TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 14, 2003

Mr. Armando Martinez
Tasos, A Texas General Partnership
1202 Hallmark, Suite 204
San Antonio, TX 78216

Re: Edwards Aquifer, Comal County
NAME OF PROJECT: TSS Commercial; Located on the southeast corner of Oak Run Parkway and State Highway 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
Edwards Aquifer Protection Program File No. 1949.00
Regulated Entity Number: RN103000790

Dear Mr. Martinez:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the referenced project submitted to the San Antonio Regional Office by Arnulfo (Arnie) Gonzalez, P.E. of e-Sol Engineered Solutions, PLLC on behalf of Tasos, A Texas General Partnership on January 29, 2003. Final review of the WPAP submittal was completed after additional material was received on April 1, 2003, April 8, 2003, and April 9, 2003. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer protection plan. A motion for reconsideration must be filed no later than 20 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 1.4 acres. It will include the construction of 10 lease spaces with a total area of 15,440 square feet, sidewalks, parking, and driveways. The impervious cover will be 1.10 acres (79 percent). Project wastewater will be disposed of by conveyance to the existing Gruene Road Wastewater Treatment Plant owned by the New Braunfels Utilities.

PERMANENT POLLUTION ABATEMENT MEASURES

A retention irrigation basin designed using the TNRCC technical guidance document, *Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices* (June 1999) will be constructed to treat storm water runoff. The basin is designed to provide treatment for 1.4 acres of the site with a

minimum capture volume of 2,927.2 cubic feet. A minimum irrigation area of 7,805.9 square feet will be provided. The approved measures have been presented to meet the required 80 percent removal of the increased load in total suspended solids caused by the project.

GEOLOGY

According to the geologic assessment included with the application, one man-made feature, assessed as possibly sensitive was identified on the site. The San Antonio Regional Office did not conduct a site inspection.

SPECIAL CONDITIONS

I. All permanent pollution abatement measures shall be operational prior to occupancy of any of the facilities.

II. All sediment and or media removed from the sedimentation/filtration basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335 as applicable.

STANDARD CONDITIONS

1. Pursuant to §26.136 of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

Prior to Commencement of Construction:

2. 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.

3. 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.

4. 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.

5. 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 file 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.

6. 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.

7. 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:

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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:

14. 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.

15. 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 the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

16. 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.

17. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

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

If you have any questions or require additional information, please contact Lynn M. Bumguardner of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4023.

Sincerely,

Bobby D. Caldwell

for Margaret Hoffman
Executive Director
Texas Commission on Environmental Quality

MH/LMB/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625
Change in Responsibility for Maintenance on Permanent BMPs-Form TCEQ-10263

cc: Mr. Arnulfo (Arnie) Gonzalez, P.E., e-Sol, Engineered Solutions, PLLC
Mr. Michael Short, P.E., City of New Braunfels
Mr. Tom Hornseth, Comal County
Mr. John Bohuslav, TXDOT San Antonio District
Mr. Greg Ellis, Edwards Aquifer Authority
TCEQ Central Records MC 212

e-sol *Engineered Solutions*

TASOS

1.4- ACRE HWY. 46 TSS COMMERCIAL PROJECT

NEW BRAUNFELS, TEXAS

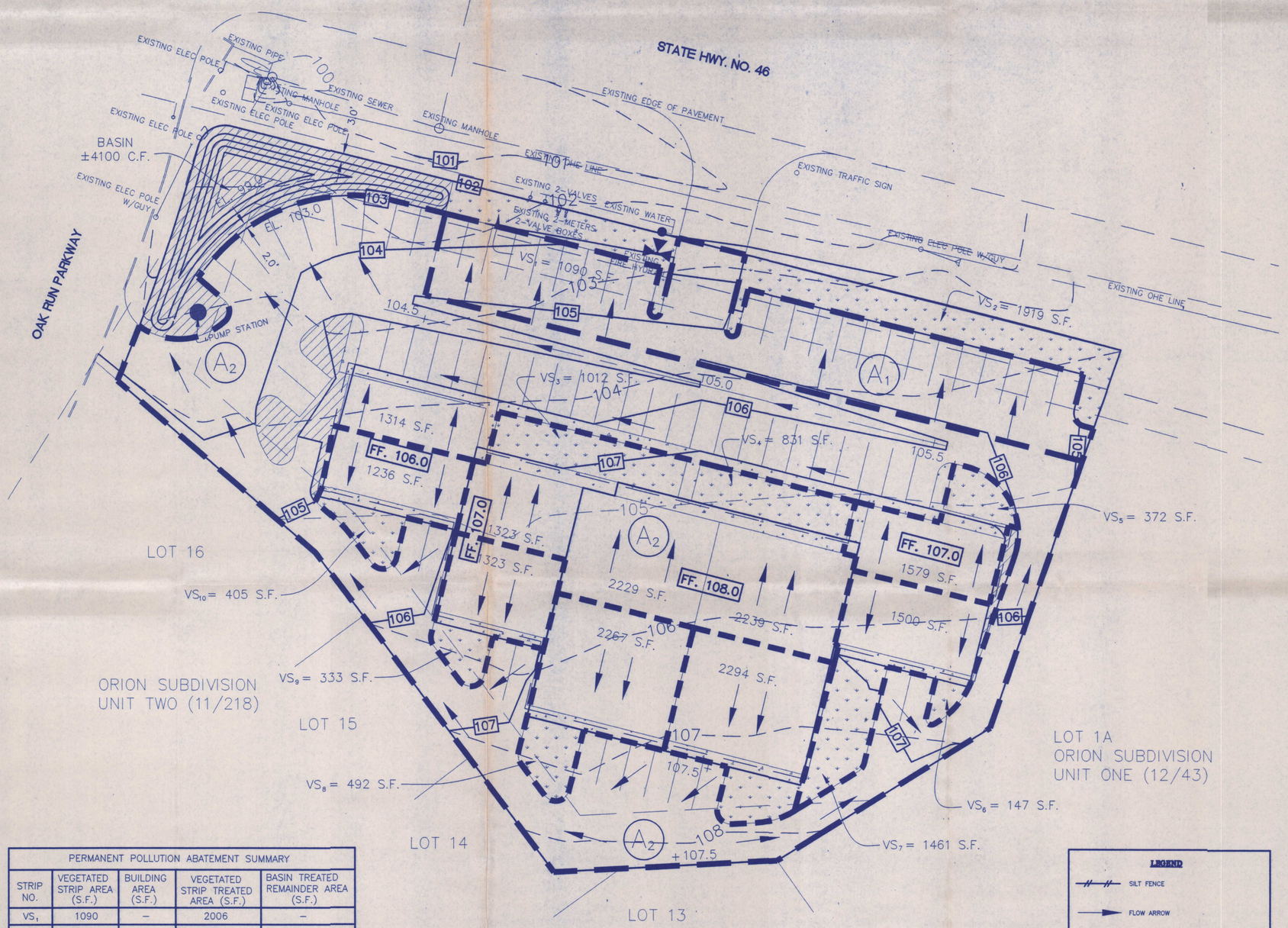
WATER POLLUTION ABATEMENT PLAN

REQUEST FOR APPROVAL
30 TAC 213
EDWARDS AQUIFER PROTECTION PROGRAM

TNRCC SAN ANTONIO OFFICE

OCTOBER 2002

P.O. Box 690964
San Antonio, Texas 78269
210 372 9111
210 372 9121 (fax)



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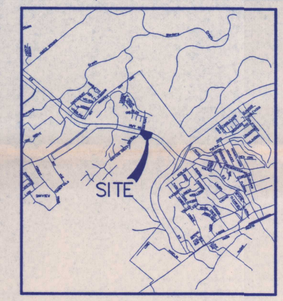


LOCATION MAP
N.T.S.

PERMANENT POLLUTION ABATEMENT SUMMARY				
STRIP NO.	VEGETATED STRIP AREA (S.F.)	BUILDING AREA (S.F.)	VEGETATED STRIP TREATED AREA (S.F.)	BASIN TREATED REMAINDER AREA (S.F.)
VS_1	1090	–	2006	–
VS_2	1919	–	3531	–
VS_3	1012	2896	1862	1034
VS_4	831	2896	1529	1367
VS_5	372	1579	685	894
VS_6	147	750	271	479
VS_7	1461	3044	2688	356
VS_8	492	2267	905	1362
VS_9	333	1323	613	710
VS_{10}	450	1236	828	408
			TOTAL	6610

PERVIOUS COVER = 0.090 AC

VEGATATIVE STRIP = 0.19 AC

CONCRETE DRIVES= 0.68 AC

SIDEWALK = 0.08 AC

A_1 = 0.13 AC (5,500 S.F.)

A_2 = 0.81 AC (35,284 S.F.)

LEGEND

- SILT FENCE
- FLOW ARROW
- ROCK BERM w/SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA
- CONCRETE TRUCK WASHOUT PIT
- WATERSHEDS
- 105 PROPOSED CONTOURS

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

1. Written construction notification must be given to the appropriate TNRCC 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.

2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan and the TNRCC 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.

3. If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TNRCC 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 TNRCC has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.

4. 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.

5. 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 manufacturer's 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.

6. 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).

7. 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.

8. 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).

9. 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.

10. 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.

11. The following records shall be maintained and made available to the TNRCC 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.

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 following:

A. 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;

B. 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 Regional Office
1921 Cedar Bend, Suite 150
Austin, Texas 78758-5336
Phone (512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
140 Heimer Road, Suite 360
San Antonio, Texas 78232-5042
Phone (210) 490-3096
Fax (210) 545-4329

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

EXHIBIT "G"

REVISIONS:

civil design
public works
land development
construction services
water resources
mapping
environmental

ENGINEERED SOLUTIONS

P.O. Box 690864
San Antonio, TX.
722-east (3765)
695-6503 (Fax)

