

MAR 19 2012

COUNTY ENGINEER

P.O. BOX 2205  
BOERNE, TEXAS 78006  
WWW.WESTWARDENV.COM



*Westward Environmental, Inc.*

March 6, 2012

Texas Commission on Environmental Quality  
Region 13 Office  
14250 Judson Road  
San Antonio, TX 78233-4480

Project No. 10173-19

Attn.: Richard Garcia

Subject: **Extension Request II**  
Water Pollution Abatement Plan (EAPP ID No. 1603.01)  
Dean Word Company, Ltd. – CN600124812  
Lonestar Quarry – RN102870367  
Comal County, Texas

RECEIVED TCEQ  
SAN ANTONIO  
REGION  
2012 MAR -8 AM 11:48

Dear Mr. Garcia,

On behalf of Dean Word Company, Ltd., Westward Environmental, Inc. is submitting this **Extension of Time** request for the above referenced Water Pollution Abatement Plan approved on October 13, 2009 for the Lonestar Quarry. A start of construction letter dated November 6, 2009 was submitted to the TCEQ Region 13 office prior to construction activities which started on November 9, 2009 and are on-going at this time. Due to the economic downturn over the past couple of years construction has not progressed as originally planned. This extension is being filed based on the expiration date of October 13, 2011 for the 2 year 10% construction language in the WPAP approval letter. An extension was granted and expires on April 13, 2012.

Westward Environmental, Inc. (WEI) will serve as the technical representative for Dean Word Company, Ltd. on this project. **Please ensure that WEI is copied on all correspondence including but not limited to the final TCEQ determination.** If you have any questions regarding this request, please contact our office.

Respectfully submitted,  
WESTWARD ENVIRONMENTAL, INC.

Gary D. Nicholls, P.E.  
Vice President

Distribution: Addressee (original + 5)  
Mr. Bryan Word, P.E. – Dean Word Company, Ltd.  
WEI 10173-19 file

mb

**Edwards Aquifer Protection Plan Extension Request**

- Extension Request for a Water Pollution Prevention Plan (*TCEQ-10260*)
- ATTACHMENT A - Approval Letter or Extension Approval
- Agent Authorization Form (*TCEQ-0599*), if application submitted by agent
- Application Fee Form (*TCEQ-0574*)
- Check Payable to the "Texas Commission on Environmental Quality"
- Core Data Form (*TCEQ-10400*)

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**Extension Request for an  
Edwards Aquifer Protection Plan**  
Relating to 30 TAC §213.4(g)  
Effective June 1, 1999

1. Regulated Entity information. If requested by an agent, attach the agent authorization form.

Regulated Entity Name: Lonestar Quarry

Customer (Applicant):

Contact Person: Bryan Word, P.E.  
Entity: Dean Word Company, Ltd.  
Mailing Address: P.O. Box 310330  
City, State: New Braunfels, Texas Zip: 78131  
Telephone: 830-606-5000 FAX: 830-606-5008

Agent/Engineer: Westward Environmental, Inc.  
Contact Person: Gary D. Nicholls, P.E.  
Mailing Address: 102 S. Main Street, 2<sup>nd</sup> Floor  
City, State: Boerne, Texas Zip: 78006  
Telephone: 830-249-8284 FAX: 830-249-0221

2.  **ATTACHMENT A - Approval Letter or Extension Approval.** Attach a copy of the last approval letter or the last approved extension.

Date of letter: September 26, 2011 – 1<sup>st</sup> Extension Approval  
Expiration date: April 13, 2012 – 1<sup>st</sup> Extension Expiration

3.  This extension request is submitted not earlier than sixty (60) days prior to the expiration date of an approved Edwards Aquifer protection plan or a previously approved extension.


4.  A completed fee form is attached. The fee for a six-month extension of time is \$150.

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Gary D. Nicholls, P.E.  
Print Name of Customer/Engineer

  
Signature of Customer/Engineer

3/6/12  
Date

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

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

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



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

September 26, 2011

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Mr. Bryan Word  
Dean Word Company, Ltd.  
P.O. Box 310330  
New Braunfels, Texas 78131

Re: Edwards Aquifer Protection Program, Comal County

NAME OF PROJECT: Lonestar Quarry; located approximately 1.2 miles northeast of Schwab Road and FM 482; New Braunfels, Texas

TYPE OF PLAN: Request for Extension of Time to Commence Regulated Activities Authorized by a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program File No. 1603.02, Investigation No. 950680  
Regulated Entity Number: RN102870367

Dear Mr. Word:

On August 17, 2011, the Texas Commission on Environmental Quality (TCEQ) received your request for an extension of time to commence regulated activities related to the above referenced WPAP approval. The request has been reviewed for compliance with 30 TAC §213.4(h) and §213.13 which set forth the procedures for requesting an extension of time to commence regulated activities authorized by the approval and was found to be in general agreement with these procedures. Therefore, the request for an extension to the term of approval for the referenced project is granted. A summary of the dates of approval and expiration is enclosed.

