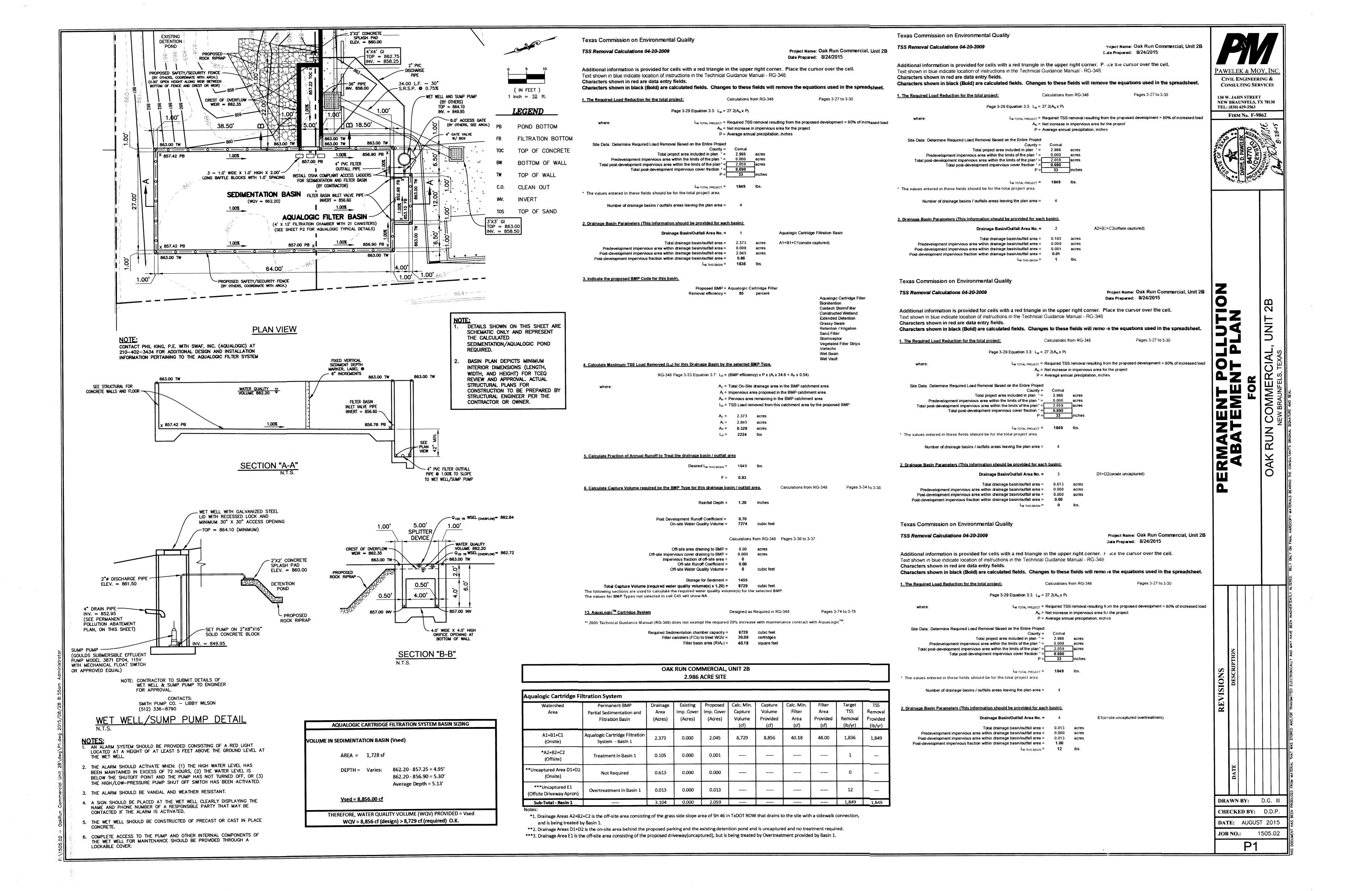
MAINTENANCE AND INSPECTION FORM

Note:

This information shall be filled out and signed by the responsible party performing the maintenance and inspection of the Permanent Best Management Practice. (Make additional copies of this form as needed)

| Inspection Date: |
|---|
| Signature of Responsible Party: |
| Print Name of Responsible Party: |
| Address of Responsible Party: |
| Phone Number of Responsible Party: |
| Maintenance Performed for Permanent Best Management Practice: |
| |
| |
| |
| |
| |
| Inspection Date: |
| Signature of Responsible Party: |
| Print Name of Responsible Party: |
| Address of Responsible Party: |
| Phone Number of Responsible Party: |
| Maintenance Performed for Permanent Best Management Practice: |
| |
| |
| |
| |
| |
| |

FOR PERMANENT BMP'S



ITEM -- PROVIDED AND INSTALLED BY

SEDIMENTATION BASIN ALL CONSTRUCTION -- BY SITE CONTRACTOR

WALLS -- SITE CONTRACTOR SUBFLOOR -- SITE CONTRACTOR TOP -- SITE CONTRACTOR ACCESS LADDER -- SITE CONTRACTOR ACCESS DOOR FOR COVERED CHAMBERS -- SITE CONTRACTOR

INFLOW PIPING PVC WALL PIPE -- SITE CONTRACTOR CONTROL VALVE -- AQUALOGIC TM PROTECTIVE GRATE * -- SITE CONTRACTOR GRAVEL PACK * -- SITE CONTRACTOR *AT UPSTREAM END OF INFLOW PIPE IN THE SEDIMENTATION CHAMBER

UNDERDRAIN SYSTEM PIPE MANIFOLDS -- AQUALOGIC™. MANIFOLD HEADER -- AQUALOGIC™ THREADED RECEIVERS -- AQUALOGICTM FINISHED FLOOR GROUT -- SITE CONTRACTOR DISCHARGE TO OUTFALL -- SITE CONTRACTOR

HOUSING AND CARTRIDGES —— AQUALOGIC™ GEOTEXTILE WRAP -- AQUALOGIC ™ FLOATING SEPARATOR RINGS --- AQUALOGIC™

RACK OR POLE SUPPORT —— BY AQUALOGIC™ CONTROL PANEL, WIRING AND ALL CONTROL SYSTEM COMPONENTS —— AQUALOGIC™

NOTE: NON-STANDARD INSTALLATIONS CAN BE ACCOMPLISHED BY SPECIFIC AGREEMENT WITH AQUALOGIC™

C, 1998, SWAF, INC. ALL RIGHTS RESERVED

MANIFOLD ROWS

AQUALOGIC DESIGN GUIDELINES

1.EACH FILTER CANISTER SHALL BE APPROXIMATELY EQUALLY SPACED WITHIN THE AVAILABLE FILTRATION AREA AND WILL BE CONNECTED TO A 4" SCH 40 PVC MANIFOLD. AQUALOGIC WILL DESIGN AND INSTALL THE FILTER MANIFOLD AND THE MANIFOLD HEADER WHICH WILL UTILIZE STANDARD PVC FITTINGS WITH SOLVENT WELD JOINTS AND WILL COLLECT THE FILTERED EFFLUENT TO A SINGLE DISCHARGE PIPE. THE MANIFOLD WILL INCLUDE A STANDARD FEMALE THREADED ADAPTER AT EACH POINT OF FILTER CANISTER CONNECTION. THE ADAPTER AT EACH POINT OF CONNECTION IS SET SO THAT THE VERTICAL MOUNTED CANISTER WILL BE STRAIGHT AND PLUMB.