HWY. 46 TSS COMMERICAL
1.39 AC BUSINESS CENTER
NEW BRAUNFELS, TEXAS

PERMANENT POLLUTION ABATEMENT PLAN

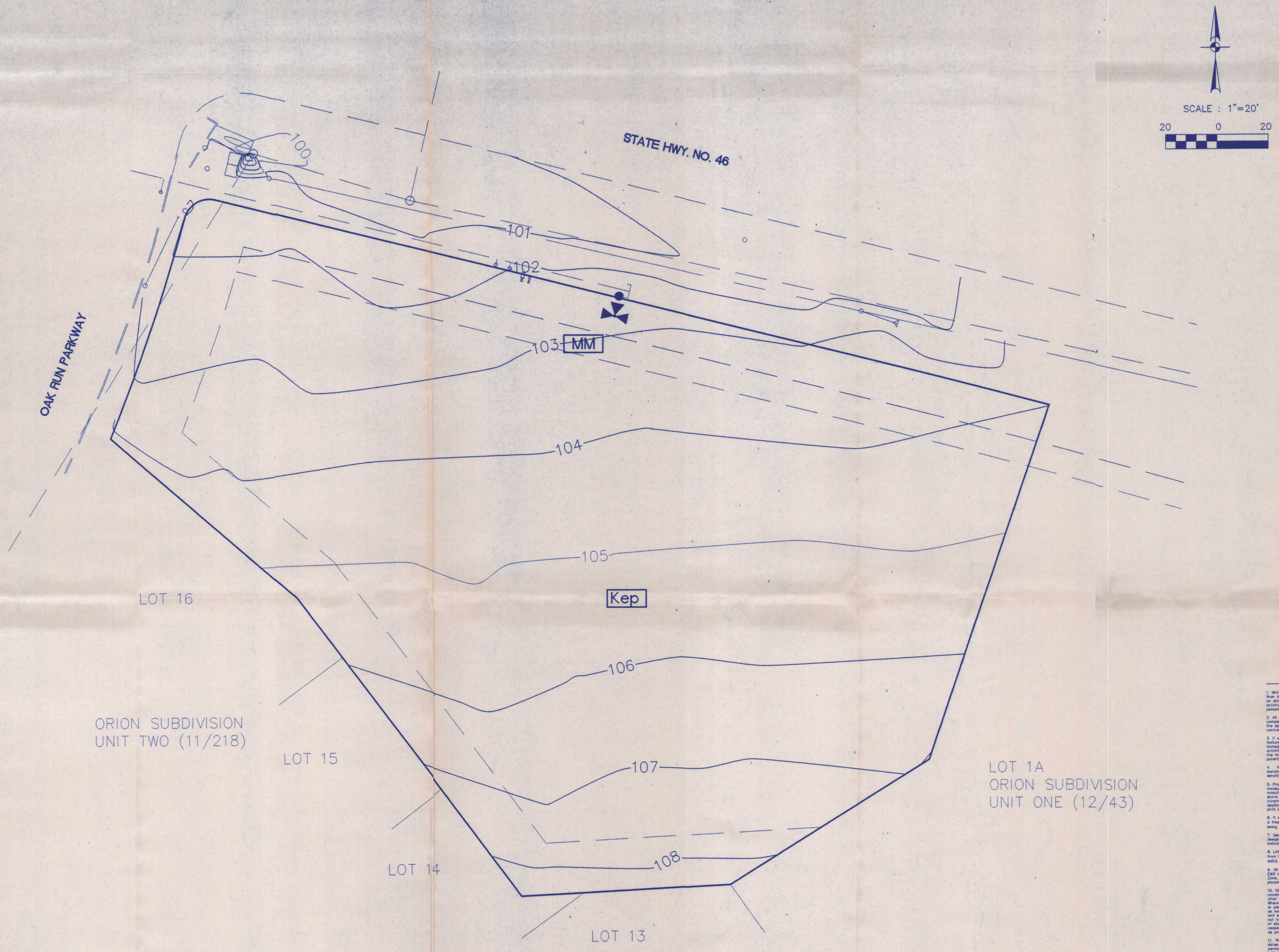
STATE OF TEXAS
ARNULFO GONZALEZ
81956
LICENSED
PROFESSIONAL ENGINEER

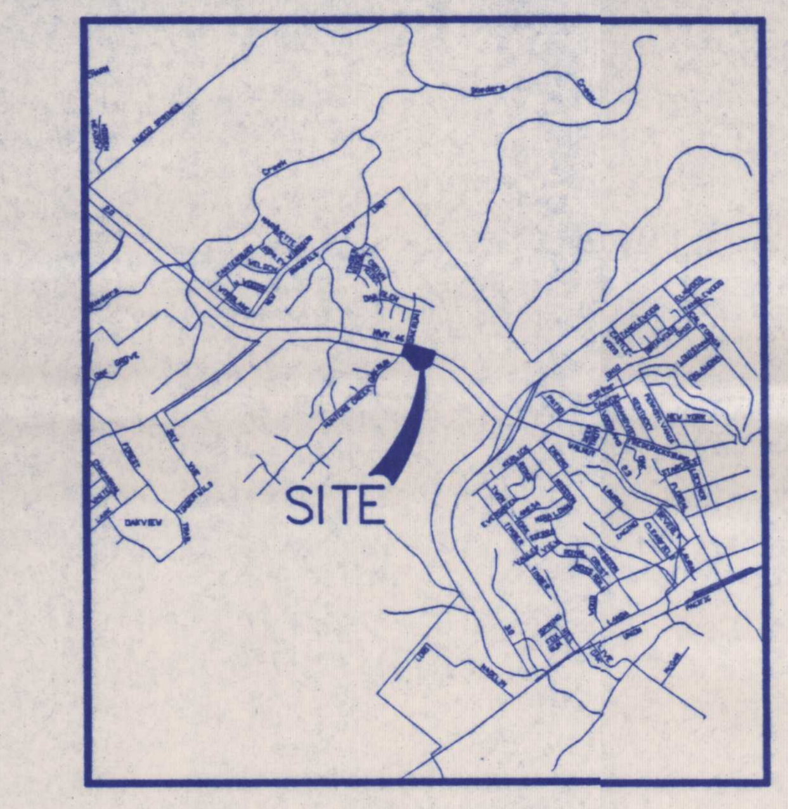
JOB NO. _____

DATE: OCT 2002

CHECKED AG DRAWN GM

SHEET 1 OF 1





LOCATION MAP
N.T.S.

LEGEND

Qal	ALLUVIUM
Kbu	BUDA LIMESTONE
Kdr	DEL RIO CLAY
Kgt	GEORGETOWN FORMATION
Kep	PERSON FORMATION
Kek	KAINER FORMATION
Kgru	GLEN ROSE FORMATION (UPPER)
S-1	POTENTIAL RECHARGE FEATURE
	DRAINAGE PATHWAY
	CONTACT, LOCATED APPROXIMATELY
U D	FAULT, LOCATED APPROXIMATELY (D, downthrown side; U, upthrown side)
? ?	FAULT, EXISTENCE UNCERTAIN
	POSSIBLE FAULT (as located by aerial photographs)
	STRIKE AND DIP OF BEDDING
	STRIKE AND DIP OF JOINTS
	STRIKE OF VERTICAL JOINTS
C	CAVE
	CLOSED DEPRESSION
	SINKHOLE
	SOLUTION CAVITY
	VUGGY ROCK
	ZONE
MM	MAN-MADE FEATURE
W	WATER WELL
SS	SANITARY SEWER LINE

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

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B. 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;

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

REVISIONS:

civil design
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land development
drainage analysis
water resources
mapping
environmental

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695-6803 (Fax)

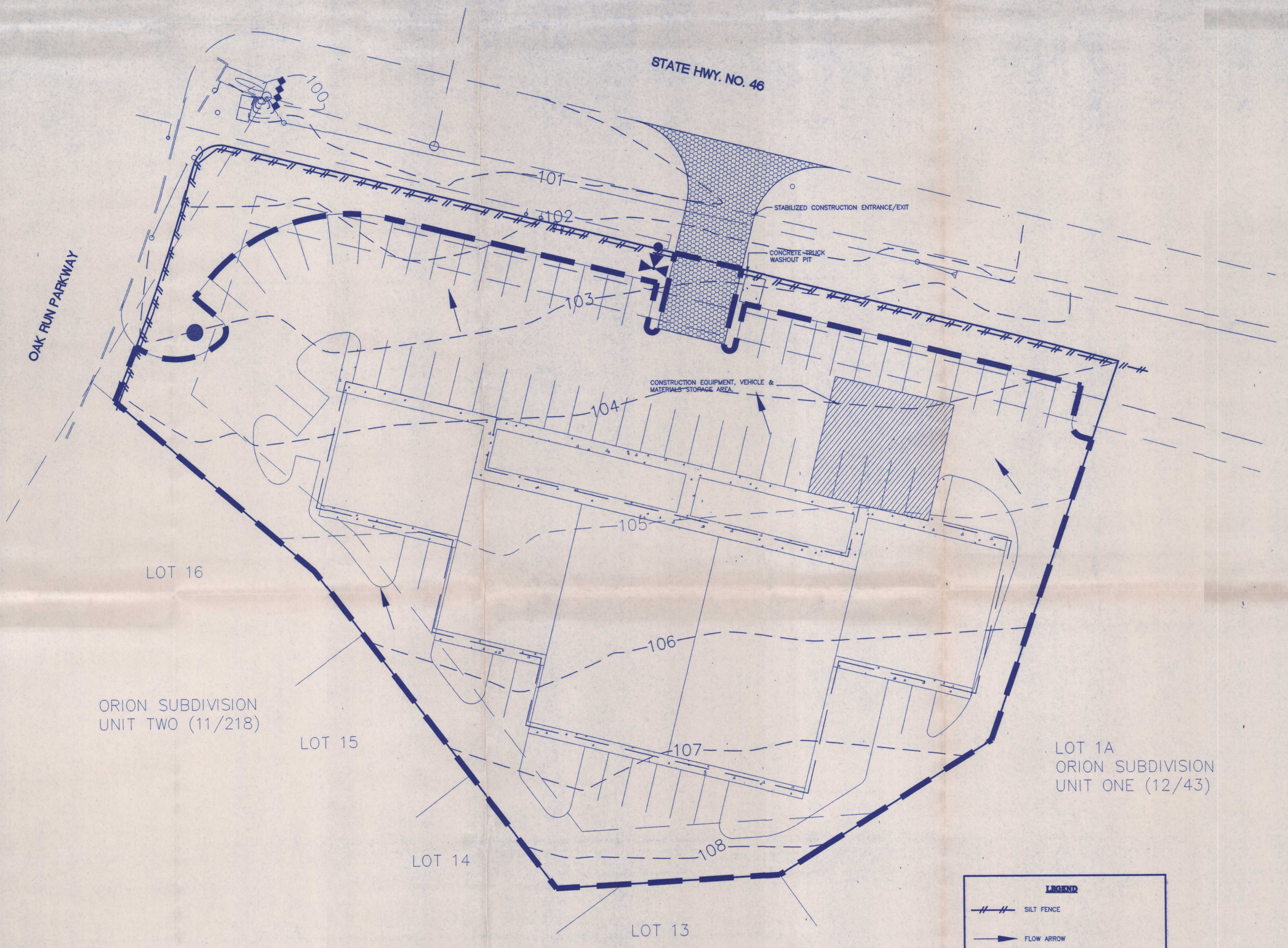
ENGINEERED SOLUTIONS

HWY. 46 TSS COMMERICAL
1.39 AC BUSINESS CENTER
NEW BRAUNFELS, TEXAS

SITE GEOLOGIC MAP

STATE OF TEXAS
ARNULFO GONZALEZ
81256
LICENSED PROFESSIONAL ENGINEER

JOB NO.:
DATE: OCT 2002
CHECKED AG DRAWN GM
SHEET 1 OF 1



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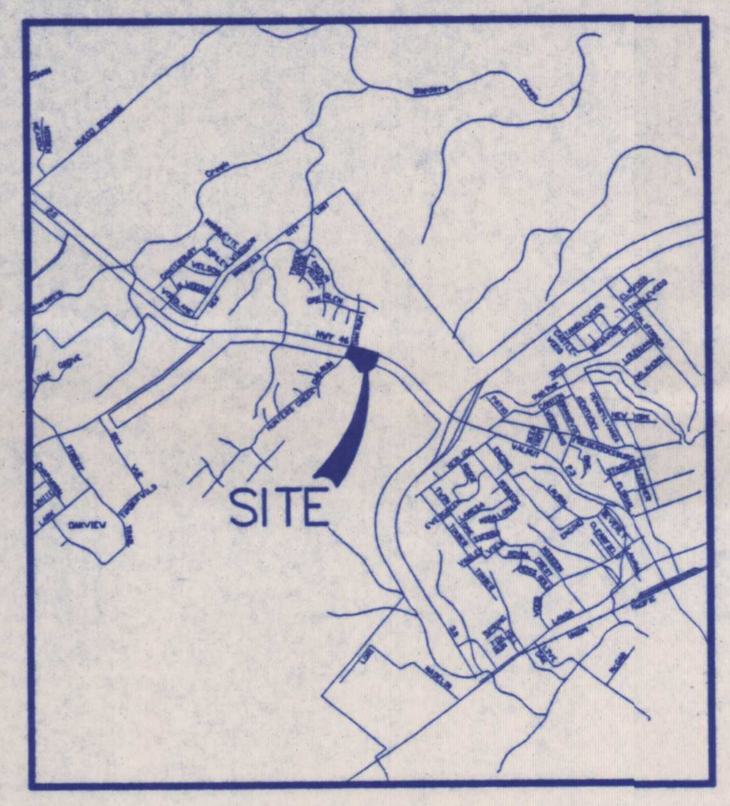

LOCATION MAP

N.T.S.