Date of Original Approval:	October 13, 2009
Date of Expiration:	October 13, 2011
Date Extension Request Received	Date of Extension Expiration
August 17, 2011	April 13, 2012

The request and fee were received in compliance with 30 TAC §213.4(h) and §213.13. As indicated in the rules, an extension may not be granted if the proposed regulated activity or

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Mr. Bryan Word  
September 26, 2011  
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approved plan for the regulated activity has changed. As understood, there will be no changes or modifications to the originally approved plan. This request for extension expires on April 13, 2012. Should construction not commence before the end of the six (6) month period, another request for extension would be required to keep the Edwards Aquifer Protection Plan validated.

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

Sincerely,



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

MRV/YD/eg

cc: Mr. Gary Nicholls, P.E., Westward Environmental, Inc.  
Mr. James C. Klein, P.E., City of New Braunfels  
The Honorable Harold D. Baldwin, City of Schertz  
Mr. Tom Hornseth, P.E., Comal County  
Mr. Karl J. Dreher, Edwards Aquifer Authority  
TCEQ Central Records, MC 212

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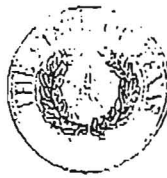
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Bryan W. Shaw, Ph.D., *Chairman*  
 Buddy Garcia, *Commissioner*  
 Carlos Rubinstein, *Commissioner*  
 Mark R. Vickery, P.G., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 13, 2009

Mr. Bryan Word  
 Dean Word Company, Ltd.  
 P.O. Box 310330  
 New Braunfels, TX 78131.

Re: Edwards Aquifer, Comal County  
 NAME OF PROJECT: Lonestar Quarry; Located approximately 1.2 miles northeast of Schwab Rd. and FM 482; 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 ID No. 1603.01; Investigation No. 709676; Regulated Entity No. RN102870367

Dear Mr. Word:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the above-referenced project submitted to the San Antonio Regional Office by Westward Environmental, Inc. on behalf of Dean Word Company, Ltd. on November 14, 2008. Final review of the WPAP was completed after additional material was received on January 5, 2009, January 29, 2009 and February 4, 2009. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

### BACKGROUND

The original WPAP was approved on January 29, 2001 for a quarry project of approximately 270 acres with 3.57 acres of impervious cover. The project included a rock crusher, asphalt plant, office, paved road, scale and scale house. An aboveground storage tank (AST) facility plan was also approved on January 29, 2001 for eleven AST structures placed within two separate containment areas. This proposed project is a new quarry adjacent to the north and south of the previously approved quarry.

### PROJECT DESCRIPTION

The proposed commercial project is a limestone quarry with a total area of approximately 1,923 acres and a proposed quarry pit of approximately 1,576 acres. Setback distance of sixty feet will be maintained

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

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • Internet address: [www.tceq.state.tx.us](http://www.tceq.state.tx.us)

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from the north and west property boundary and sixty feet from the Recharge Zone boundary in the southern portion of the site. Setbacks are not proposed for the eastern boundary since the adjacent site is also a quarry site. No permanent impervious cover is proposed for the new quarry area, however, temporary impervious cover (portable buildings or trailers, movable base pads) is proposed. A rock crusher, screen and conveyers, stockpile areas, wash water ponds, scale house and scales are proposed for the site. Quarrying will occur to an elevation no deeper than 695 feet above mean sea level (a.m.s.l.) in the southern portion of the site and 725 feet a.m.s.l. in the northern portion. Project wastewater will be collected in portable toilets and disposed of by a TCEQ registered waste disposal service.

#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site, the various controls described below will be utilized.

- An earthen berm composed of compacted soil and/or overburden constructed to a height of at least two feet tall with a two foot wide top of berm and stabilized with native grasses. This berm will be inspected weekly and after each rainfall. As the quarry expands, the berm will be relocated, as needed, to divert upgradient stormwater around the site or quarry pit and will capture onsite flows to prevent stormwater from leaving the site.
- Rock berms will be installed on the downgradient side of the initial quarry pit to intercept sediment-laden runoff and serve as a physical barrier of the limits disturbance. The designs of the proposed rock berms are variations from the design in the Edwards Aquifer Technical Guidance Manual (RG-348, 2005). These berms will use open graded three to five inch diameter rocks and be placed perpendicular to the flow line. The berms will be inspected weekly and after each rainfall. Sediment and debris will be removed when the sediment height reaches six inches or clogs the berm.
- A fifty foot natural vegetative buffer area will be maintained downgradient of disturbed areas and along the perimeter of the property except along the eastern boundary of the site.
- Permanent soil stabilization will occur inside and outside the quarry pit for disturbed areas capable of growing vegetation (i.e., soil material present). These areas will be seeded or hydroseeded with native vegetation. For interim soil stabilization, the soil material will either be relocated or BMPs, such as rock berms, will be implemented to limit runoff.
- Geologic feature recognition training will be required for all quarry equipment operators to aid in the recognition of geologic features uncovered during the quarrying process. In addition, a Professional Geoscientist will inspect the quarry at least annually for sensitive features. Sensitive features will be reported to the TCEQ in accordance with 30 TAC 213. Protection measures for sensitive features, within the quarry pit, include sealing the feature or proposing a variety of BMPs (e.g., rock berms) to prevent sediment-laden stormwater from entering the feature.
- Flex base pads, approximately 150 feet by 100 feet with a one foot high berm, will act as secondary containment during maintenance and fueling activities. These base pads can be located both inside and outside the quarry pit. The base pads located inside the quarry pit will only service equipment that is impractical to move outside the pit area.
- Natural buffer areas are proposed for sensitive features until quarrying activities advance near the feature's buffer area. These buffer areas, except the features in Dry Comal Creek, will be fenced in order to provide protection from accidental encroachment and disturbance. The construction fencing will be installed when quarrying activities advance or will advance near the feature in the