2.ALL UNDERDRAIN PIPING SHALL BE EMBEDDED IN A LAYER OF WATERPROOF GROUT WITH A MINIMUM DEPTH OF 12" AT THE FILTER CANISTERS. THE FINISHED SURFACE OF THE GROUT LAYER SHALL BE FLUSH WITH THE BOTTOM OF THE FILTER CANISTERS AND BE SHAPED TO PREVENT PONDING WITH A MINIMUM SLOPE OF 0" PER FOOT. GROUTING SHALL BE INSTALLED BY THE SITE CONTRACTOR AFTER AQUALOGIC INSTALLS THE UNDERDRAIN PIPING.

3.THE AQUALOGIC TOCONTROL PANEL INCLUDING ALL COMPONENTS FOR AUTOMATIC OPERATION SHALL BE MOUNTED ON A SUITABLE RACK OR POLE EMBEDDED IN CONCRETE OR ATTACHED TO AN ACCESSIBLE LOCATION ON THE FILTRATION CHAMBER SIDEWALL.

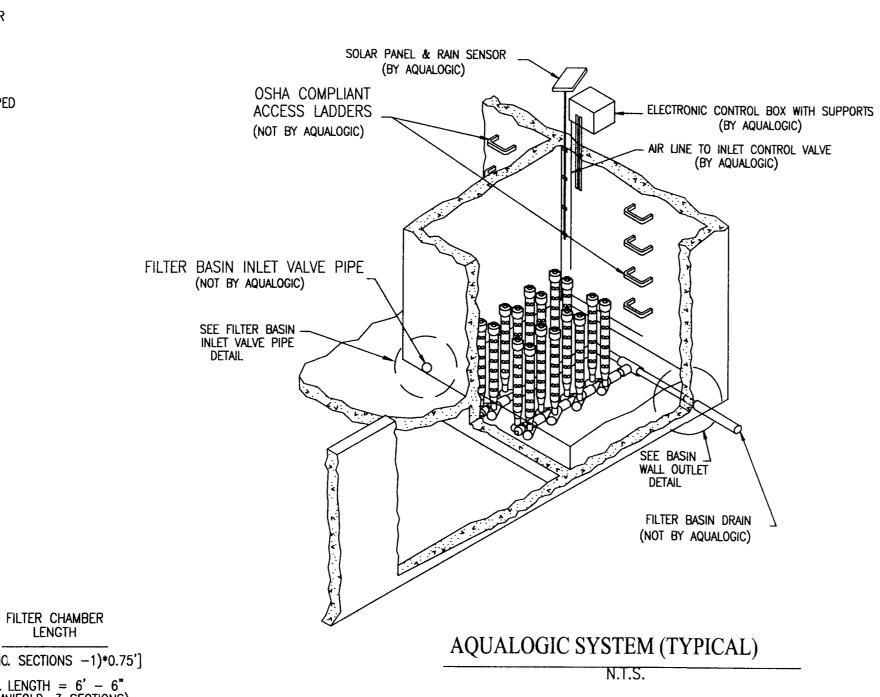
4.THE MEDIA USED FOR FILTRATION SHOULD HAVE A MEAN FILTRATION RATING (AVERAGE PORE SIZE) OF 10 MICRONS OR AS NEEDED TO ACHIEVE 90 % REMOVAL EFFICIENCY FOR TSS, AS RATED BY THE MEDIA MANUFACTURER. THE MEDIA CARTRIDGES SHALL BE OF THE TYPE DISTRIBUTED BY SWAF, INC. (www.aqualogic-usa.com) OF SAN ANTONIO, TEXAS, OR EQUIVALENT. THE MEDIA SHALL BE PLEATED POLYESTER WRAPPED AROUND A CENTRAL CORE AND HAVE SEMI-FLEXIBLE MOLDED END CAPS CONFIGURED TO MATCH THE CANISTER SEALING RINGS TO RESTRICT BYPASS AROUND THE CARTRIDGE ENDS; AND SHALL BE 2.75 INCH (OUTSIDE DIAMETER) BY 29.25 INCHES IN LENGTH.

CHART "A"

THE AQUALOGIC FILTER CHAMBER MANIFOLD SYSTEM ALLOWS VERSATILITY IN THE DESIGN DIMENSIONS OF THE FILTER CHAMBER. BELOW ARE THE MINIMUM INSIDE DIMENSIONS FOR THE FILTER CHAMBER TO PROPERLY ACCOMMODATE A MANIFOLD OF SELECTED SIZE ACCORDING TO THE NUMBER OF FILTER CANISTERS. SEVERAL SAMPLES ARE INCLUDED

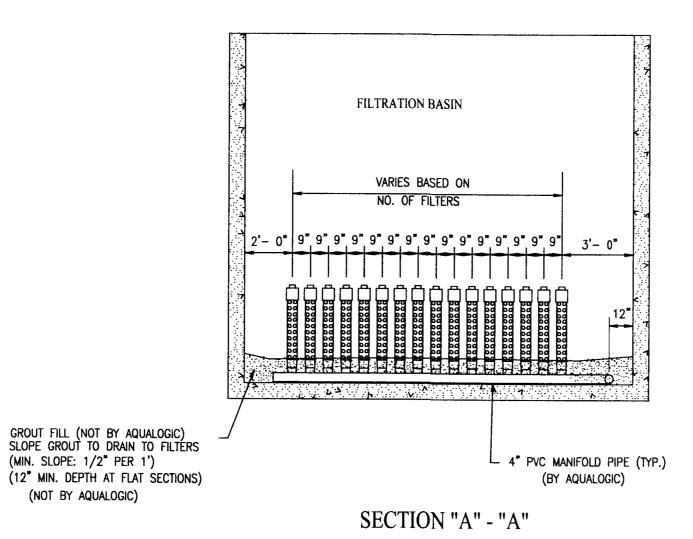
A MANIFOLD IS MADE UP OF SECTIONS CONSISITING OF 2 FILTER CANISTERS PER SECTION. ADD 9 IN. TO THE LENGTH OF THE FILTER CHAMBER PER EACH ADDITIONAL SECTION OF MANIFOLD.