LEGEND

- SILT FENCE
- FLOW ARROW
- ROCK BERM w/SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA.
- CONCRETE TRUCK WASHOUT PIT
- WATERSHEDS & CONSTRUCTION LIMITS

GENERAL NOTES

1. Do not disturb vegetated areas (trees, grass, weeds, brush, etc.) any more than necessary for construction.
2. Construction entrance/exit location and concrete washout pit and construction equipment and material storage yard to be determined in the field.
3. Storm Water Pollution Prevention Controls may need to be modified in the field to accomplish the desired effect. All modifications are to be noted on this Exhibit and signed and dated by the responsible party.
4. Restrict entry/exit to the project site to designated locations by use of adequate fencing, if necessary.
5. All Storm Water Pollution Prevention Controls are to be maintained and in working conditions at all times.
6. For a complete listing of Temporary Storm Water Pollution Prevention Controls refer to the NPDES Storm Water Pollution Prevention Plan.
7. Storm water pollution prevention structures should be constructed within the site boundaries. Some of these features may be shown outside the site boundaries on this plan for visual clarity.
8. As soon as practical, all disturbed soil that will not be covered by impervious cover such as parkway areas, easement areas, embankment slopes, etc. will be stabilized per applicable project specifications.
9. Civil construction on this project does not include major excavations, embankments, or grading which will significantly alter the existing slopes.
10. Shaded area ▬ ▬ ▬ denotes limits of disturbed areas. Other areas within the project boundary, with the exception of a construction equipment and material storage yard, are not a part of this NPDES Storm Water Pollution Prevention Plan and will not be disturbed by construction activities.

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

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10. 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.

11. The following records shall be maintained and made available to the TNRCC 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.

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 following:

A. 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;

B. 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 Regional Office
1921 Cedar Bend, Suite 150
Austin, Texas 78758-5336
Phone (512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
140 Heimer, Suite 360
San Antonio, Texas 78232-5042
Phone (210) 490-3096
Fax (210) 545-4329

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

REVISIONS:

civil design
public works
land development
drainage analysis
water resources
mapping
environmental

ENGINEERED SOLUTIONS

P.O. Box 690984
San Antonio, TX. 78
722-esol (3765)
695-6803 (Fax)

HWY. 46 TSS COMMERICAL 1.39 AC BUSINESS CENTER

NEW BRAUNFELS, TEXAS

TEMPORARY POLLUTION ABATEMENT PLAN

STATE OF TEXAS
ARNULFO GONZALEZ
81958

JOB NO. _____

DATE: OCT 2002

CHECKED AG DRAWN GM

SHEET 1 OF 1

e-Sol Engineered Solutions

P.O. Box 690964
San Antonio, Texas 78269
210 372 9111
210 372 9121 (fax)

October 9, 2002

Mr. Richard Garcia
Texas Natural Resource Conservation Commission
Region 13
14250 Judson Road
San Antonio, Texas 78233-4480

Re:
Water Pollution Abatement Plan

Dear Mr. Garcia:

Please find the enclosed original and three (3) copies of a Water Pollution Abatement Plan prepared in accordance with the Texas Natural Resource Conservation Commission (30 TAC 213) and current policies for development over the Edwards Aquifer Recharge Zone.

The referenced Water Pollution Abatement Plan is for an approximately 2.88 -acre site identified as **HWY. 46 TSS COMMERCIAL PROJECT**. Please review the plan information and, if acceptable, provide a written approval so that construction may begin at the earliest time.

The review fee in the amount of $ 3,000 is included. If questions should arise regarding this information, please call.

Respectfully,

Arnulfo (Arnie) Gonzalez, P.E.
e-Sol, Engineered Solutions, PLLC

Water Pollution Abatement Plan Checklist

___ General Information Form, *TNRCC-0587*
- ATTACHMENT A - Road Map
- ATTACHMENT B - USGS / Edwards Recharge Zone Map
- ATTACHMENT C - Project Description

___ Geologic Assessment Form, *TNRCC-0585*
- ATTACHMENT A - Geologic Assessment Table, *TNRCC-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 GPS was used to map features

___ Water Pollution Abatement Plan Application Form, *TNRCC-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, *TNRCC-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, *TNRCC-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 using guidance other than the Edwards Aquifer Protection Program Guidance Manual to design Permanent BMPs
- ATTACHMENT I -Measures for Minimizing Surface Stream Contamination

___ Agent Authorization Form, if submitted by agent, *TNRCC-0599*

___ Fee Application Form, *TNRCC-0574*

___ Check Payable to the Texas Natural Resource Conservation Commission

___ Core Data Form, *TNRCC-10400*

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

REGULATED ENTITY NAME: ***HWY. 46 TSS COMMERCIAL PROJECT***

COUNTY: ***COMAL*** STREAM BASIN: ***BLEIDERS CREEK***

EDWARDS AQUIFER: ☒ RECHARGE ZONE
__ TRANSITION ZONE

PLAN TYPE: ☒ WPAP __ AST __ EXCEPTION
__ SCS __ UST __ MODIFICATION

CUSTOMER INFORMATION

1. Agent/Representative (If any):

Contact Person: ***ARNULFO (ARNIE) GONZALEZ, P.E.***
Entity: ***E-SOL, ENVIRONMENTAL ENGINEERING SOLUTIONS***
Mailing Address: ***P.O. Box 690964***
City, State: ***San Antonio , Texas*** Zip: ***78255***
Telephone: ***210 372 9111*** FAX: ***210 372 9121***

2. ☒ This project is inside the city limits of ***NEW BRAUNFELS***.
__ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
__ This project is not located within any city's limits or ETJ.

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

THE PROPOSED PROJECT IS LOCATED ON THE SOUTHEAST CORNER OF OAK RUN PARKWAY AND HWY. 46 WEST OF LOOP 337 AND I.H. HWY. 35.

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

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

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

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

7. ☐ **ATTACHMENT C - PROJECT DESCRIPTION**. Attached at the end of this form is a detailed narrative description of the proposed project.

8. Existing project site conditions are noted below:
   - ___ Existing commercial site
   - ___ Existing industrial site
   - ___ Existing residential site
   - ___ Existing paved and/or unpaved roads
   - ☐ Undeveloped (Cleared)
   - ___ Undeveloped (Undisturbed/Uncleared)
   - ___ Other:

PROHIBITED ACTIVITIES

9. ☐ I am aware that the following activities are prohibited on the **Recharge Zone** and are not proposed for this project:

   (1) waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
   (2) new feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
   (3) land disposal of Class I wastes, as defined in 30 TAC §335.1;
   (4) the use of sewage holding tanks as parts of organized collection systems; and
   (5) new municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

10. ☐ I am aware that the following activities are prohibited on the **Transition Zone** and are not proposed for this project:

    (1) waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
    (2) land disposal of Class I wastes, as defined in 30 TAC §335.1; and
    (3) new municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

ADMINISTRATIVE INFORMATION

11. The fee for the plan(s) is based on:

    ☐ For a Water Pollution Abatement Plan and Modifications, the total acreage of the site where

regulated activities will occur.

___ For an Organized Sewage Collection System Plans and Modifications, the total linear footage of all collection system lines.

___ For a UST Facility Plan or an AST Facility Plan, the total number of tanks or piping systems.

___ A Contributing Zone Plan.

___ A request for an exception to any substantive portion of the regulations related to the protection of water quality.

___ A request for an extension to a previously approved plan.

12. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TNRCC 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:

___ TNRCC 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)

13. ☒ Submit one (1) original and three (3) copies of the completed application to the appropriate regional office for distribution by the TNRCC to the local municipality or county, groundwater conservation districts, and the TNRCC's Central Office.

14. ☒ 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.

___ No person shall commence any regulated activity until the Contributing Zone Plan for the activity has been filed with the executive director.