Mr. Bryan Word  
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Page 3

upcoming 12 months. When quarrying activities advance to a feature, a temporary seal is proposed for the sensitive feature until the feature is mined out.

- If necessary, mine dewatering will be accomplished in accordance with the Texas Pollutant Discharge Elimination System (TPDES) General Permit TX050000, Sector J. A water pump will remove collected water after sufficient settling time. Before the water is discharged, the water is tested to determine compliance with total suspended solid limitations of 45 mg/L daily maximum value and 25 mg/L daily average value. Rock berms and other erosion controls will be implemented to prevent soil erosion and scour.

A request was made for an exception to the requirement of implementing permanent BMPs at the site upon completion of construction. Based upon the plan review, the management practices described above, that there is no increase in permanent impervious cover and that all onsite stormwater will be retained in the quarry pit, the exception request is approved.

### GEOLOGY

According to the geologic assessment included with the application, the Buda Limestone, Del Rio Clay, Georgetown Formation and Edwards Limestone were all observed by the project geologist at the surface of the site. As detailed by the project geologist, 207 features were recorded in the geologic assessment and 31 features received a sensitive score. The San Antonio Regional Office site assessment conducted on December 18, 2008 revealed the site as described by the geologic assessment. Refer to the Geologic Assessment in the WPAP application for a listing of the sensitive features.

Natural buffers were proposed for the 28 sensitive features until quarrying activities advance near a feature and the feature is sealed and mined out. Buffers were not proposed for the three faults, S-110, S-118 and S-205, due to the length of these features. Construction fencing will be installed to delineate a sensitive feature's natural buffer area when quarrying activities advance to a feature within the upcoming 12 months. Features within Dry Comal Creek will not have the construction fencing since water flows could continually destroy or remove the fencing. To prevent pollutants and sediments from entering a sensitive feature while activities are within close proximity to the feature, the sensitive features will be temporarily sealed with topsoil, overburden, crushed limestone, concrete or flowable fill approximately 90 days before the feature is mined out.

### SPECIAL CONDITIONS

- I. This approval does not authorize the construction or installation of aboveground storage tanks at this site nor does this approval authorize the construction or installation of aboveground storage tanks at the original site if that AST facility plan has expired.
- II. As stated in the WPAP application, a Texas Licensed Professional Geoscientist will conduct at least annual surveys of the pit area looking for geologic feature. Records of the surveys shall be maintained at the site and made available for TCEQ review for the life of the project. Anytime any sensitive feature(s) is discovered, the TCEQ shall be notified and the geologic assessment report submitted in accordance with 30 TAC 213 (refer to Standard Condition 12).
- III. The BMPs proposed in the application and/or described in this approval letter must be operational prior to any soil disturbing activities within a BMP's drainage area.
- IV. Intentional discharges of sediment laden stormwater from regulated activities are not allowed. If dewatering of areas becomes necessary appropriate measures must be taken.



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- V. The exception request from permanent BMPs is approved based upon the discussion in the Permanent Pollution Abatement Measures Section of this letter. The exception request does not approve any impervious cover or other TSS generating activities in which the generated stormwater flows off the site and does not or will not be captured by the quarry pit. As stated by the project engineer during the January 21, 2009 meeting, the applicant understands that a modification is required if the above situation occurs at the site.
- VI. This approval letter is being sent for regulated activities defined in Chapter 213. This approval does not constitute a Water Rights permit. Failure to obtain all necessary authorizations prior to commencing activities near or in Dry Comal Creek or a defined water course could result in enforcement actions. Information regarding the Water Rights Program and permit process, including the possibility that the activities presented in this WPAP may require a Water Rights Permit, was explicitly stated to the applicant and the authorized agents during the January 29, 2009 meeting.
- VII. As stated in §213.8(a)(6), industrial wastewater discharges into or adjacent to waters in the state that could create additional pollutant loading is a prohibited activity on the Edwards Aquifer Recharge zone. Depending on the specifics of the activities at the site, a Texas Pollutant Discharge Elimination System (TPDES) permit or a Texas Land Application Permit (TLAP) and additional BMPs and measures may be required.
- VIII. As stated in the application, additional well data information could result in changes to the quarry depth. Notify the TCEQ San Antonio Regional Office, in writing, of any changes proposed to the depth of the quarry pit. A modification to this approved WPAP may be required.
- IX. Pursuant to 30 TAC §213.4(h)(3) and as stated in the Edwards Aquifer protection plan, this protection plan approval or extension will expire and no extension will be granted if more than 50% of the total construction has not been completed within 10 years from the initial approval of the plan. A new Edwards Aquifer protection plan must be submitted to the TCEQ with the appropriate fees for review and approval by the executive director prior to commencing or continuing any construction or regulated activities beyond 10 years. The Applicant must submit a status report for the project containing information regarding the percentage of the total project construction completed within 180 days prior to the expiration date of this plan approval. If at that time, the total project construction cannot be demonstrated to be at least 50% complete, the Applicant must submit a new Edwards Aquifer protection plan to the TCEQ for review and approval before continuing any construction or regulated activities beyond 10 years from the date of initial approval of the plan.