| MANIFOLD F | ROWS | " A" | " B " | "C" | "D" | E" | "F" | TOTAL | LENGTH |
|------------|---|--------------------|---------------------|-------------------|------------------|--------|------|-------|---|
| 1 | | 3.0' | | | | | 1.5' | 4.5' | 5'+[(NO. SECTIONS -1)*0.75'] |
| 2 | | 3.0' | 2.0' | | | | 3.0' | 8.0' | MIN. LENGTH = $6' - 6"$ (1 MANIFOLD, 3 SECTIONS) |
| 3 | | 3.0' | 3.5' | 2.0' | | | 3.0' | 11.5' | (6 FILTERS) |
| 4 | | 3.0' | 2.0' | 3.5' | 2.0' | | 3.0' | 13.5 | AD) 9" PER SECTION |
| 5 | | 3.0' | 3.5' | 2.0' | 3.5' | 2.0' | 3.0' | 17.0' | MAX 25 SECTIONS PER MANIFOLD = 23' - 0" |
| | FILTER CHAMBE 1 MANIFOLD RO FILTER CHAMBE | OW WITI IR 4'- | + 5 SE(- 6" W | CTIONS. IDE BY | 8' - 0 | " LONG | | | |
| | FILTER CHAMBE 1 MANIFOLD RO FILTER CHAMBE | itiw wo | 1 18 SI | ECTIONS. | | • | | | |
| OR OR | 2 MANIFOLD ROFILTER CHAMBE | OW WITI IR 8' - | 1 9 SE(· 0" WII | CTIONS DE BY 1 | EACH. 1' - 0 | " LONG | | | |
| ON | 3 MANIFOLD ROFILTER CHAMBE | OW WITH IR 11' | 1 6 SEC - 6" W | CTIONS IDE BY | EACH. 8' – 9 | " LONG | | | |
| | FILTER CHAMBE 2 MANIFOLD RO FILTER CHAMBE | ITIW WC | 1 25 SI | ECTIONS | EÀCH. | |) | | |
| OR | 3 MANIFOLD RO 16 SECTIONS I FILTER CHAMBE | N 1 R |)W. | | | | | | |
| OR | 4 MANIFOLD RO 11 SECTIONS I FILTER CHAMBE | N 1 R |)W. | | | | | | |

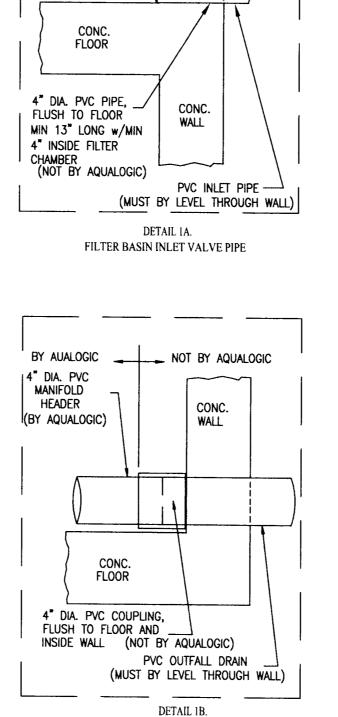


(MIN. SLOPE: 1/2" PER 1')

(NOT BY AQUALOGIC)

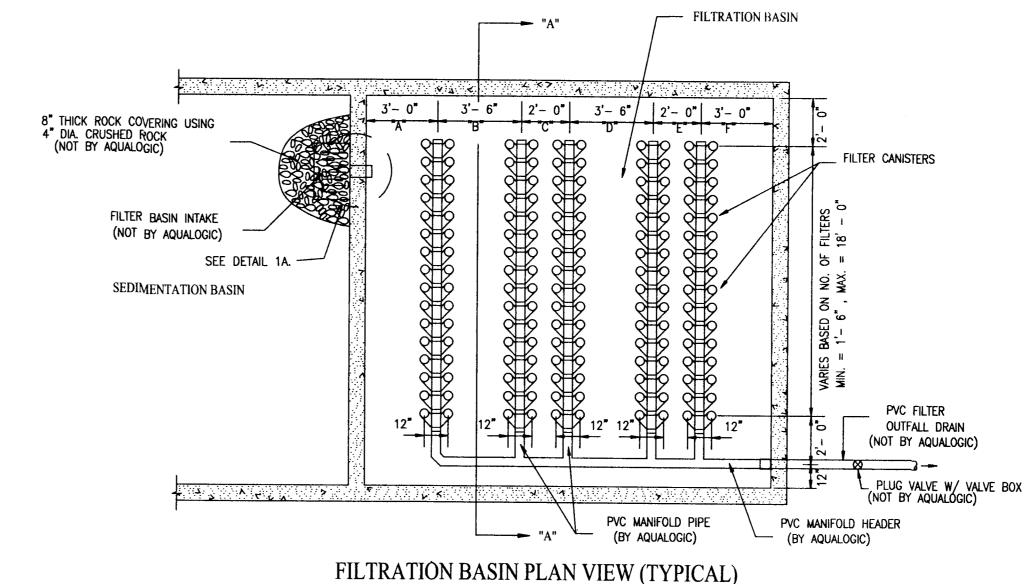


N.T.S.