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

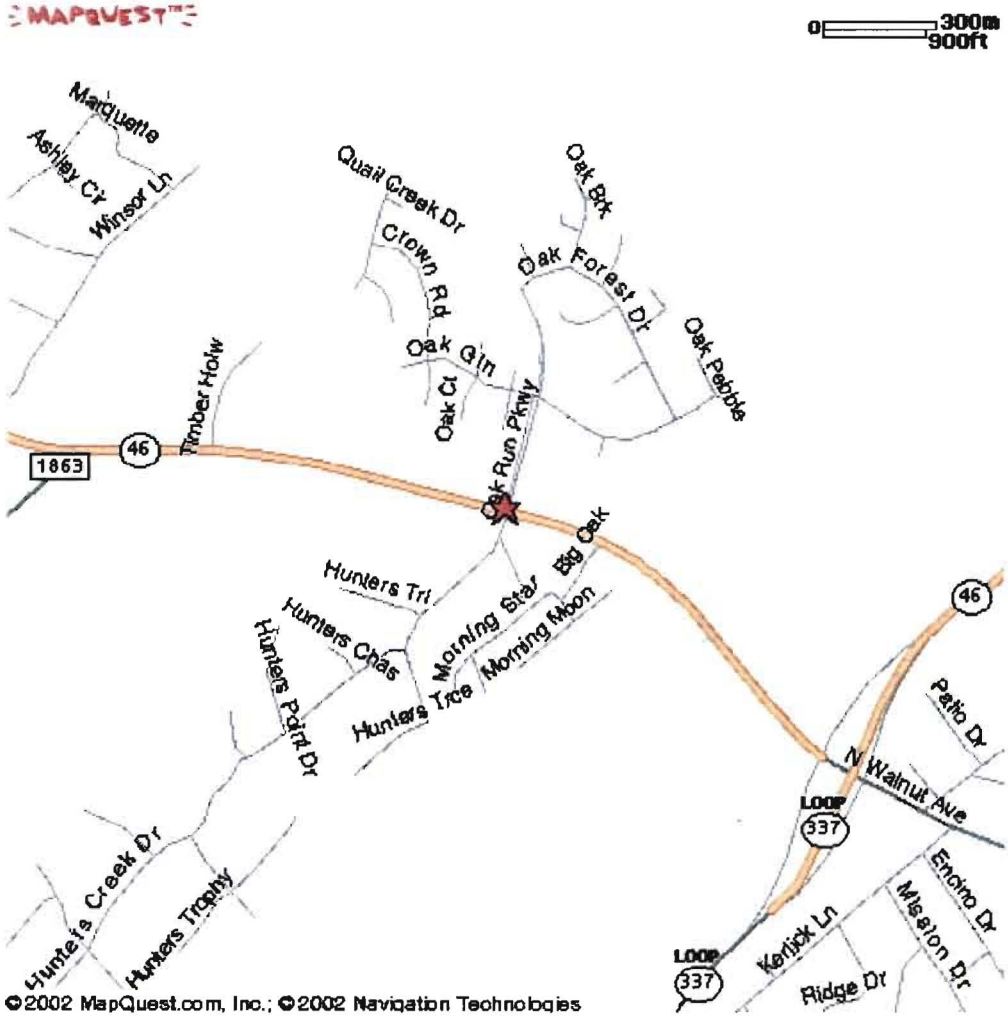
Print Name of ~~Customer~~/Agent

Signature of ~~Customer~~/Agent

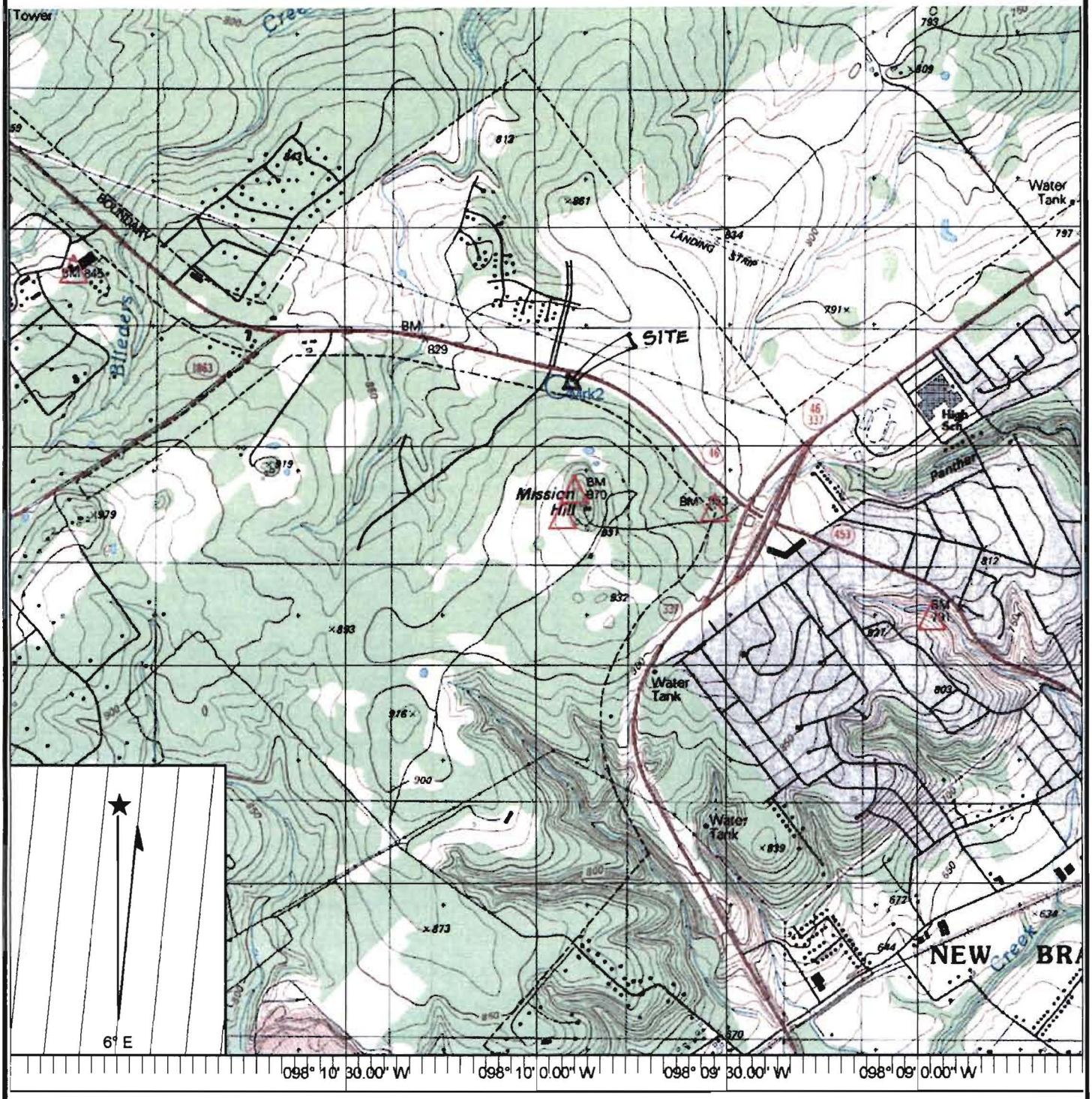
10/09/02
Date

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

N.T.S.



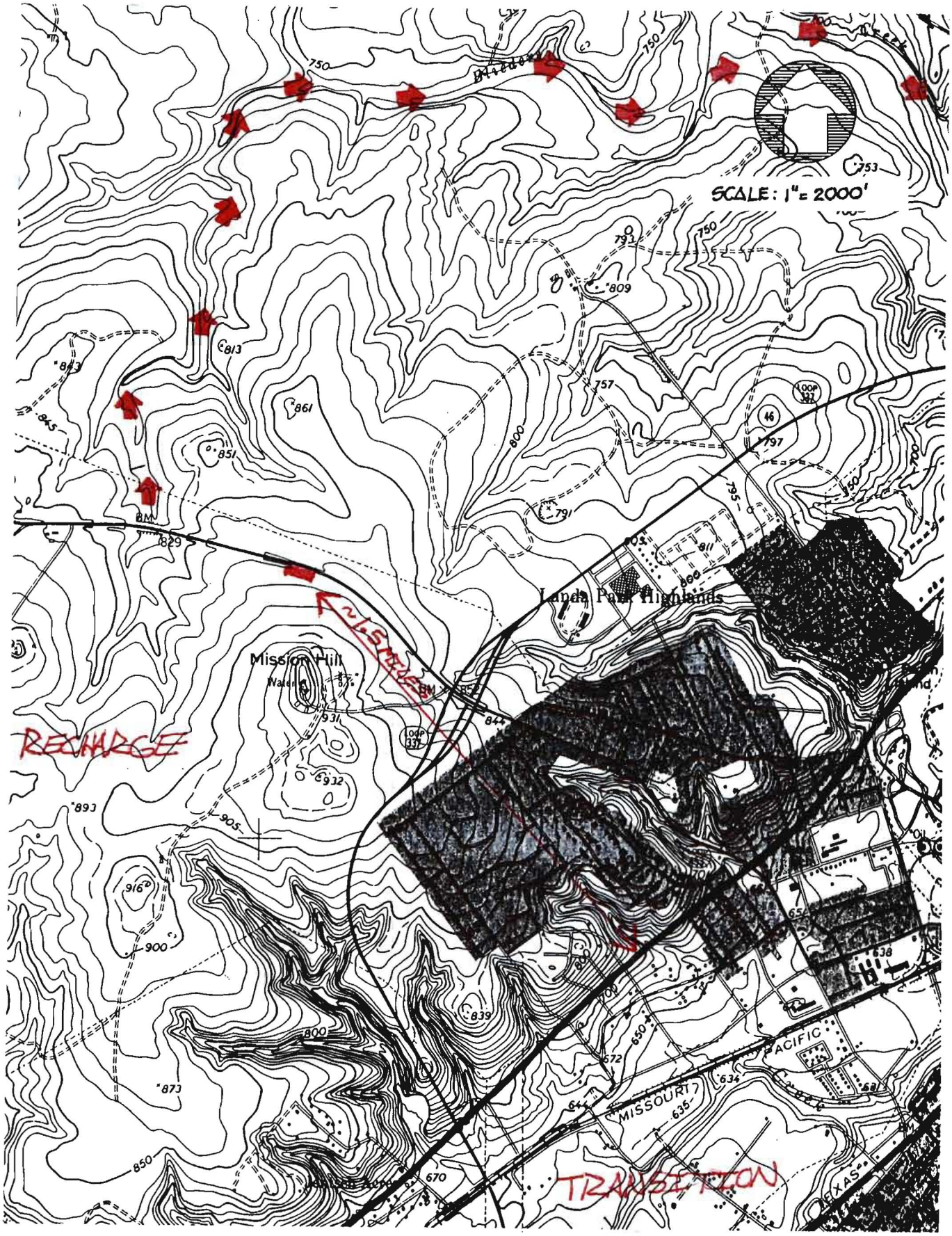
ATTACHMENT A
ROAD MAP



Name: NEW BRAUNFELS WEST
Date: 10/22/2002
Scale: 1 inch equals 2000 feet

Location: 029° 43' 06.3" N 098° 09' 58.3" W
Caption: TSS COMMERCIAL PROJECT
WATER POLLUTION ABATEMENT PLAN

ATTACHMENT
U.S.G.S. MAP



ATTACHMENT B
RECHARGE ZONE MAP

N.T.S.

EXISTING CONDITIONS AERIAL PHOTO

ATTACHMENT C – (0587)

PROJECT DESCRIPTION

The proposed 1.4 acre project is a commercial development which will include ten (10) lease spaces. The site is currently undeveloped and undisturbed. This project contributes flow to the Blieders Creek watershed. According to FEMA map references, the subject property lies within zone "x" indicating "areas determined to be outside 500 year floodplain elevations." The site is located within New Braunfels in Comal County, Texas. Potable water will be supplied by the New Braunfels Utility, NBU.

Currently, the site consists of mowed range/grass cover and clusters of cedar trees with overall average ground slopes of approximately 2% to 3%. Runoff generated on the site sheet flows from the highest point within the property to the north and west boundaries of the site into an existing pipe drain beneath Oak Run Parkway which is a Tx. DOT drainage facility.

The effects of the proposed improvements, which consist of a 14,600 square foot building, typical driveways, parking and sidewalks. are estimated to produce a runoff coefficient equivalent to C = 0.84.

The average daily population for the commercial development is estimated to be approximately 200 people at approximately 15 gallons per day per person. Sanitary sewer will be disposed of by conveyance to the New Braunfels Utility, NBU wastewater treatment plant.

The planned development will have an impervious cover percentage of approximately 79%.

No significant geologic features were found to exist during a Geologic Assessment features.

GEOLOGIC ASSESSMENT

FOR REGULATED ACTIVITIES
ON THE EDWARDS AQUIFER RECHARGE/TRANSITION ZONES
AND RELATING TO 30 TAC §213.5(b)(3), EFFECTIVE JUNE 1, 1999

PROJECT NAME: HWY. 46 TSS COMMERCIAL
1.4 Acres (Comal County)

TYPE OF PROJECT: XX WPAP __ AST __ SCS __ UST

LOCATION OF PROJECT: XX Recharge Zone __ Transition Zone __ Contributing Zone within the Transition Zone

PROJECT INFORMATION

1. XX Geologic or manmade features are described and evaluated using the attached **GEOLOGIC ASSESSMENT TABLE**.

2. Soil cover on the project site is 1 to 2 feet thick. In general, the soil present appears to have the ability to:

   __ transmit fluid flow to the subsurface.
   XX impede fluid flow to the subsurface.

3. XX **SOILS ATTACHMENT**. A narrative description of soil units and a soil profile, including thickness and hydrologic characteristics are attached at the end of this form.

4. XX A **STRATIGRAPHIC COLUMN** is attached at the end of this form that shows formations, members, and thicknesses. The outcropping unit should be at the top of the stratigraphic column.

5. XX A **NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY** is attached at the end of this form. The description must include a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure, and karst characteristics of the site.

6. XX Appropriate **SITE GEOLOGIC MAP(S)** are attached:

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

   Applicant's Site Plan Scale 1" = 20 '
   Site Geologic Map Scale 1" = 20 '

7. Method of collecting positional data:
   __ Global Positioning System (GPS) technology.
   XX Other method(s).

8. XX The project site is shown and labeled on the Site Geologic Map.

9. XX Surface geologic units are shown and labeled on the Site Geologic Map.

10. XX 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.

11. XX The Recharge Zone boundary is shown and labeled, if appropriate.

12. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, 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.
XX There are no wells or test holes of any kind known to exist on the project site.

ADMINISTRATIVE INFORMATION

13. XX One (1) original and three (3) copies of the completed assessment has been provided.

Date(s) Geologic Assessment was performed: 9-27-02
Date(s)

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

DAVID SEAGRAVES
Print Name of Geologist

(210) 377-1603
Telephone

(210) 377-1603
Fax

David Seagraves
Signature of Geologist

9-27-02
Date

Representing: Independent Consultant
(Name of Company)

HWY. 46 TSS COMMERCIAL
1.4 Acres (Comal County)

SOIL UNIT

The on-site soil consists of approximately one to two feet and thicker of a light reddish-brown clay loam with some gravel size chert fragments and an occasional limestone float rock.
The site contains a good grass cover with a moderate stand of medium size cedars. The site has been maintained and cleared of brush.
A gentle, uniform slope of approximately 3 percent exists and surface slope is to the north-northwest.
Overall, the thicker than average and uniform soil cover on the site has the ability to impede fluid movement into the subsurface.