If a new Edwards Aquifer protection plan is submitted to the TCEQ under 30 TAC § 213.4(h)(3), the approved plan will continue in effect until the executive director makes a determination on the new plan.

#### STANDARD CONDITIONS

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

Mr. Bryan Word  
October 13, 2009  
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Prior to Commencement of Construction:

4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to

Mr. Bryan Word  
October 13, 2009  
Page 6

installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.

12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
13. Four wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
15. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

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

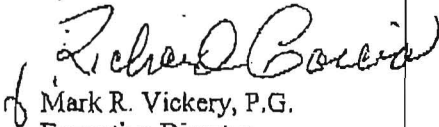
Mr. Bryan Word  
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regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

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

Sincerely,



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

MRV/CEF/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

cc: Mr. Gary Nicholls, P.E., Westward Environmental, Inc.  
Mr. James C. Klein, P.E., City of New Braunfels  
The Honorable Harold D. Baldwin, City of Schertz  
Mr. Tom Hornseth, P.E., Comal County  
Ms. Velma Danielson, Edwards Aquifer Authority  
TCEQ Central Records, Building F, MC212

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

I Bryan Word, P.E.  
Print Name

Partner  
Title - Owner/President/Other

of Dean Word Company, Ltd.  
Corporation/Partnership/Entity Name

have authorized Gary D. Nicholls, P.E.  
Print Name of Agent/Engineer

of Westward Environmental, Inc.  
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For applicants who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

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

Bryan Wood  
Applicant's Signature

3.2.12  
Date

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THE STATE OF Texas §

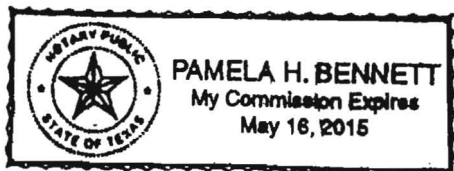
County of Comal §

BEFORE ME, the undersigned authority, on this day personally appeared Bryan Wood 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 2<sup>nd</sup> day of March, 2012.

Pamela Bennett  
NOTARY PUBLIC

Pamela Bennett  
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: May 16, 2015

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

NAME OF PROPOSED REGULATED ENTITY: Lonestar Quarry  
REGULATED ENTITY LOCATION: Comal County, Texas  
NAME OF CUSTOMER: Dean Word Company, Ltd.  
CONTACT PERSON: Bryan Word PHONE: 830-606-5000  
(Please Print)

Customer Reference Number (if issued): CN 600124812 (nine digits)

Regulated Entity Reference Number (if issued): RN 102870367 (nine digits)

Austin Regional Office (3373)  Hays  Travis  Williamson  
San Antonio Regional Office (3362)  Bexar  Comal  Medina  Kinney  Uvalde

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

- Austin Regional Office
- San Antonio Regional Office
- Mailed to TCEQ:  
TCEQ - Cashier  
Revenues Section  
Mail Code 214  
P.O. Box 13088  
Austin, TX 78711-3088
- Overnight Delivery to TCEQ:  
TCEQ - Cashier  
12100 Park 35 Circle  
Building A, 3rd Floor  
Austin, TX 78753  
512/239-0347

Site Location (Check All That Apply):  Recharge Zone  Contributing Zone  Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
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	1 Each	\$150.00

Bryan Word  
Signature

3-2-12  
Date

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

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

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

**Water Pollution Abatement Plans and Modifications  
Contributing Zone Plans and Modifications**

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

**Organized Sewage Collection Systems and Modifications**

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

**Underground and Aboveground Storage Tank System Facility Plans and Modifications**

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

**Exception Requests**

PROJECT	FEE
Exception Request	\$500

**Extension of Time Requests**

PROJECT	FEE
Extension of Time Request	\$150



VENDOR NO.	VENDOR NAME	CHECK NUMBER
1815	Texas Commission On Enviromental Quality	95947