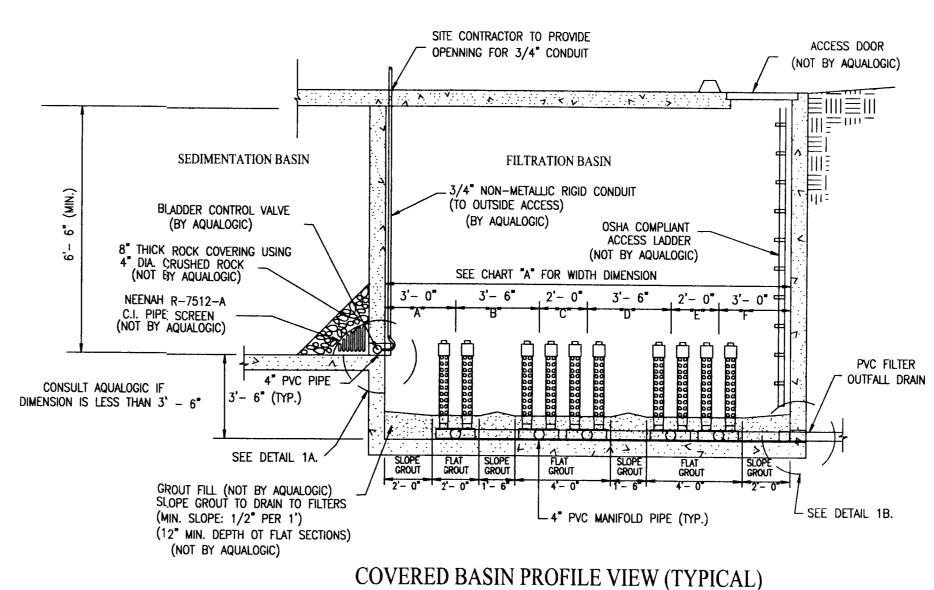
BASIN WALL OUTLET

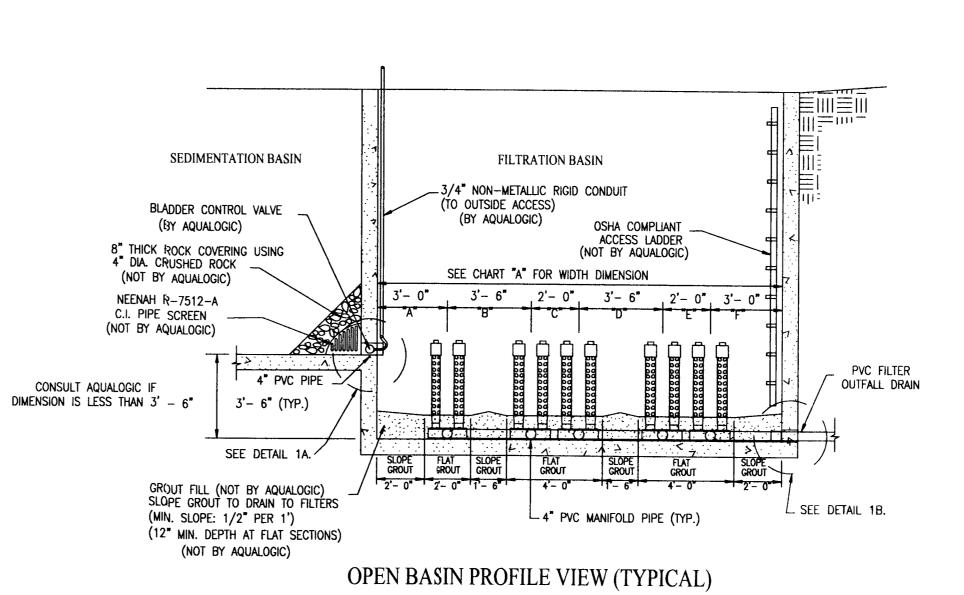
CONC.



N.T.S.

N.T.S.





N.T.S.

INFORMATION SHOWN ON THIS SHEET WAS PROVIDED TO P&M, INC. ON AUGUST 21, 2015 BY AQUALOGIC.

CIVIL ENGINEERING & CONSULTING SERVICES 130 W. JAHN STREET NEW BRAUNFELS, TX 78130 TEL: (830) 629-2563

FIRM No. F-9862

42 RA a m

DRAWN BY: D.G. III CHECKED BY: D.D.P. DATE: AUGUST 2015

JOB NO.: 1505.02

TSS REMOVAL CALCULATIONS PREPARED BY PAWELEK & MOY, INC. FOR OAK RUN COMMERCIAL, UNIT 2B



OAK RUN COM RCIAL, UNIT 2B 2.986 ACRE SITE

| Watershed Area | Permanent BMP Partial Sedimentation and Filtration Basin | Drainage Area (Acres) | Existing Imp. Cover (Acres) | Proposed Imp. Cover (Acres) | Calc. Min. Capture Volume (cf) | Capture Volume Provided (cf) | Calc. Min. Filter Area (sf) | Filter Area Provided (sf) | Target TSS Removal (lb/yr) | TSS Removal Provided (lb/yr) |
|---|--|-----------------------------|-----------------------------------|-----------------------------------|---|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| A1+B1+C1 (Onsite) | Aqualogic Cartridge Filtration System - Basin 1 | 2.373 | 0.000 | 2.045 | 8,729 | 8,856 | 40.18 | 48.00 | 1,836 | 1,849 |
| *A2+B2+C2 (Offsite) | Treatment in Basin 1 | 0.105 | 0.000 | 0.001 | | of security for | gr. 100 At An 100 | | 1 | Wai An 1994 |
| **Uncaptured Area D1+D2 (Onsite) | Not Required | 0.613 | 0.000 | 0.000 | | | | | 0 | un the sar |
| ***Uncaptured E1 (Offsite Driveway Apron) | Overtreatment in Basin 1 | 0.013 | 0.000 | 0.013 | | V 40 M 10 00 | фана | | 12 | |
| Sub-Total - Basin 1 | | 3.104 | 0.000 | 2.059 | | VID 100 500 500 500 | | | 1,849 | 1,849 |

Notes:

^{*1.} Drainage Areas A2+B2+C2 is the off-site area consisting of the grass side slope area of SH 46 in TxDOT ROW that drains to the site with a sidewalk connection, and is being treated by Basin 1.

^{**2.} Drainage Areas D1+D2 is the on-site area behind the proposed parking and the existing detention pond and is uncaptured and no treatment required.

^{***3.} Drainage Area E1 is the off-site area consisting of the proposed driveway(uncaptured), but is being treated by Overtreatment provided by Basin 1.

TSS Removal Calculations 04-20-2009

Project Name: Oak Run Commercial, Unit 2B

Date Prepared: 8/24/2015

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell,

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{M} = 27.2(A_{N} \times P)$

where:

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

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = Comal
Total project area included in plan * = 2.986 acres
Predevelopment impervious area within the limits of the plan * = 0.000 acres
Total post-development impervious cover fraction * = 0.690

Comal
2.986 acres
0.000 acres
0.690

P = 33 inches

L_{M TOTAL PROJECT} = 1849 lbs.

* The values entered in these fields should be for the total project area.

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

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

| Drainage Basin/Outfall Area No. = | 1 | | Aqualogic Cartridge Filtration Basin |
|---|---------------------------------|-------------------------|--------------------------------------|
| Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area = | 2.373 0.000 2.045 0.86 | acres acres acres | A1+B1+C1(onsite captured) |
| L _M THIS BASIN = | 1836 | lbs. | |

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Aqualogic Cartridge Filter Removal efficiency = percent

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

4. Calculate Maximum TSS Load Removed (LR) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_2 \times 0.54)$

where:

A_C = Total On-Site drainage area in the BMP catchment area

A_I = Impervious area proposed in the BMP catchment area

A_P = Pervious area remaining in the BMP catchment area

inches

L_R = TSS Load removed from this catchment area by the proposed BMP

 $A_{\rm C} =$ 2.373 acres

 $A_i =$ 2.045

acres

 $A_P =$ 0.328 acres

2224 lbs L_R =

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

Desired L_{M THIS BASIN} = 1849 lbs.