PROJECT NAME: HWY. 46 TSS COMMERCIAL
1.4 Acres (Comal County)

STRATIGRAPHIC COLUMN

GEOLOGIC FORMATION	APPROXIMATE THICKNESS(FT.)	MEMBER	GEOLOGIC DESCRIPTION	WATER BEARING/PERMEABILITY PROPERTIES
ALLUVIUM (Qal)	45 *		Silt, sand, and gravel	In places yields water for stock and domestic wells
FLUVIATILE TERRACE DEPOSITS (Qt)	30 *		Gravel, limestone, dolomite and chert, sand, silt, and clay	In places yields water for stock and domestic wells
LEONA FORMATION (Qle)	30 *		Fine grained calcareous silt and coarse gravel	In places yields water for stock and domestic wells
UVALDE GRAVEL (Q-Tu)	30 *		Coarse flinty gravel in matrix of clay or silt.	Not known to yield water to wells in Bexar County
WILCOX GROUP — UNDIFFERENTIATED DEPOSITS (Ewl)	1,070		Thin-bedded sand and sandstone and some clay, lignite, and calcareous concretions.	Yields moderate supplies of water of good to poor quality.
MIDWAY GROUP — WILLS POINT FORMATION (Emw)	490		Arenaceous clay containing numerous arenaceous and calcareous concretions.	Not known to yield water to wells in Bexar County.
NAVARRO GROUP — MARLBROOK MARL (Kknm)	1,000		Glauconitic marl and calcareous clays	Not known to yield water to wells in Bexar County.
PECAN GAP MARL (Kpg)	185		Calcareous shale and marl with some bentonitic zones.	Not known to yield water to wells in Bexar County.
AUSTIN CHALK (Kau)	170		Limestone and argillaceous chalky limestone.	Yields small to large supplies of good to poor quality water.
EAGLE FORD SHALE (Kef)	30		Calcareous and sandy shale and some argillaceous limestone.	Not known to yield water to wells in Bexar County
BUDA LIMESTONE (Kbu)	60		Dense, hard limestone.	Yields sufficient water near the outcrop for stock and domestic use.
DEL RIO CLAY (Kdr)	40-60		Calcareous shale; clays.	Not water bearing.
EDWARDS AND ASSOCIATED LIMESTONE — GEORGETOWN FORMATION (Ked)	20-40		Dense, shaley limestone, mudstone and wackestone; isolated fossil molds.	Maybe water bearing, fractures are few and closed matrix permeability very low, total porosity less than 5%.
EDWARDS GROUP — SITE: PERSON FORMATION ~~(Ked)~~ (Kep)	60-100	CYCLIC MARINE	Hard, dense, recrystallized limestone; mudstone, rudistid bioclastic; some moldic porosity.	Many open fractures, low matrix permeability, total porosity 5-10%
	60-90	LEACHED COLLAPSED	Recrystallized, leached limestone; burrowed mudstone and wackestone, highly leached in places; solution breccias, vuggy, honeycombed.	Many open fractures, several cavernous zones, matrix permeability low to high, total porosity generally less than 20%, most porous and permeable part of Person Formation.
	20-24	REGIONAL DENSE MEMBER	Limestone, shaley to wispy, dense, mudstone, no open fractures.	Yields no water, total porosity less than 5%
KAINER FORMATION (Ked)	50-60	GRAINSTONE	Limestone, chalky to hard cemented miliold grainstone with associated beds of mudstones and wackestones; locally honeycombed in burrowed beds.	Yields little water, few open fractures, matrix permeability low to moderate, total porosity 5-15%.
	50-70	KIRSCHBERG EVAPORATE	Limestone and leached evaporitic rocks with boxwork porosity; most porous subdivision.	Many open fractures, cavernous layers, matrix permeability low to very high, total porosity 5-25%, most porous and permeable part of Edwards Group.
	110-150	DOLOMITIC	Limestone, recrystallized from dolomite, honeycombed in a few burrowed beds; more cavernous in upper part.	Many open fractures, matrix permeability, total porosity 5-20%.
WALNUT FORMATION (Ked)	40-60	SOMETIMES INCLUDED AS BASAL NODULAR MEMBER OF KAINER	Limestone, hard, dense; clayey mudstone to wackestone, nodular wispy, stylolitic, mottled, isolated molds.	Few open fractures, low matrix permeability, total porosity less than 10%.
GLEN ROSE FORMATION (Kgr)	650-700		Calcareous limestone; varying amounts of clay and sand; upper member karst structures and springs.	Upper member yields small to moderate quantities of generally poor quality water. The lower member yields fairly good water.

* Variable up to thickness given

(modified after Maclay and Small, 1976; Metcalf and Eddy, 1979)

HWY. 46 TSS COMMERCIAL
1.4 Acres (Comal County)

SITE-SPECIFIC GEOLOGY

The on-site geological unit is the Person Formation of the Edwards Group as referenced by the hydrogeologic subdivisions map of the U.S.G.S. Water-Resources Investigations Report 94-4117 (Comal County) and the Geologic Map of the New Braunfels, Texas 30X60 Minute Quadrangle - 2000 (Bureau of Economic Geology). Actual exposures of the Person Fm. were not observed on the site due to the uniform soil cover. Development and soil cover adjacent to the site did not allow for observations of the Person Fm. as well.

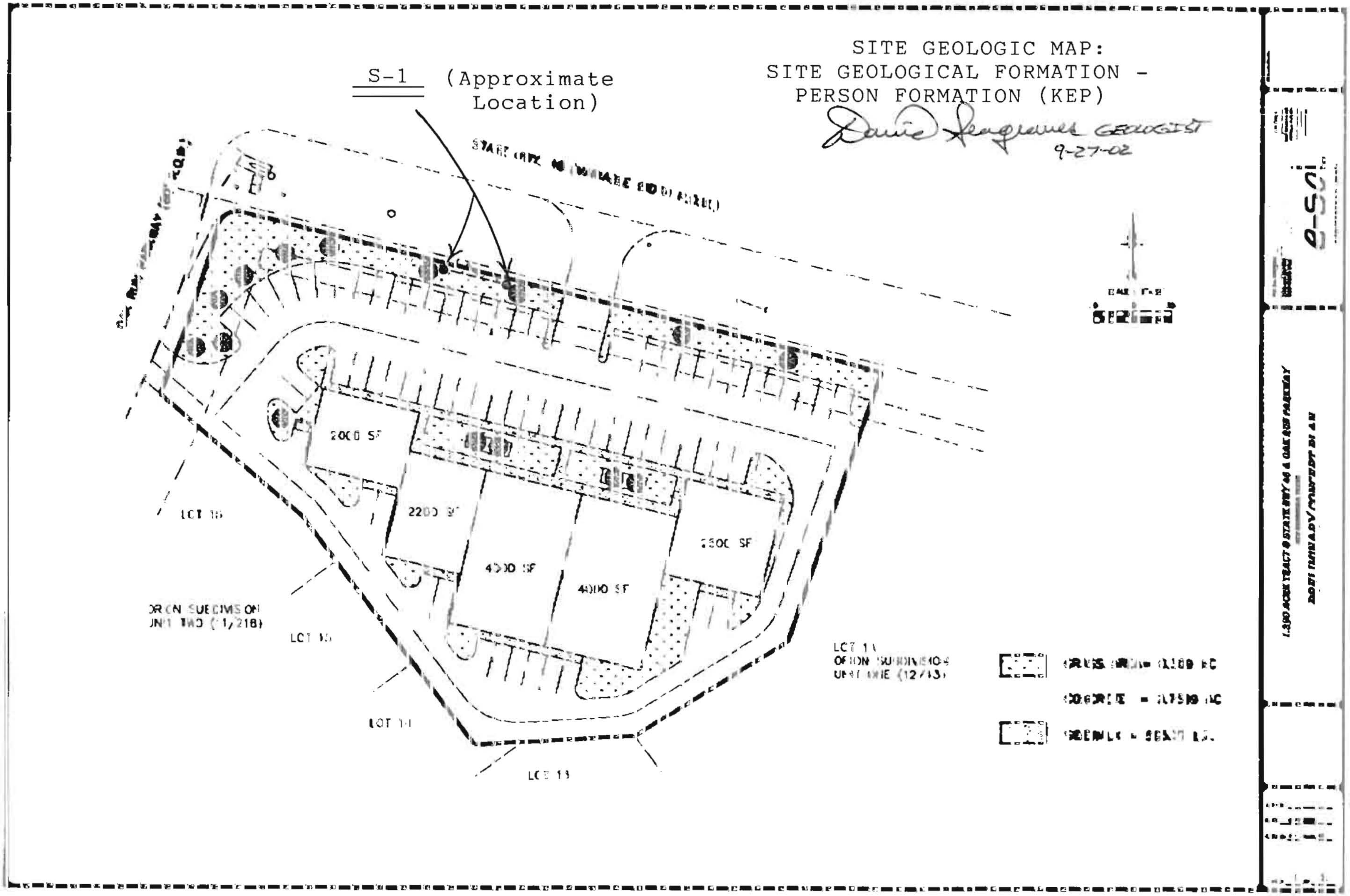
Due to the soil cover the site appears to be featureless. Several subtle depressions were noted, but were not large enough to be classified as features. These subtle depressions could be remnants of root balls as the tract is well maintained.

No karst or structural features were observed at the surface on the site.

The nearest recorded fault traces (Ref: U.S.G.S. 94-4117) are approximately 1/4 mile in either direction (northwest and southeast) from the site. These fault traces were not verified.

The site is along the north flank of Mission Hill and is approximately one and one/half miles from the Recharge-Transition Zone boundary to the southeast (Comal Springs Fault).

Due to the clayey soil cover at the surface of the site, it appears that the existing geologic conditions have the ability to impede fluid movement into the subsurface.


SITE GEOLOGIC MAP:
SITE GEOLOGICAL FORMATION -
PERSON FORMATION (KEP)
S-1 (Approximate Location)
GEOLOGIST
9-27-02
2000 SF
2200 SF
4000 SF
4000 SF
LOT 13

1.4 ACRES (COMAL COUNTY)

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: HWY. 46 TSS COMMERCIAL

FEATURE ID			FEATURE CHARACTERISTICS																						PHYSICAL SETTING																
1A	1B	1C	2	3				4			5	6		7			8			9				10			11	12			13				14					15	16			17
LOCATION	TYPE (1)	POINTS	GEOLOGIC FORMATION	VERTICAL FEATURE (FEET)			HORIZONTAL FEATURE (FEET)			LENGTH & WIDTH (FEET)	TREND (C, CD, FR, FZ, SC, SH)		DENSITY (FR, VF)			APERTURE (FR, VR)			INFILLING (CD, FR, FZ, SC, SH, VR)				RELATIVE INFILTRATION RATE			SUB-TOTAL	SENSITIVITY			DRAINAGE AREA (ACRES)				TOPOGRAPHY (2)					SUB-TOTAL	POTENTIAL RECHARGE			COMMENTS
				C, CD, SC, SH			C, SC			FZ, FR, VR, Z			0	5	10	0	5	10	0	5	10	15	0	10	30					0	5	10	15	0	5	10	15	20					
				X	Y	Z	X	Y	Z		DIRECTION	DOMINANT	LOW	MODERATE	HIGH	SMALL	MEDIUM	LARGE	CEMENTED	FINE	COARSE	NONE	NONE/LOW	MODERATE	HIGH		NOT <25	POSSIBLE 25 - 60	SENSITIVE >60	<1	<10	<60	>60	WALL	HILLTOP	HILLSIDE	FLOODPLAIN	STREAM BED		NONE/LOW <15	MODERATE 15 -20	HIGH >20	YES
S-1	MM	35	KEP																				0			35		✓		0						10			10	✓			YES

(1) C = 35, CD = 10, FR = 0, FZ = 15, MM = 35, SC = 10, SH = 20, VR = 0, ZONE = 35

(2) WALL = Vertical/near vertical wall above 100-yr floodplain
FLOODPLAIN = 100-yr floodplain
STREAM BED = Ordinary High Water Mark

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

David Yeager 9-27-02

Geologist signature Date

Sheet 1 of 1

TNRCC-0585-Table (Rev. 8/1/99)

HWY. 46 TSS COMMERCIAL
1.4 Acres (Comal County)

COMMENTS

S-1 The man-made feature consists of an existing fire hydrant and two water meter boxes with associated water valve boxes. The feature is located approximately along the north-central property line. The actual location and orientation of the main water line and possible feeder lines within the subsurface is unknown (as well as depth).
At the surface, the features are within the native soil cover and the relative infiltration rate appears to be none to low.
The features are in line, within 50 feet of one another.
Drainage to the feature appears to be one acre or less due to the residential development upslope and apparent diversion of runoff.