Trans Record	Reference	Date	Description	Gross Amount	Discount	Retainage	Previous	Balance	Net Amount	
212 663	022912	2/29/12	RN102870367 EAPP-WPAP Ext	150.00	0.00	0.00	0.00	0.00	150.00	
				<b>Vendor No.</b>	<b>Gross Amount</b>	<b>Discount</b>	<b>Retainage</b>	<b>Previous</b>	<b>Balance</b>	<b>Net Amount</b>
				1815	150.00	0.00	0.00	0.00	0.00	150.00

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 MAR 19 2012  
 COUNTY ENGINEER

THIS CHECK HAS A COLORED BACKGROUND AND CONTAINS MULTIPLE SECURITY FEATURES - SEE BACK FOR DETAILS



**DEAN WORD COMPANY, LTD.**  
 P.O. BOX 310330  
 NEW BRAUNFELS, TEXAS 78131-0330  
 (830) 625-2365

Frost National Bank  
 San Antonio, Texas

30-9/1140

**CHECK NUMBER**  
 95947

**CHECK DATE**  
 3/02/12

\*\*\*One hundred fifty and xx / 100 Dollars\*\*\*

**AMOUNT**  
**\$150.00**

Texas Commission On Enviromental Quality  
 TCEQ-Cashier/Revenues Section  
 P.O. Box 13088 Mail Code 214  
 Austin, TX 78711-3088



*[Handwritten Signature]*

⑈0000095947⑈ ⑆114000093⑆ 010320587⑈

MAR 19 2012

COUNTY ENGINEER

TCEQ Use Only



# TCEQ Core Data Form

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

## SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other	<b>EAPP - WPAP Extension</b>
2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Extension for approved Water Pollution Abatement Plan	
3. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	4. Regulated Entity Reference Number (if issued)
CN 600124812		RN 102870367

## SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)		
6. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check only one of the following:		
<input type="checkbox"/> Owner	<input type="checkbox"/> Operator	<input checked="" type="checkbox"/> Owner & Operator
<input type="checkbox"/> Occupational Licensee	<input type="checkbox"/> Responsible Party	<input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other: _____
7. General Customer Information		
<input type="checkbox"/> New Customer	<input type="checkbox"/> Update to Customer Information	<input type="checkbox"/> Change in Regulated Entity Ownership
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State)	<input checked="" type="checkbox"/> No Change**	
**If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.		
8. Type of Customer:		
<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	<input type="checkbox"/> Sole Proprietorship- D.B.A
<input type="checkbox"/> City Government	<input type="checkbox"/> County Government	<input type="checkbox"/> Federal Government
<input type="checkbox"/> Other Government	<input type="checkbox"/> General Partnership	<input checked="" type="checkbox"/> Limited Partnership <input type="checkbox"/> Other: _____
9. Customer Legal Name (If an individual, print last name first: ex: Doe, John)		If new Customer, enter previous Customer below
Dean Word Company, Ltd.		End Date:
10. Mailing Address:		
P.O. Box 310330		
City	New Braunfels	State TX ZIP 78131 ZIP + 4 0330
11. Country Mailing Information (if outside USA)		12. E-Mail Address (if applicable)
13. Telephone Number	14. Extension or Code	15. Fax Number (if applicable)
( 830 ) 606-5000		( 830 ) 606-5008
16. Federal Tax ID (9 digits)	17. TX State Franchise Tax ID (11 digits)	18. DUNS Number (if applicable)
	32036399767	
19. TX SOS Filing Number (if applicable)		
20. Number of Employees		21. Independently Owned and Operated?
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input checked="" type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## SECTION III: Regulated Entity Information

22. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)		
<input type="checkbox"/> New Regulated Entity	<input type="checkbox"/> Update to Regulated Entity Name	<input type="checkbox"/> Update to Regulated Entity Information <input checked="" type="checkbox"/> No Change** (See below)
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.		
23. Regulated Entity Name (name of the site where the regulated action is taking place)		
Lonestar Quarry		

MAR 19 2012

COUNTY ENGINEER

24. Street Address of the Regulated Entity: (No P.O. Boxes)								
	City		State		ZIP		ZIP + 4	
25. Mailing Address:	P.O. Box 310330							
	City	New Braunfels	State	TX	ZIP	78131	ZIP + 4	0330
26. E-Mail Address:								
27. Telephone Number	28. Extension or Code			29. Fax Number (if applicable)				
( 830 ) 606-5000				( 830 ) 606-5008				
30. Primary SIC Code (4 digits)	31. Secondary SIC Code (4 digits)	32. Primary NAICS Code (5 or 6 digits)		33. Secondary NAICS Code (5 or 6 digits)				
1422		212312						
34. What is the Primary Business of this entity? (Please do not repeat the SIC or NAICS description.)								
Construction								