> F =0.83

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

1.20 Rainfall Depth =

0.70 Post Development Runoff Coefficient =

On-site Water Quality Volume = 7

7274

cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = 0.00 acres

Off-site Impervious cover draining to BMP = 0.000 acres

Impervious fraction of off-site area = 0

Off-site Runoff Coefficient = 0.00

Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 1455

Total Capture Volume (required water quality volume(s) x 1.20) = 8729 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.

The values for BMP Types not selected in cell C45 will show NA.

13. AquaLogicTM Cartridge System

Designed as Required in RG-348

Pages 3-74 to 3-78

Required Sedimentation chamber capacity = 8729 cubic feet Filter canisters (FCs) to treat WQV = 20.09 cartridges

Filter basin area (RIA_F) = 40.18 square feet

^{** 2005} Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic TM.

TSS Removal Calculations 04-20-2009

Project Name: Oak Run Commercial, Unit 2B

Date Prepared: 8/24/2015

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where:

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

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = Comal
Total project area included in plan * = 2.986 acres
Predevelopment impervious area within the limits of the plan * = 0.000 acres

Total post-development impervious area within the limits of the plan* = 2.059 acres

Total post-development impervious cover fraction * = 0.690

P = 33 inches

L_{M TOTAL PROJECT} = 1849 lbs.

Number of drainage basins / outfalls areas leaving the plan area = 4

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

| Drainage Basin/Outfall Area No. = | 2 | | A2+B2+C2(offsite captured) |
|---|-------|-------|----------------------------|
| Total drainage basin/outfall area = | 0.105 | acres | |
| Predevelopment impervious area within drainage basin/outfall area = | 0.000 | acres | |
| Post-development impervious area within drainage basin/outfall area = | 0.001 | acres | |

Post-development impervious area within drainage basin/outfall area = 0.001
Post-development impervious fraction within drainage basin/outfall area = 0.01

L_{M THIS BASIN} = 1 lbs.

^{*} The values entered in these fields should be for the total project area.

TSS Removal Calculations 04-20-2009

Project Name: Oak Run Commercial, Unit 2B

Date Prepared: 8/24/2015

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{M} = 27.2(A_{N} \times P)$

where:

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

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

Comal

Total project area included in plan * =

2.986 acres

Predevelopment impervious area within the limits of the plan " =

0.000 acres

Total post-development impervious area within the limits of the plan* =

acres

Total post-development impervious cover fraction * =

33 inches

2.059

0.690

1849 lbs. LM TOTAL PROJECT =

Number of drainage basins / outfalls areas leaving the plan area = 4

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

| Drainage Basin/Outfall Area No. = | 3 | | D1+D2(onsite uncaptured) |
|---|-------|-------|--------------------------|
| Total drainage basin/outfall area = | 0.613 | acres | |
| Predevelopment impervious area within drainage basin/outfall area = | 0.000 | acres | |
| Post-development impervious area within drainage basin/outfall area = | 0.000 | acres | |
| Post-development impervious fraction within drainage basin/outfall area = | 0.00 | | |
| LM THIS BASIN = | 0 | lbs. | |

^{*} The values entered in these fields should be for the total project area.

TSS Removal Calculations 04-20-2009

Project Name: Oak Run Commercial, Unit 2B

Date Prepared: 8/24/2015

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{M} = 27.2(A_{N} \times P)$

where:

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

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = Comal

Total project area included in plan * = 2.986 acres

Predevelopment impervious area within the limits of the plan * = 0.000 acres

Total post-development impervious area within the limits of the plan* = 2.059 acres

Total post-development impervious cover fraction * = 0.690

33 inches

 $L_{\text{M TOTAL PROJECT}} = 1849$ lbs.

Number of drainage basins / outfalls areas leaving the plan area = 4

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

Drainage Basin/Outfall Area No. = 4 E1(offsite uncaptured overtreatment)

acres

Total drainage basin/outfall area = 0.013 acres
Predevelopment impervious area within drainage basin/outfall area = 0.000 acres

Post-development impervious area within drainage basin/outfall area = 0.013
Post-development impervious fraction within drainage basin/outfall area = 1.00

L_{M THIS BASIN} = 12 lbs.

^{&#}x27; The values entered in these fields should be for the total project area.

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

| 1 | Rebecca L. Hill | |
|-------------------|---------------------------------------|------------------|
| | Print Name | , |
| | Vice President | |
| | Title - Owner/President/Other | , |
| of Oak Run Reactu | J. Ine, Managing Partner of New Braun | ifels Investment |
| | Corporation/Partnership/Entity Name | Joint Venture |
| have authorized | Daryl D. Pawelek | OBINIT TO |
| | Print Name of Agent/Engineer | |
| of | Pawelek & Moy, Inc. | |
| | Print Name of Firm | |

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

I also understand that:

- 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.
- 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.
- 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.
- 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.
- 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

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

GIVEN under my hand and seal of office on this day of August , 2015.

SHERRY HAAS

Typed or Printed Name of Texas MY COMMISSION EXPIRES JANUARY 18, 2019

MY COMMISSION EXPIRES

Agent Authorization Form

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

| T. | Kebecca L. Hill |
|-----------------|--|
| | Print Name |
| | Secretary |
| | Title - Owner/President/Other |
| of Dak Run | Commercial Unit 2 Property Owner's Assn., Inc. Corporation/Partnership/Entity Name |
| | Corporation/Partnership/Entity Name |
| have authorized | Daryl D. Pawelek |
| | Print Name of Agent/Engineer |
| of | Pawelek & Moy, Inc. |
| | Print Name of Firm |

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

I also understand that:

- 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.
- 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.
- 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.
- 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.