Water Pollution Abatement Plan Application
for Regulated Activities
on the Edwards Aquifer Recharge Zone
and Relating to 30 Tac §213.5(b), Effective June 1, 1999

REGULATED ENTITY NAME: ***TASOS A TEXAS GENERAL PARTNERSHIP***

REGULATED ENTITY INFORMATION

1. The type of project is:
   - ___ Residential: # of Lots:
   - ___ Residential: # of Living Unit Equivalents:
   - ☒ Commercial
   - ___ Industrial
   - ___ Other:

2. Total site acreage (size of property): ***1.4 ACRE***

3. Projected population: ***200 PERSONS***

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

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	***15,440***	÷ 43,560 =	***0.35***
Parking	***29,000***	÷ 43,560 =	***0.67***
Other paved surfaces	***3,420***	÷ 43,560 =	***0.08***
Total Impervious Cover	***47,860***	÷ 43,560 =	***1.10***
Total Impervious Cover ÷ Total Acreage x 100 =			***79*** %

5. ☒ **ATTACHMENT A - Factors Affecting Water Quality.** A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.

6. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

FOR ROAD PROJECTS ONLY
Complete questions 7-12 if this application is exclusively for a road project.

7. Type of project:
   - ___ TXDOT road project.
   - ___ County road or roads built to county specifications.
   - ___ City thoroughfare or roads to be dedicated to a municipality.
   - ___ Street or road providing access to private driveways.
8. Type of pavement or road surface to be used:

__ Concrete
__ Asphaltic concrete pavement
__ Other:

9. Length of Right of Way (R.O.W.): _____ feet.
Width of R.O.W.: _____ feet.
L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

10. Length of pavement area: _____ feet.
Width of pavement area: _____ feet.
L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = ____% impervious cover.

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

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

STORMWATER TO BE GENERATED BY THE PROPOSED PROJECT

13. **ATTACHMENT B - Volume and Character of Stormwater.** A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

WASTEWATER TO BE GENERATED BY THE PROPOSED PROJECT

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

100 % Domestic	***7,500*** gallons/day
__ % Industrial	_____ gallons/day
__ % Commingled	_____ gallons/day
TOTAL	_____ gallons/day

(200 persons @ 15 gallons/ person * 2.5 peaking factor = 7,500 gallons / day)

15. Wastewater will be disposed of by:
__ **On-Site** Sewage Facility (OSSF/Septic Tank):
ATTACHMENT C - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.
__ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC §285.

☒ Sewage Collection System (Sewer Lines):

- ___ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.
- ___ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.
  - ___ The SCS was previously submitted on _____.
  - ___ The SCS was submitted with this application.
  - ___ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to executive director approval.

The sewage collection system will convey the wastewater to the (name) Treatment Plant. The treatment facility is : ***New Braunfels Utility, NBU wastewater treatment plant.***

- ☒ existing.
- ___ proposed.

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

SITE PLAN REQUIREMENTS

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

17. The Site Plan must have a minimum scale of 1" = 400'.
    Site Plan Scale: 1" = ***20***'.

18. 100-year floodplain boundaries
    - ___ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
    - ☒ No part of the project site is located within the 100-year floodplain.

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

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
    - ___ The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
    - ___ 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 30 TAC §238.
    - ☒ There are no wells or test holes of any kind known to exist on the project site.

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

Geologic Assessment.

___ **ATTACHMENT D - Exception to the Required Geologic Assessment.** An exception to the Geologic Assessment requirement is requested and explained in ATTACHMENT D provided at the end of this form. Geologic or manmade features were found and are shown and labeled.

___ **ATTACHMENT D - Exception to the Required Geologic Assessment.** An exception to the Geologic Assessment requirement is requested and explained in ATTACHMENT D provided at the end of this form. No geologic or manmade features were found.

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

23. ☒ Areas of soil disturbance and areas which will not be disturbed.

24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

25. ☒ Locations where soil stabilization practices are expected to occur.

26. ☒ Surface waters (including wetlands).

27. ___ Locations where stormwater discharges to surface water or sensitive features.
☒ There will be no discharges to surface water or sensitive features.

ADMINISTRATIVE INFORMATION

28. ☒ One (1) original and three (3) copies of the completed application have been provided.

29. ☒ Any modification of this WPAP will require TNRCC executive director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **WATER POLLUTION ABATEMENT PLAN APPLICATION FORM** is hereby submitted for TNRCC review and executive director approval. The form was prepared by:

Print Name of ~~Customer/Agent~~

Signature of ~~Customer/Agent~~

10/09/02
Date

ATTACHMENT A - (0584)

FACTORS AFFECTING WATER QUALITY

The potential sources of contamination on the proposed project site include, but are not limited to, hydrocarbons, such as oil and grease, vehicle / machinery fluid leaks, asphalt paving oils, trash / debris, 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 buildings. Portable toilets will be placed on site for use by construction workers during formal construction activities. All waste / trash / debris will be hauled off-site daily, as generated.

Prior to commencing on-site activities, stormwater pollution prevention will include silt fences along downgradient areas for temporary erosion and sedimentation control, installation of rock berms with silt fencing, installation of a stabilized construction entrance/exit to reduce sediment removal from site, and installation of a construction storage/staging area and a concrete truck washout pit for construction as shown in the TNRCC Technical Guidance Manual details. The construction contractor will be responsible for the installation, repair and upkeep of all control measures.

ATTACHMENT B - (0584)

VOLUME AND CHARACTER OF WASTEWATER

Currently, the site consists of mowed range/grass cover and clusters of cedar trees with overall average ground slopes of approximately 2% to 3% (C = 0.55). Runoff generated on the site sheet flows from the highest point within the property to the north and west boundaries of the site into an existing pipe drain beneath Oak run Parkway which is a Tx. DOT drainage facility.

The effects of the proposed improvements, which consist of a 14,600 square foot building, typical driveways, parking and sidewalks are estimated to produce a runoff coefficient equivalent to C = 0.84 for the planned on-site improvements.

Runoff quantities are estimated below using the rational drainage equation:

PT.	AREA (ACRES)		C	Tc min.	I In./hr.	Q c.f.s.	FREQ
	INCREMENT	TOTAL					
Site	1.4 AC	1.4 AC	0.84	11	5.60	6.6	5
Site	1.4 AC	1.4 AC	0.84	11	7.21	8.5	25
Site	1.4 AC	1.4 AC	0.84	11	7.87	9.3	100

All stormwater originating on-site will be directed to temporary and permanent pollution abatement measures.

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

REGULATED ENTITY NAME: ***TASOS A Texas Limited Partnership***

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

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

___ Aboveground storage tanks with a cumulative storage capacity of less that 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 TNRCC prior to moving the tanks onto the project.
__☒__ Fuels and hazardous substances will not be stored on-site.

2. __☒__ **ATTACHMENT A - Spill Response Actions**. A description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is provided at the end of this form.

3. __☒__ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. __☒__ **ATTACHMENT B - Potential Sources of Contamination.** Describe in an attachment at the end of this form any other activities or processes which may be a potential source of contamination.
___ The are no other potential sources of contamination.

SEQUENCE OF CONSTRUCTION

5. __☒__ **ATTACHMENT C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is provided at the end of this form. For each activity described, an estimate of the total area of the site to be disturbed by each activity is given.

6. __☒__ 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: ***This project contributes flow to the Blieders Creek watershed.***

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

7. ☐ **ATTACHMENT D - Temporary Best Management Practices and Measures.** A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

☐ TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information has been provided in the attachment at the end of this form

a. A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

b. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

d. A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TNRCC inspections, or during excavation, blasting, or construction.

8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

___ **ATTACHMENT E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is provided at the end of this form. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☐ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☐ **ATTACHMENT F - Structural Practices.** Describe the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site. Placement of structural practices in floodplains has been avoided.

10. ☐ **ATTACHMENT G - Drainage Area Map**. A drainage area map is provided at the end of this form to support the following requirements.

___ For areas that will have more than 10 acres within a common drainage area

disturbed at one time, a sediment basin will be provided.

___ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

___ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

__☐__ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. ~~A smaller sediment basin and/or sediment trap(s) will be used in combination with other~~ erosion and sediment controls within each disturbed drainage area ***are proposed. Silt fencing and rock berms will be used as temporary sedimentation traps.***

11. ***N/A*** **ATTACHMENT H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure has been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are provided as at the end of this form.

12. __☐__ **ATTACHMENT I - Inspection and Maintenance for BMPs.** A plan for the inspection of temporary BMPs and measures and for their timely maintenance, repair, and, if necessary, retrofit is provided at the end of this form. A description of documentation procedures and recordkeeping practices is included in the plan.

13. __☐__ All control measures must be properly selected, installed, and maintained in accordance with the manufacturers specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicates a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. __☐__ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. __☐__ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. __☐__ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

SOIL STABILIZATION PRACTICES

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

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

the end of this form.

18. ☐ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☐ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

ADMINISTRATIVE INFORMATION

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

21. ☐ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TNRCC Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TNRCC has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☐ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

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 TNRCC review and executive director approval. The application was prepared by:

Print Name of ~~Customer~~/Agent

Signature of ~~Customer~~/Agent

10/09/02
Date

ATTACHMENT A – (0602)

SPILL RESPONSE ACTIONS

Hazardous Materials or hydrocarbons will not be stored on the project site during before, during, or after commencement of construction activity. The contractor will be notified of this requirement and will be required to fuel all construction vehicles and heavy equipment off-site. However in the event of a possible or unforseen accident in which a spill occurs the following sequence of events will occur in order to contain the incident.

A. Sand material will place in and around the spill to contain and absorb the spilled material.

B. The City of San Antonio Fire Department will be notified if the possibility of fire exists.

C. TNRCC and SAWS will be notified and a written report of the incident provided to detail the specifics of the event.

D. All materials will be excavated and placed within appropriate receptacles and disposed properly at an appropriate landfill facility.

ATTACHMENT B – (0602)

POTENTIAL SOURCES OF CONTAMINATION

The potential sources of contamination on the proposed project site include, but are not limited to, hydrocarbons, such as oil and grease, vehicle / machinery fluid leaks, asphalt paving oils, trash / debris, 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 buildings. Portable toilets will be placed on site for use by construction workers during formal construction activities. All waste / trash / debris will be hauled off-site daily, as generated.

Prior to commencing on-site activities, stormwater pollution prevention will include silt fences along downgradient areas for temporary erosion and sedimentation control, installation of rock berms with silt fencing, installation of a stabilized construction entrance/exit to reduce sediment removal from site, and installation of a construction storage/staging area and a concrete truck washout pit for construction as shown in the TNRCC Technical Guidance Manual details. The construction contractor will be responsible for the installation, repair and upkeep of all control measures.

ATTACHMENT C – (0602)

SEQUENCE OF MAJOR ACTIVITIES

The sequence of activities on this site will be site preparation and construction. Site preparation activities will begin with clearing areas designated to be disturbed, followed by grading including excavation and embankment. Construction activities on the previously cleared and graded areas will include installation/construction of the planned improvements. Immediately following will be the installation of vegetated filter strips. The last activity will be site cleanup, including the removal of excess materials.

ATTACHMENT D – (0602)

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Upgradient flow will be allowed across the site from developed adjacent residential properties and flow into an existing drain pipe along Hwy. 46. The existing adjacent residential development pollution abatement measures consist of vegetated rear yard filter strips.