Questions 34 - 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location:	From San Antonio, take IH-35 North. Exit Schwab Rd. (Exit 180) and go left. Road will "T" into FM 482. Go right for about 1.2 miles. Site is accessed through an easement on another company's property. Please call Westward Environmental for access to the site.							
36. Nearest City	County			State		Nearest ZIP Code		
Schertz	Comal			TX		78132		
37. Latitude (N) In Decimal:	29.6633			38. Longitude (W) In Decimal:	98.2125			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29	39	48	98	12	45			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Industrial Hazardous Waste	<input type="checkbox"/> Municipal Solid Waste
<input type="checkbox"/> New Source Review - Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS	<input type="checkbox"/> Sludge
<input type="checkbox"/> Stormwater	<input type="checkbox"/> Title V - Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Utilities
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

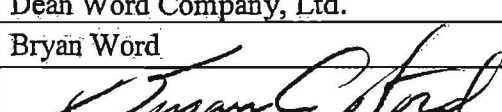
**SECTION IV: Preparer Information**

40. Name:	Matt Bellos	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 830 ) 249-8284		( 830 ) 249-0221	mbellos@westwardenv.com

**SECTION V: Authorized Signature**

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

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

Company:	Dean Word Company, Ltd.	Job Title:	Partner
Name (In Print):	Bryan Word	Phone:	( 830 ) 606-5000
Signature:		Date:	3.2.12



Westward Environmental, Inc.

RECEIVED

NOV 21 2000

COUNTY ENGINEER

P.O. Box 2205  
BOERNE, TEXAS  
78006

November 14, 2000

TNRCC  
Corres.

Texas Natural Resource Conservation Commission  
Region 13 Office  
14250 Judson Road  
San Antonio, Texas 78233-4480

Project # 10173-02

Attn.: Mr. Richard Garcia

Subject: **Water Pollution Abatement Plan Application**  
**Dean Word Company, Ltd.** – Lonestar Quarry  
Comal County, Texas

RECEIVED - TNRCC  
NOV 15 PM 2:50  
SAN ANTONIO REGION

Dear Mr. Garcia,

Please find attached the original application and three copies of the Dean word Company, Ltd. Lonestar Quarry Water Pollution Abatement Plan and Geologic Assessment. This WPAP has been prepared in accordance with the Texas Natural Resource Conservation Commission (30 TAC 213) and current policies for construction in the Edwards Aquifer Recharge Zone.

Dean Word Company proposes to construct a limestone quarry, asphalt plant, office, paved road, and scale and scalehouse at the Lonestar site. The entry road to the quarry is located on the west side of FM 482 approximately 3.5 miles south of the intersection of FM 482 and Loop 337 in Comal County. The proposed project will be located within the Edwards Aquifer Recharge Zone. The total area of the project site is approximately 270 acres, 185 acres of the site is proposed to be excavated for the quarry pit..

Temporary pollution abatement measures will include rock berms, earthen berms, silt fence, and the existing quarry pit. Rock berms will be installed where the drainage channels leave the site. When clearing is performed, the topsoil will be placed down gradient of the cleared area in the form of an earthen berm that will retain runoff water from the cleared area. The quarry pit will act as a pollution abatement device, which will retain upgradient and on-site storm water.

In addition to the construction proposed herein, Word Company intends to construct two steel reinforced concrete containments to store static hydrocarbons on the site. A separate submittal is being made in conjunction with this project for the AST Facility Plan Application.

Dean Word Company, Ltd.  
Lonestar Quarry WPAP

Proj. No.: 10173-02  
11/14/00  
Page 2

If you have any questions regarding this application, please call our office at (210) 698-2432.

Respectfully submitted,

WESTWARD ENVIRONMENTAL, INC.



Gary Nicholls  
Senior Engineer, P.E.

Distribution:            Addressee (3 + original – hand delivered)  
                                 Mr. Bryan Word (2)  
                                 10173-02 file

Attachments

**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

PROJECT NAME: Dean Word Company, Ltd. – Lonestar Quarry

COUNTY: Comal County

STREAM BASIN: Comal Creek

EDWARDS AQUIFER:     RECHARGE ZONE  
                           TRANSITION ZONE

PLAN TYPE:             WPAP                     AST                     EXCEPTION  
                           SCS                       UST                     MODIFICATION

**APPLICANT INFORMATION**

1.    Applicant:            Dean Word Company, Ltd.  
  
      Contact Persons:    Bryan Word, P.E.  
      Entity:                Dean Word Company, Ltd.  
      Mailing Address:    P.O. Box 310330  
      City, State:         New Braunfels, Texas            Zip: 78131-0330  
      Telephone:         830 606-5000                    FAX: 830 606-5008

2.    Agent/Representative (If any):  
  
      Contact Person:    Gary Nicholls, P.E.  
      Entity:                Westward Environmental, Inc.  
      Mailing Address:    P.O. Box 2205  
      City, State:         Boerne, Texas                    Zip: 78006  
      Telephone:         210 698-2432                    FAX: 210 698-2496

**PROJECT LOCATION**

3.    Site Address:         6025 FM 482  
      Street:                FM 482  
      City:                    New Braunfels                    Zip: 78130

4.     This project is inside the city limits of \_\_\_\_\_.  
       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.

5. 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 site is west of FM 482, 3.5 miles southwest of the intersection of FM 482 and Loop 337.