MY COMMISSION EXPIRES:

SIGNATURE PAGE:

Application Fee Form

| Texas Commission on Environmental Quality Name of Proposed Regulated Entity: Oak Run Comm Regulated Entity Location: Approx. 275 ft SE of the in Name of Customer: New Braunfels Investment Jt. Ve | ntersection of Oak Ru enture | n Pkwy & SH 46, NB TX |
|--|--|------------------------|
| Customer Reference Number (if issued):CN Regulated Entity Reference Number (if issued):RN | one: <u>(830)</u> 625-8933 — | |
| Austin Regional Office (3373) | | |
| Hays Travis San Antonio Regional Office (3362) | L W | lilliamson |
| □ Bexar □ Medina X Comal □ Kinney | U | valde |
| Application fees must be paid by check, certified check, Commission on Environmental Quality. Your canceled form must be submitted with your fee payment. This | check will serve as you | r receipt. This |
| Austin Regional Office Mailed to: TCEQ - Cashier Revenues Section Mail Code 214 P.O. Box 13088 Austin, TX 78711-3088 | San Antonio Regional C Overnight Delivery to: 1 12100 Park 35 Circle Building A, 3rd Floor Austin, TX 78753 (512)239-0357 | |
| Site Location (Check All That Apply): | | |
| X Recharge Zone Contributing Zon | e Transi | tion 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 | Acres | <u>_</u> |
| Plan: Multiple Single Family Residential and Parks | Acres | \$ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential | 2.986 Acres | \$ 4,000.00 |
| Sewage Collection System | L.F. | \$ |
| Lift Stations without sewer lines | Acres | 4 |
| Underground or Aboveground Storage Tank Facility | Tanks | \$ |
| Piping System(s)(only) | Each | \$ |
| Exception | Each | \$ |
| Extension of Time | Each | \$ |

Signature: Lass Signature:

Date: 8-28-15

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

| Project | Cost per Tank or 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 |

| NEW BRAUNFELS INVESTMENT JOINT VENT PO BOX 311240 NEW BRAUNFELS, TX 78131-1240 | URE 88-287/1149 1393 DATE Aug. 18, 2015 |
|--|--|
| PAY TO TCEO THOORDER OF JOHN LE TO TOO | \$4,000% _C |
| FIRST STATE BANK 401 MAIN PLAZA PO. BOX 311536 NEW BRAUNFELS, TX 78130 | D WW |
| MEMONPAP light - 2.39 acres Sentimentalia +1:1149028741: 500080701111 1 | Afflece m |



TCEQ Use Only

TCEQ Core Data Form

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

| | | eneral Info | | | | | | | | | | | | |
|----------------------|------------|----------------------|-----------------------|---|-------------------------------|------------------|-------------|---------|--------------------------------|---------------------------------|----------------|----------|--|--|
| | | ssion (If other is | | | | | | h tha | neogram amplicati | in a l | | | | |
| | | istration or Author | | | | | | | program аррисац | Off.) | | | | |
| | | Data Form should | | | - | | | ther | tad Entity Dafar | anaa Muumb | or (if inqued) | - | | |
| z. Custome | Keieren | ce Number (if is: | Sueuj | | v this link to I or RN nun | | 3. K | eguia | ited Entity Refer | ence Numb | er (II ISSuea) | | | |
| CN | | | | Central Registry** RN | | | | N | | | | | | |
| SECTIO | N II: C | ustomer In | formation | | | | | | | | | | | |
| 4. General (| Customer | Information | 5. Effective D | ate for Customer Information Updates (mm/dd/yyyy) | | | | | | | | | | |
| X New Cus ☐ Change i | | ame (Verifiable wi | | | Customer of State or | | | oller o | | - | Entity Owners | hip | | |
| The Custo | mer Na | me submitted | here may be | upda | ated auto | omatica | ally b | asea | on what is co | urrent and | d active with | h the | | |
| Texas Sec | cretary o | of State (SOS) | or Texas Co. | mptro | ller of P | ublic A | ccou | ints | (CPA). | | | | | |
| 6. Customer | Legal Na | ame (If an individua | al, print last name i | first: eg: | Doe, John) | | <u>If n</u> | ем Си | istomer, enter prev | rious Custon | ner below: | | | |
| New Brau | nfels Inv | estment Jt. Ve | enture | | | | | | | | | | | |
| 7. TX SOS/0 | PA Filing | Number | 8. TX State Ta | ax ID (11 | l digits) | | 9. 1 | | al Tax ID (9 digits) 365076 | 10. DUNS Number (if applicable) | | | | |
| 11. Type of | Custome | : Corporat | tion | ☐ Individual | | | | Pa | rtnership: Gene | | | | | |
| | | County Federal [| ☐ State ☐ Other | | Sole P | roprietor | ship | X | Other: Joint Ve | enture | | | | |
| 12. Number | of Emplo | yees | | | | | 13. | Indep | endently Owner | | ated? | | | |
| X 0-20 | 21-100 | 101-250 | 251-500 | 50 | 11 and high | ner | X | Yes | □ No | | | | | |
| 14. Custome | er Role (P | roposed or Actual) | – as it relates to th | e Regul | ated Entity | listed on ti | his form | n. Plea | se check one of the | e following: | | | | |
| X Owner ☐ Occupation | nal Licen | Opera | ator onsible Party | | Owner 8 Voluntar | Operatory Cleanu | | licant | Other: | | | | | |
| | P.O. Bo | x 311240 | | | | | | | | | | | | |
| 15. Mailing | | | | | | | | | | | | | | |
| Address: | City | New Braunfels | S | Stat | e TX | Z | IP | 7813 | 31 | ZIP + 4 | 1240 | | | |
| 16. Country | Mailing Ir | nformation (if outs | side USA) | | | 17. E-N | lail Ad | Idres | S (if applicable) | | | | | |
| | | | | | | | | | | | | | | |
| 18. Telephor | ne Numbe | er | 1 | 9. Exte | nsion or (| Code | | | 20. Fax Number | er (if applica | ble) | | | |
| (830)62 | 5 - 8933 | | _ 0[][| | - | | | | (830)609- | 0480 | | | | |
| FCTION | J TIT. I | Regulated E | ntity Infor | meti | op. | | | | | | | | | |
| | | Entity Informati | | | | placted h | alow t | hic for | m chould be seed | maniad h | a normit appli | (cotion) | | |
| X New Regi | - | | to Regulated En | | - | | | | Entity Information | | а ренни арри | Lauvii) | | |
| | | tity Name sub | | | | | | | | | dards (remo | val | | |
| | | endings such | | | | | | | - 4. Igonoj b | Own | 25 (101110 | | | |
| | | lame (Enter name | | | | is taking p | olace.) | | | | | | | |
| Oak Ru | ın Comm | ercial , Unit 2B (| (Lot 1) | | | | | | | | | | | |