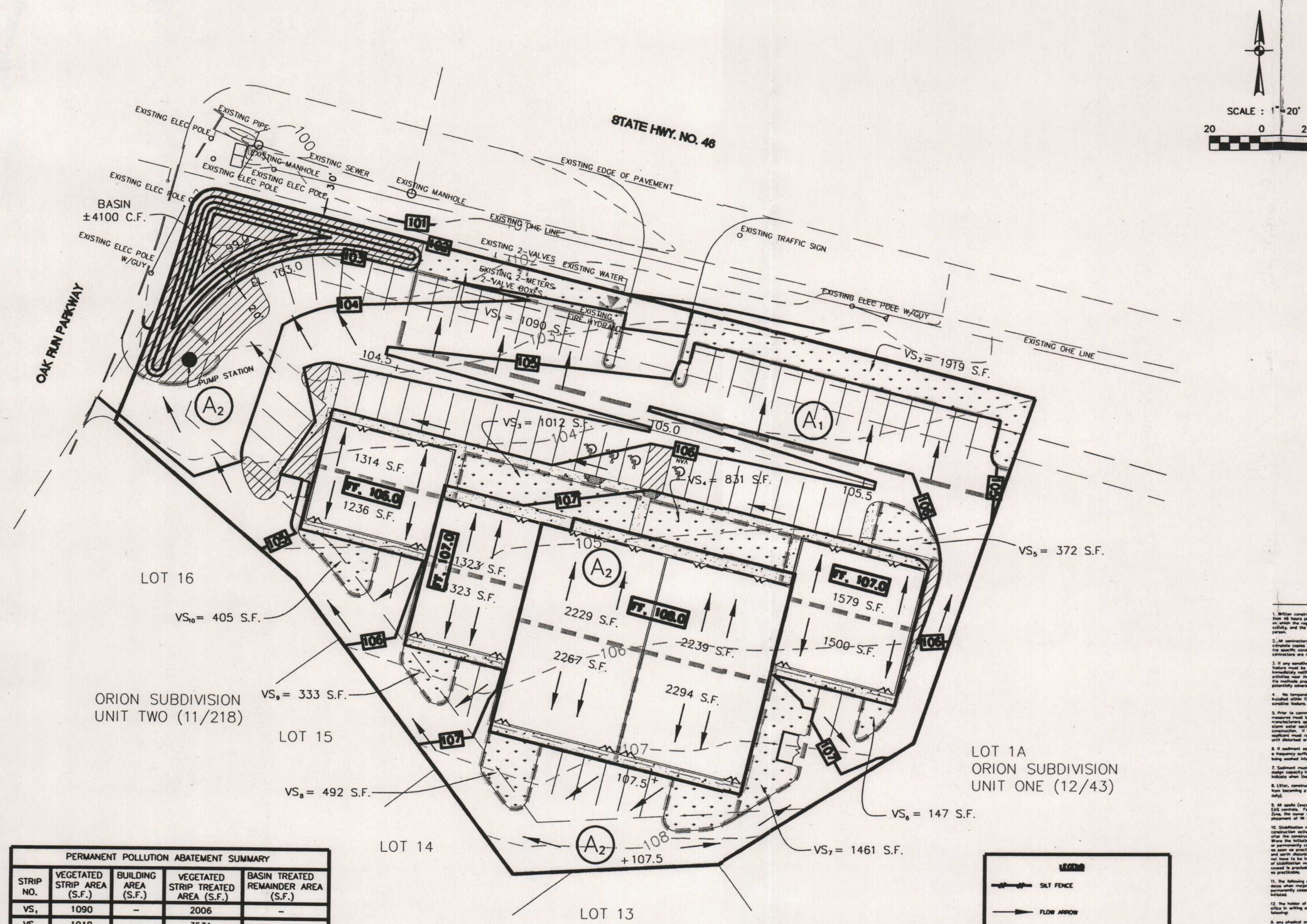
Prior to commencing on-site activities, stormwater pollution prevention will include silt fences along downgradient areas for temporary erosion and sedimentation control, installation of rock berms with silt fencing upgradient of geologic features where shown on plans, installation of a stabilized construction entrance/exit to reduce sediment removal from site, and installation of a construction storage/staging area and a concrete truck washout pit for each unit/phase of construction as shown in the TNRCC Technical Guidance Manual details. The construction contractor will be responsible for the installation, repair and upkeep of all control measures.

Soil disturbances shall be minimized and kept to minimum time periods, existing natural vegetation including grass, weeds, trees, shrubs, etc. will be utilized and earthwork for utilities and for storm drainage piping shall be coordinated to minimize area disturbance.

ATTACHMENT F – (0602)

STRUCTURAL PRACTICES

Prior to commencing on-site activities, stormwater pollution prevention will include silt fences along downgradient areas for temporary erosion and sedimentation control, installation of rock berms with silt fencing upgradient of geologic features where shown on plans, installation of a stabilized construction entrance/exit to reduce sediment removal from site, and installation of a construction storage/staging area and a concrete truck washout pit for each unit/phase of construction as shown in the TNRCC Technical Guidance Manual details. The construction contractor will be responsible for the installation, repair and upkeep of all control measures.



LOCATION MAP
N.T.S.

PERMANENT POLLUTION ABATEMENT SUMMARY				
STRIP NO.	VEGETATED STRIP AREA (S.F.)	BUILDING AREA (S.F.)	VEGETATED STRIP TREATED AREA (S.F.)	BASIN TREATED REMAINDER AREA (S.F.)
VS_1	1090	–	2006	–
VS_2	1919	–	3531	–
VS_3	1012	2896	1862	1034
VS_4	831	2896	1529	1367
VS_5	372	1579	685	894
VS_6	147	750	271	479
VS_7	1461	3044	2688	356
VS_8	492	2267	905	1362
VS_9	333	1323	613	710
VS_{10}	450	1236	828	408
			TOTAL	6610

PERVIOUS COVER = 0.090 AC
VEGATATIVE STRIP = 0.19 AC
CONCRETE DRIVES= 0.68 AC
SIDEWALK = 0.08 AC
A_1 = 0.13 AC (5,500 S.F.)
A_2 = 0.81 AC (35,284 S.F.)

LEGEND

- SILT FENCE
- FLOW ARROW
- ROCK BERM w/SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA.
- CONCRETE TRUCK WASHOUT PIT
- WATERSHEDS
- PROPOSED CONTOURS

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

1. Written construction notification must be given to the appropriate TNRCC 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.

2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan and the TNRCC 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.

3. If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TNRCC 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 TNRCC has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.

4. 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.

5. 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.

6. 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).

7. 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.

8. 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).

9. 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.

10. 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.

11. The following records shall be maintained and made available to the TNRCC 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.

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 following:

A. 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;

B. 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 Regional Office
1921 Cedar Bend, Suite 150
Austin, Texas 78758-5336
Phone (512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
140 Heimer, Suite 360
San Antonio, Texas 78232-5042
Phone (210) 490-3096
Fax (210) 545-4329

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

ATTACHMENT "G"

REVISIONS:

e-sol engineered Solutions, Inc.
P.O. Box 690964
San Antonio, TX • 78269
Tel. (210) 695-ESOL
Fax (210) 695-ESOL
www.e-sol-tx.com

HWY. 46 TSS COMMERICAL
1.39 AC BUSINESS CENTER
NEW BRAUNFELS, TEXAS

PERMANENT POLLUTION ABATEMENT PLAN

JOB NO. ______
DATE: OCT 2002
CHECKED AG DRAWN GM
SHEET 11 OF 18

INSPECTION AND MAINTENANCE FOR BMPS

Designated and qualified person(s) shall inspect Pollution Control Measures every fourteen days and within 24 hours after a storm event greater than 0.5 inches of rainfall. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm Water NPDES data for a period of three years after the date of the inspection. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, and (6) concrete truck rinse-out pit for signs of potential failure. Deficiencies noted during the inspection will be corrected and documented within seven (7) calendar days following the inspection or before the next anticipated storm event if practicable.

ATTACHMENT I – (0602)

(Page 2 of 2)

Pollution Prevention Measure	Inspected	Corrective Action Description	Date Completed
General			
Re- vegetation			
Erosion/sediment controls			
Vehicle exits			
Material areas			
Equipment areas			
Concrete rinse			
Construction debris			
Trash receptacles			
Infrastructure			
Roadway clearing			
Utility clearing			
Roadway grading			
Utility construction			
Drainage construction			
Roadway base			
Roadway surfaces			
Site cleanups			
Building			
Clearing for building			
Foundation grading			
Utility construction			
Foundation construction			
Building construction			
Site grading			
Site cleanup			

By my signature below, I certify that all items are acceptable and the project site is in compliance with SWPPP.

Inspector's Name _____ Inspector's Signature _____

Name of Owner/Operator (Firm) _____ Date _____

ATTACHMENT J – (0602)

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Soil disturbances shall be minimized and kept to minimum time periods, existing natural vegetation including grass, weeds, trees, shrubs, etc. will be utilized and earthwork for utilities and for storm drainage piping shall be coordinated to minimize area disturbance. Disturbed soil will be stabilized prior to removal of pollution abatement controls.

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

REGULATED ENTITY NAME: ***TASOS A Texas Limited Partnership***

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

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

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

   ☐ The TNRCC Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
   ☐ A technical guidance other than the TNRCC TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is provided ~~below~~ ***in Appendix 1.***

3. ☐ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

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.

   ___ This site will be used for low density single-family residential development and has 20% or less impervious cover.
   ___ This site will be used for low density single-family residential development but has more than 20% impervious cover.
   ☐ This site will not be used for low density single-family residential development.

5. ☐ The executive director may waive the requirement for other permanent BMPs for multi-family 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.** This site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is found at the end of this form.

__◘__ This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

___ This site will not be used for multi-family residential developments, schools, or small business sites.

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

___ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is identified as **ATTACHMENT B** at the end of this form.

___ If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT B** at the end of this form.

__◘__ If permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT B** at the end of this form .

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

__◘__ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is identified as **ATTACHMENT C** at the end of this form.

___ If permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, an explanation is provided as **ATTACHMENT C** at the end of this form.

8. ***N/A*** **ATTACHMENT D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is provided at the end of this form. Each feature identified in the Geologic Assessment as "sensitive" or "possibly sensitive" has been addressed.

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.

__◘__ The permanent sealing of or diversion of flow from a naturally-occurring "sensitive" or "possibly sensitive" feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring "sensitive" or "possibly sensitive" features on this site.

___ **ATTACHMENT E - Request to Seal Features.** A request to seal a naturally-occurring "sensitive" or "possibly sensitive" feature, that includes a justification as to why no reasonable and practicable alternative exists, is found at the end of this form. A request and justification has been provided for each feature.

10. ☐ **ATTACHMENT F - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TNRCC Construction Notes, all man-made or naturally occurring geologic features, all proposed structural measures, and appropriate details must be shown on the construction plans.

11. ☐ **ATTACHMENT G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.

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

___ Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.

___ **ATTACHMENT H - Pilot-Scale Field Testing Plan.** A plan for pilot-scale field testing is provided at the end of this form.

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

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

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

15. ☐ A copy of the transfer of responsibility must be filed with the executive director at the

appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

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

Print Name of ~~Customer~~/Agent

Signature of ~~Customer~~/Agent

10/09/02
Date

ATTACHMENT B – (0600)

BMP'S FOR UPGRADIENT STORMWATER

Upgradient flow will be allowed across the site from developed adjacent residential properties and flow into an existing drain pipe along Hwy. 46. The existing adjacent residential development pollution abatement measures consist of vegetated rear yard filter strips.

ATTACHMENT C – (0600)

BMP'S FOR ON-SITE STORMWATER

Runoff from each watershed will be treated with vegetated filter strips constructed to treat the on-site runoff for the particular watershed. These vegetative filter strips were designed in accordance with the TNRCC Technical Guidance Manual (1999) to comply with 30 TAC Chapter 213 requirements.

Vegetative filter strips will be used to prevent the pollution of lows/surface streams adjacent to the site and have been designed in accordance with the TNRCC TGM, which indicates a minimum of 80% of the increased TSS pollutant load is estimated to be removed. Seven (3) naturally occurring possibly sensitive features were identified on the site in the Geologic Assessment and are being preserved and protected by the use of a sodded, rock berm with a silt fence core . Proposed site grading will generate sheet drainage flow.