| 23. Street Address of | | | | | | | | | | | | | | |
|---|-----------------|--------|----------------|--------------------------|-------------------|---------------|------------------|------------|------------------|----------------|------------------------------|--------------|-----------------|--|
| the Regulated Entity: (No PO Boxes) | City | | | | State | | | ZIP | T | | | ZIP + 4 | | |
| 24. County | | | | | | | | | | | | | | |
| | | Ent | ter Physical L | ocatio | n Descriptio | n if no | street | address i | is pro | vided. | | | | |
| 25. Description to Physical Location: | | App | proximately 27 | '5 feet | southeast | of the ir | ntersed | ction of C | ak R | un Parkw | ay and | d SH 46 | | |
| 26. Nearest City | | | | | | | | | Sta | te | | Nea | rest ZIP Code | |
| | New Brau | nfels | | | | | | | | Texas | | | 78132 | |
| 27. Latitude (N) In D | ecimal: | | 29.7200 | | | | 28. Lo | ngitude (| W) | In Decima | imal: 98.1644 | | | |
| Degrees | Minute | s | | Secon | ds | | Degrees | | | Minutes | | | Seconds | |
| 29 | 43 12 | | | | | 98 | 3 | | 0 | 9 | | 52 | | |
| 29. Primary SIC Code | (4 digits) | 30. | Secondary SIG | C Cod | e (4 digits) | 31. P | | NAICS C | ode | | Secon or 6 digits | ndary NAI | CS Code | |
| 1542 | | | | | | | 23 | 6220 | | | | | | |
| 33. What is the Primar | | | | Do not i | repeat the SIC or | NAICS O | descriptio | п.) | | | | | | |
| Commercial Deve | elopment - | Reta | il Center | | | | | | | | | | | |
| 34. Mailing | P.O. | Box | 311240 | | | | | | | | | | | |
| Address: | Ci | ty | New Braunf | els | State | TX | | ZIP | ZIP 78131 | | ZIP + 4 | | 1240 | |
| 35. E-Mail Addre | ss: | | | | | | | | | | | | | |
| 36. Tele | phone Nun | nber | | | 37. Extension | on or C | ode | | | 38. Fax No | umber | (if applica | ible) | |
| (830 |)625-893 | 13 | | | - | | | | | (8 | 30)60 | 9-0480 | | |
| 39. TCEQ Programs an | | | | | write in the per | mits/reg | istration | numbers t | that wi | Il be affected | d by the | e updates su | bmitted on this | |
| ☐ Dam Safety | ☐ Dist | tricts | | | | | | Emissions | Invent | tory Air | ☐ Industrial Hazardous Waste | | | |
| | | | | V | VPAP | | | | | | | | | |
| Municipal Solid Waste | □ Nev | w Soul | rce Review Air | | SSF | ☐ Petroleum S | | | | ge Tank | WS | | | |
| Sludge | Sto | rm Wa | iter | ☐ Title V Air | | | | Tires | | | Used Oil | | | |
| ☐ Voluntary Cleanup | □Was | ste Wa | ater | ☐ Wastewater Agriculture | | | e ☐ Water Rights | | | | Other: | | | |
| | | | | | | | | | | | | | | |
| SECTION IV: P | repare | r In | formation | 1 | | | | | | | | | | |
| 40. Name: Daryl D | . Pawelek | | | | | | 41. T | itle: | Civil | Engineer | | | | |
| 42. Telephone Number | 43 | . Ext. | /Code | 44. Fa | x Number | | 45. | E-Mail Ac | dres | s | | | | |
| (830) 629-2563 | | - | | (830 |) 629 -2564 | 1 | | daryl.pa | welel | @sbcglo | bal.ne | t | | |
| SECTION V: A | uthoriz | ed S | Signature | | | | | | | | | | | |
| 46. By my signature beliginature authority to subdentified in field 39. | | | | | | | | | | | | | | |
| Company: Pa | welek & N | loy, I | nc. | - | | Job 1 | Title: | Proje | ect Er | ngineer | | | | |
| | aryl D. Pav | | | | | | | | P | hone: | (83 | 0)629-25 | 63 | |
| Signature: | nature: Day DRA | | | | | | | | | | | 3.29-1 | | |



TCEQ Use Only

TCEQ Core Data Form

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

| SECTIO | VI: Ge | neral Infor | mation | | | | | | | | | | | |
|----------------------------|---------------------|------------------------|-----------------------|--|--------------------|-------------------|-------------|------------------------------|---------------------------|-------------|--------------------------|--|--|--|
| | | sion (If other is | | | | | | | | | | | | |
| X New Pe | rmit, Regi | stration or Author | ization (Core Dat | ta Form st | hould b | e submi | tted wi | th the p | program application | on.) | | | | |
| Renewa | al (Core I | Data Form should | be submitted wit | th the rene | ewal for | rm) | - | Other | | | | | | |
| 2. Customer | Reference | ce Number (if iss | sued) | Follow th | | | 3. F | Regula | ted Entity Refer | ence Numb | er (if issued) | | | |
| CN | | | | for CN or Centra | RN nur al Regis | | R | N | | | | | | |
| SECTIO | N II: C | ustomer In | <u>formation</u> | | | | | | | | | | | |
| 4. General C | ustomer | Information | 5. Effective Da | late for Customer Information Updates (mm/dd/yyyy) | | | | | | | | | | |
| X New Cus ☐ Change in | | me (Verifiable wi | | date to Cu retary of S | | | | roller o | Change in Public Accounts | - | Entity Ownership | | | |
| The Custo | mer Na | me submitted | here may be | update | d aute | omatic | ally L | asea | on what is cu | ırrent and | active with the | | | |
| Texas Sec | retary o | of State (SOS) | or Texas Coi | mptrolle | r of P | Public I | Acco | unts (| (CPA). | | | | | |
| 6. Customer | Legal Na | me (If an individua | l, print last name fi | irst: eg: Do | e, John) |) | <u>If 1</u> | пем Си | stomer, enter prev | ious Custom | er below: | | | |
| Oak Run (| Commerc | cial Unit 2 Prop | perty Owners | Associa | tion, I | nc. | | | | | | | | |
| 7. TX SOS/C | PA Filing | Number | 8. TX State Ta | X ID (11 dig | its) | | 9. | Federa | al Tax ID (9 digits) | 10. DUN | S Number (if applicable) | | | |
| 11. Type of | Customer | : X Corporati | on | ☐ Individual | | | | Partnership: General Limited | | | | | | |
| Government | ☐ City ☐ | County Federal [| State Other | | Sole F | roprieto | rship | | Other: | | | | | |
| 12. Number × 0-20 | of Employ 21-100 | yees 101-250 | 251-500 | ☐ 501 a | and high | her | | . Indep | pendently Owned | d and Opera | ited? | | | |
| 14. Custome | r Role (Pr | oposed or Actual) | as it relates to the | e Regulated | d Entity | listed on | this for | m. Plea | se check one of the | following: | | | | |
| X Owner ☐ Occupation | nal Licens | Opera | tor ensible Party | | | & Operatory Clean | | plicant | Other: | | | | | |
| | P.O. Bo | x 311240 | | | | | | | | | | | | |
| 15. Mailing | | | | | + | | - | | | | | | | |
| Address: | City | New Braunfels | | State | TX | | ZIP | 7813 | 31 | ZIP + 4 | 1240 | | | |
| 16. Country | | formation (if outs | | | | 1 | 1 | ddress | ress (if applicable) | | | | | |
| io. ocuma y | manning in | TOTTIGETOTI II OULS! | 00 00/1/ | | | | 7 | | (II applicable) | | | | | |
| 18. Telephor (830) 62 | | r | 19 | e. Extens | ion or | Code | | | 20. Fax Number | | ble) | | | |
| SECTION | J III. T | lagulated F | ntity Inform | mation | , | | | | | | | | | |
| | | Regulated E | | | | plected | helow | this for | m should be acco | mnanied hu | a permit application) | | | |
| X New Regi | - | | to Regulated Ent | | - | | | | Entity Information | | и регин аррисацоп) | | | |
| The Regula | ated Ent | | mitted may b | e updat | | | | | | | dards (removal | | | |
| | | ame (Enter name | | | d action | is taking | place.) | | | | | | | |
| | | ercial , Unit 2B (| | | | | | | | | | | | |

| 23. Street Address of | | | | | | | | | | | | | |
|--|---|----------------------|--|----------------------------|------------------------|----------------------|-----------------------|------------------|---------------------------|-----------------------|----------------------|------------------------------|--|
| the Regulated Entity: (No PO Boxes) | City | 1 | | | State | | ZIP | | | | ZIP + 4 | | |
| 24. County | | | | | | | | | | | | | |
| | | Ent | ter Physical L | ocatio | n Descriptio | n if no s | street addr | ess is p | rovided | 1. | | | |
| 25. Description to Physical Location: | | App | proximately 27 | 75 fee | t southeast | of the in | tersection | of Oak | Run P | arkway a | and SH 46 | | |
| 26. Nearest City | | | | | | | | S | tate | - | Ne | arest ZIP Cod | |
| | New Bra | unfels | | | | | | | Te | xas | | 78132 | |
| 27. Latitude (N) In | Decimal: | | 29.7203 | | | 1 | 28. Longitu | ide (W) | In De | ecimal: | 98.1644 | | |
| Degrees | Minu | tes | | Secor | nds | 1 | Degrees | | M | inutes | Seconds | | |
| 29 | | 43 | | | 13 | | 98 | | | 09 | | 52 | |
| 29. Primary SIC Cod | e (4 digits) | 30. | Secondary SI | C Cod | e (4 digits) | 31. Pr (5 or 6 d | imary NAIO digits) | CS Code | 9 | 32. Sec (5 or 6 di | condary NA igits) | ICS Code | |
| 1542 | | | | | | | 23622 | 0 | | | | | |
| 33. What is the Prim | | | | (Do not i | repeat the SIC of | NAICS de | escription.) | | | | | | |
| Commercial Dev | velopment | - Reta | ail Center | | | | | | | | | | |
| 34. Mailing | P.C |). Box | 311240 | | | | | | | | | | |
| Address: | (| City | New Braunf | els | State | TX | ZI | ZIP 78131 | | | ZIP + 4 | 1240 | |
| 35. E-Mail Add | ress: | | | | | | | | | | | | |
| 36. Tel | lephone Nu | umber | | | 37. Extensi | on or Co | ode | | 38. F | | er (if applic | able) | |
| (83 | 30)625-89 | 933 | | | - | | | | | (830) | 609-0480 | | |
| 9. TCEQ Programs a | | | | | write in the per | rmits/regi | stration num | bers that | will be a | ffected by | the updates s | ubmitted on this | |
| rm. See the Core Data I Dam Safety | | istricts | r additional guida | | Edwards Aquife | ar . | Fmis | sions Inv | entory A | ir | Industrial Ha | azardous Waste | |
| Daili Salety | | 13(110(3 | | - | NPAP | ,, | | 310110 1111 | ontoly 7 | | | | |
| ☐ Municipal Solid Was | ste 🗆 N | ew Sou | rce Review Air | | DSSF | | Petroleum Storage Tar | | | nk PWS | | | |
| | | | | | | | | | | | | | |
| Sludge | □s | torm Wa | ater | ☐ Title V Air | | | Tires | ☐ Used C | | | Oil | | |
| | | | | | | | | | | | | | |
| ☐ Voluntary Cleanup | □ W | aste W | ater | ter Wastewater Agriculture | | | ☐ Wate | r Rights | | | Other: | | |
| | | | | | | | | | | | | | |
| ECTION III | Dropor | er In | formation | 1 | | | | | | | | | |
| ECHONIV: | riepar | | | _ | | | | - | | | | | |
| | D. Pawele | k | | | | | 41. Title: | Ci | vil Engi | neer | | | |
| 10. Name: Daryl | D. Pawele | | ./Code | 44. Fa | x Number | | 41. Title: | | | neer | | | |
| 0. Name: Daryl 12. Telephone Numb | D. Pawele | | ./Code | | x Number) 629 -256 | 4 | 45. E-Ma | il Addr | ess | neer ocglobal. | net | | |
| 10. Name: Daryl 12. Telephone Numb 1830) 629 -2563 | D. Pawele | 43. Ext | | (830 | | 4 | 45. E-Ma | il Addr | ess | | net | | |
| 10. Name: Daryl 12. Telephone Numb (830) 629 -2563 (ECTION V: 6. By my signature begnature authority to s | D. Pawele | ized | Signature the best of my | (830 |) 629 -256 | informa | 45. E-Ma | nil Addreyl.pawe | ess lek@st | ocglobal. | l complete, a | nd that I have | |
| 10. Name: Daryl 12. Telephone Numb 18. 830) 629 -2563 18. ECTION V: 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. | D. Pawele Author elow, I cert ubmit this f | ized | Signature the best of my behalf of the | (830 |) 629 -256 | informa ection II | 45. E-Ma | nil Addreyl.pawe | ess lek@st s form i | s true and | l complete, a | nd that I have ID numbers | |
| 42. Telephone Numb (830) 629 -2563 ECTION V: 6. By my signature begnature authority to selentified in field 39. Company: | D. Pawele | ized ify, to form on | Signature the best of my behalf of the c | (830 |) 629 -256 | informa | 45. E-Ma | ail Addroyl.pawe | ess lek@st s form i | is true and for the u | l complete, a | ID numbers | |