Additionally a sedimentation and irrigation pump basin will be utilized to treat areas not covered by vegetative filter strips.

ATTACHMENT G – (0600)

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN FOR PERMANENT POLLUTION ABATEMENT MEASURES

VEGETATIVE FILTER STRIPS

Planted or preserved vegetative filter strips will be watered until fully established. After heavy rain, inspection will occur for erosion, concentrated flow or bare spots. Damaged areas will be repaired within 7 days by placement of seed in the disturbed area or block sodding as appropriate.

SEDIMENTATION AND IRRIGATION PUMP BASIN

Basin shall be vegetated and watered until fully established stand of grass exists. After heavy rain, inspection will occur for erosion and unclogged operation of irrigation pump. Damaged areas or pump equipment will be repaired within 7 days by placement block sodding as appropriate or part replacement within irrigation system.

2-5-03

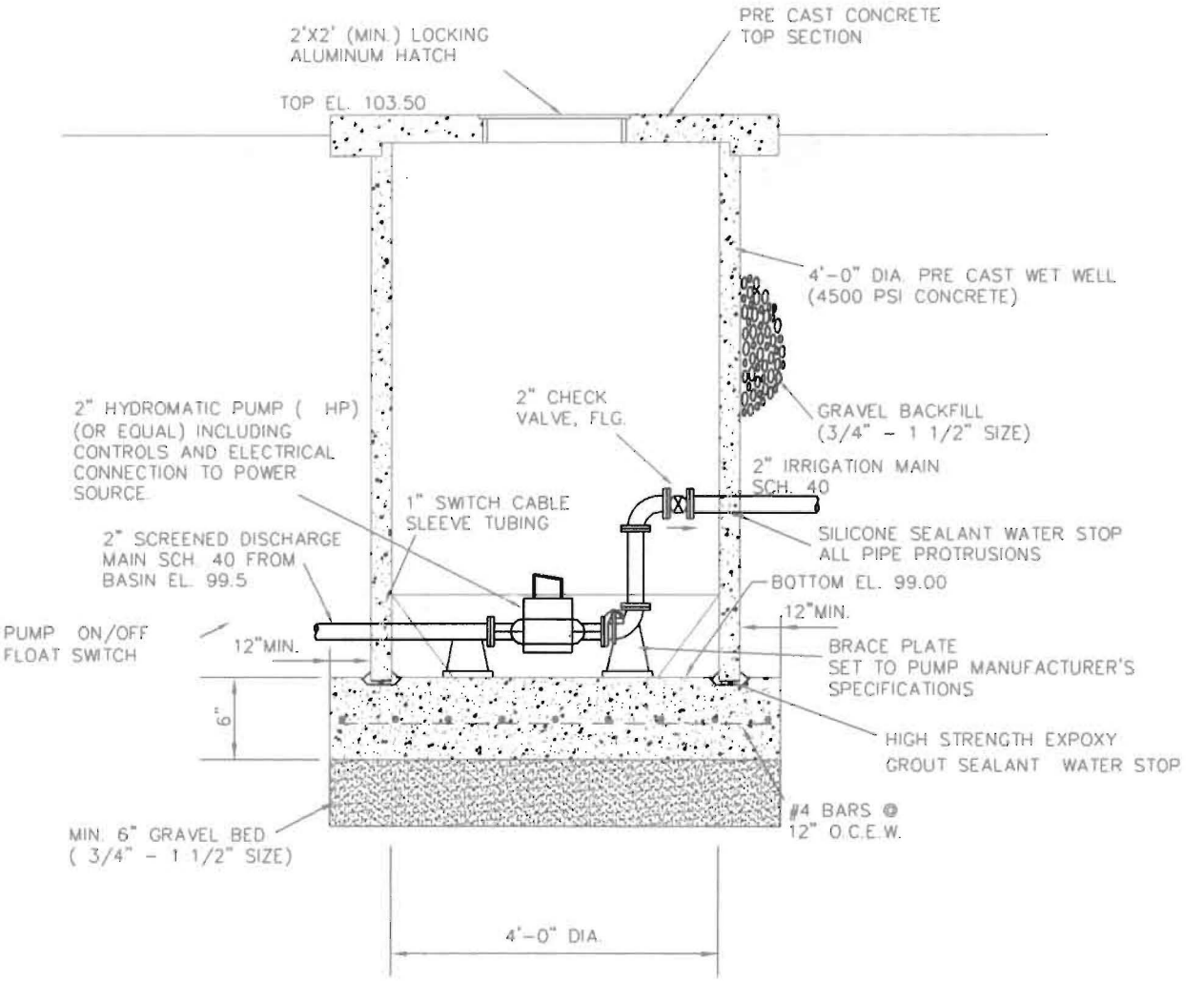
Applicant / (Agent) 's Signature Date

ATTACHMENT I – (0600)

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Proposed site grading will generate sheet drainage flow. Additionally, disturbed soil will be stabilized prior to removal of pollution abatement controls.

APPENDIX 1



IRRIGATION PUMP VAULT DETAIL

NOT-TO-SCALE

AGENT AUTHORIZATION FORM
FOR REQUIRED SIGNATURE
EDWARDS AQUIFER PROTECTION PROGRAM
RELATING TO 30 TAC CHAPTER 213
EFFECTIVE JUNE 1, 1999

I ARMANDO MARTINEZ,
Print Name

PRESIDENT
Title - Owner/President/Other

of TASOS A TEXAS GENERAL PARTNERSHIP
Corporation/Partnership/Entity Name

have authorized ENVIRONMENTAL ENGINEERING SOLUTIONS, e-sol
Print Name of Agent/Engineer

of ENVIRONMENTAL ENGINEERING SOLUTIONS, e-sol
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 Natural Resource Conservation Commission (TNRCC) 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 TNRCC's approval letter. The TNRCC is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and the forms must accompany the completed application.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TNRCC cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. For applicants who are not the property owner, but who have the right to control and possess and control the property, additional authorization is required from the owner.

Applicant's Signature

Date 10-3-02

THE STATE OF TX. §

County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared Armando Martinez 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 03 day of Oct., 02

GABRIEL M. GUTIERREZ
Notary Public
STATE OF TEXAS
My Comm.Exp. Nov. 19, 2005

NOTARY PUBLIC

Typed or Printed Name of Notary

Gabriel Gutierrez

MY COMMISSION EXPIRES:

Nov. 19- 2005

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
EDWARDS AQUIFER PROTECTION PLAN
APPLICATION FEE FORM

NAME OF PROPOSED PROJECT: HWY. 46 TSS COMMERCIAL
PROJECT LOCATION: SOUTHWEST CORNER OF S.H. 46 AND OAK RUN PKWY.
NAME OF APPLICANT: ARMANDO MARTINEZ, TASOS A TEXAS GENERAL PARTNERSHIP
APPLICANT'S ADDRESS: 1202 HALLMARK, SUITE 204, SANA NTONIO, TEXAS, 78216
CONTACT PERSON: ARNULFO (ARNIE) GONZALEZ, P.E. PHONE: 210 722 3765
Please Print

AUSTIN REGIONAL OFFICE (3373)
☐ Hays
☐ Travis
☐ Williamson

SAN ANTONIO REGIONAL OFFICE (3362)
☐ Bexar
☒ Comal
☐ Kinney
☐ Medina
☐ Uvalde

APPLICATION FEES MUST BE PAID BY CHECK, CERTIFIED CHECK, OR MONEY ORDER, PAYABLE TO THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION. YOUR CANCELED CHECK WILL SERVE AS YOUR RECEIPT. **THIS FORM MUST BE SUBMITTED WITH YOUR FEE PAYMENT**. THIS PAYMENT IS BEING SUBMITTED TO (CHECK ONE):

☒ **SAN ANTONIO REGIONAL OFFICE**
☐ **Mailed to TNRCC**:
TNRCC - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ **AUSTIN REGIONAL OFFICE**
☐ **Overnight Delivery to TNRCC**:
TNRCC - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
512/239-0347

Type of Plan	Size	Fee Due
Water Pollution Abatement, One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement, Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement, Non-residential	1.4 Acres	$ 3,000.00
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature

10 / 01 / 02
Date

TNRCC-0574 (Rev. 6/1/99)

DOC. ID

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

EDWARDS AQUIFER PROTECTION PLAN

APPLICATION FEE SCHEDULE

30 TAC §213.14 (effective 11/14/97) & 30 TAC §213.9 (effective 6/1/99)

WATER POLLUTION ABATEMENT PLANS AND MODIFICATIONS

PROJECT	PROJECT AREA IN ACRES	FEE
One Single Family Residential Dwelling	<5	$500
Multiple Single Family Residential and Parks	<5 5 < 10 10 < 50 ≥50	$1,000 $2,000 $3,000 $5,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 ≥10	$2,000 $3,000 $4,000 $5,000

ORGANIZED SEWAGE COLLECTION SYSTEMS AND MODIFICATIONS

PROJECT	COST PER LINEAR FOOT	MINIMUM FEE MAXIMUM FEE
Sewage Collection Systems	$0.50	$500 - $5,000

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	$500	$500 - $5,000

EXCEPTION REQUESTS

PROJECT	FEE
Exception Request	$250

EXTENSION OF TIME REQUESTS

PROJECT	FEE
Extension of Time Request	$100

TASOS
LIMITED PARTNERSHIP
PO BOX 440010
LAREDO, TX 78044-0010

501

DATE 9/30-02

88-990/1149

Pay to the Order of Texas Natural Resource Conservation Commission $ 3,000

Three Thousand & 00/xx Dollars

IBC Commerce Bank
P.O. Box 1511
Laredo, TX 78040

FOR _____

⑈114909903⑈ 00115282011⑈

TNRCC Core Data Form

TNRCC Use Only

SECTION I: General Information

1. Reason for Submission *Example: new wastewater permit; IHW registration; change in customer information; etc.*

Water Pollution Abatement Plan

2. Attachments

[ ] Yes [x] No

Describe Any Attachments: *(ex: Title V Application, Waste Transporter Application, etc.)*

n/a

3. Customer Reference Number-*if issued*

CN *(9 digits)*

4. Regulated Entity Reference Number-*if issued*

RN(9 digits)

SECTION II: Customer Information

5. Customer Role *(Proposed or Actual)* – As It Relates to the Regulated Entity Listed on This Form

Please check one of the following: [x] Owner [ ] Operator **Owner and Operator**

[ ] Occupational Licensee [ ] Volunteer Cleanup Applicant [ ] Other

TNRCC Use Only ☐ Superfund ☐ PST ☐ Respondent

6. General Customer Information

[ ] New [ ] Change to Customer Information [ ] Change in Regulated

*If "No Change" and Section I is complete, skip to Section III - Regulated Entity Information.

7. Type of Customer: [ ] Individual [X] Sole Proprietorship - D.B.A.PartnershipCorporation

[ ] Federal Government [ ] State Government [ ] County

[ ] Other Government _____ [ ] Other _____

8. Customer Name (If an individual, please print last name first)

TASOS A TEXAS GENERAL PARTNERSHIP

9. Mailing Address:

1202 HALLMARK

City	StateZIPZIP + 4
SAN ANTONIO	**TX 78216**

10. Country Mailing Information *if outside USA*

11. E-Mail Address *if applicable*

armarti@msn.com

12. Telephone Number	**13. Extension or Code**	**14. Fax Number** *if applicable*
(210) 308-0730	n/a	(210) 308-0691

15. Federal Tax ID *(9 digits)*

74-264 7290

16. State Franchise Tax ID Number *if applicable* ***n/a***

17. DUNS Number *if applicable* *(9 digits)* ***n/a***

18. Number of Employees

[x] 0-20 [ ] 21-100 [ ] 101-250 [ ] 251-500 [ ] 501 and higher

19. Independently Owned and Operated?

YES