6.  X  **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.
7.  X  **ATTACHMENT B - USGS / EDWARDS RECHARGE ZONE MAP.** A copy of the official 7 1/2 minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached behind this sheet. The map(s) should clearly show:
- X  Project site.
  - X  USGS Quadrangle Name(s).
  - X  Boundaries of the Recharge Zone (and Transition Zone, if applicable).
  - X  Drainage path from the project to the boundary of the Recharge Zone.
8.  X  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.**
9.  X  **ATTACHMENT C - PROJECT DESCRIPTION.** Attached at the end of this form is a detailed narrative description of the proposed project.
10. Existing project site conditions are noted below:
- Existing commercial site
  - X  Existing industrial site
  - Existing residential site
  - X  Existing paved and/or unpaved roads
  - X  Undeveloped (Cleared)
  - X  Undeveloped (Undisturbed/Uncleared)
  - Other:

**PROHIBITED ACTIVITIES**

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

standards which are defined in §330.41 (b), (c), and (d) of this title.


**ADMINISTRATIVE INFORMATION**

13. 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.
14. 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)
15.  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.
16.  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:

Gary Nicholls

Print Name of Applicant/Owner/Engineer

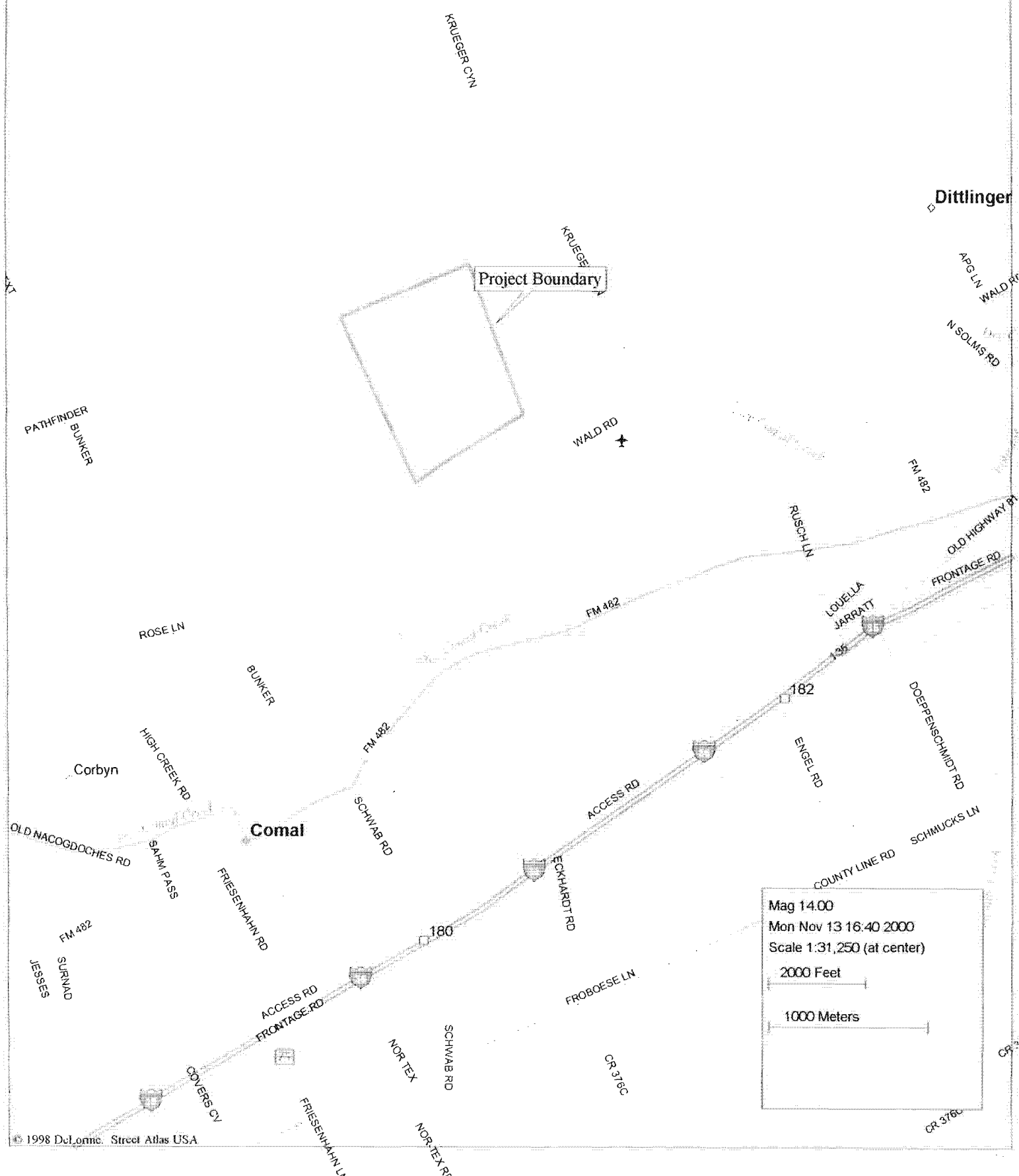


Signature of Applicant/Owner/Engineer

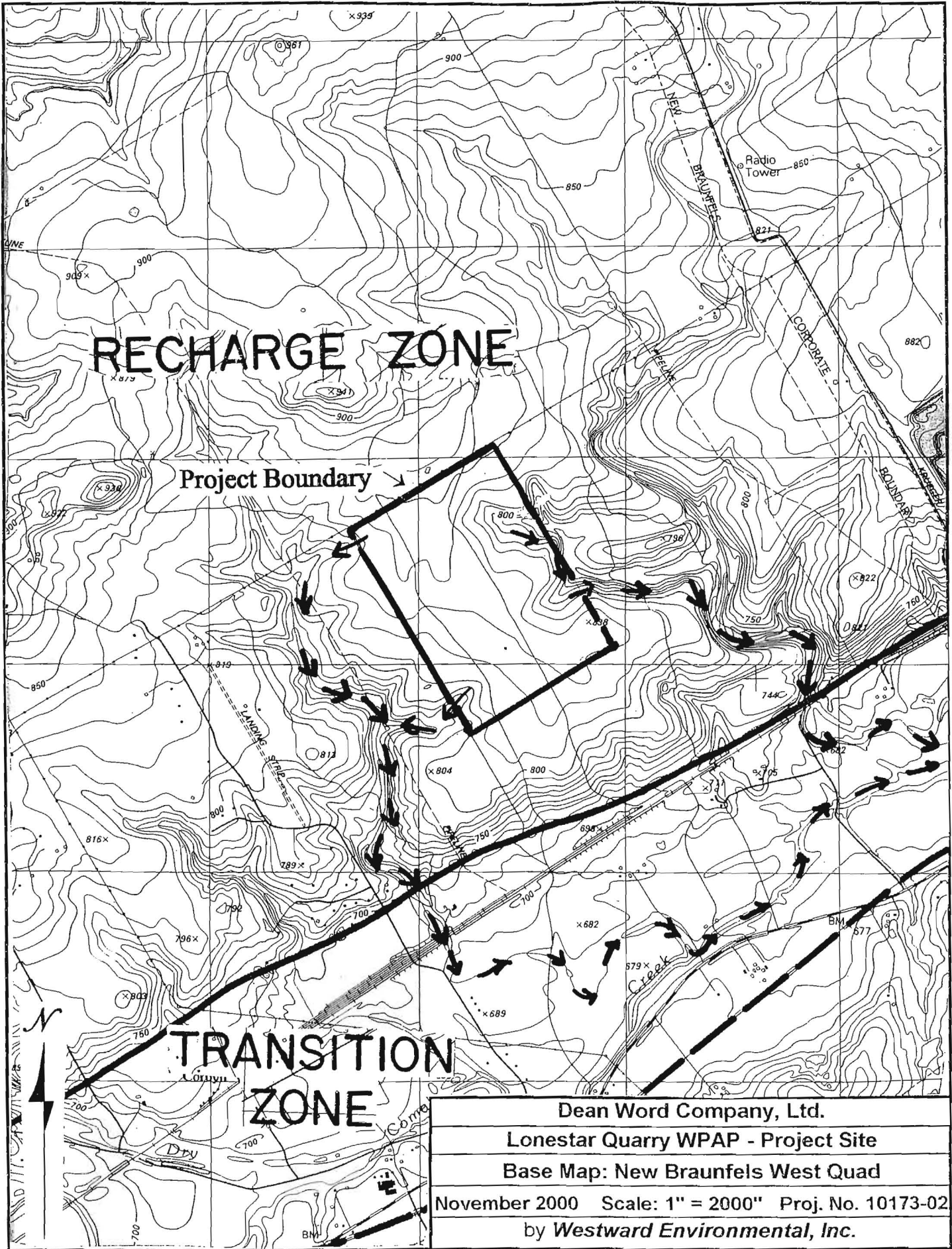
11/14/00  
Date



# Dean Word Company, Ltd.



Mag 14.00  
Mon Nov 13 16:40 2000  
Scale 1:31,250 (at center)  
2000 Feet  
1000 Meters



**RECHARGE ZONE**

**Project Boundary**

**TRANSITION ZONE**

Dean Word Company, Ltd.  
Lonestar Quarry WPAP - Project Site  
Base Map: New Braunfels West Quad  
November 2000 Scale: 1" = 2000" Proj. No. 10173-02  
by Westward Environmental, Inc.

Dean Word Company, Ltd.  
Lonestar Quarry

Project Description

The proposed Lonestar Quarry project consists of the construction of a limestone quarry pit of approximately 185 acres, an asphalt batch plant facility, a paved entry road, an office, and a scale and scalehouse. Please see the attached Geologic, Site and Drainage Map. The project site encompasses a total of approximately 270 acres of mostly hilltop area and is located on the Edwards Aquifer Recharge Zone. There are no upgradient drainage channels that flow onto the project site. Also proposed is construction of two concrete containments for storage of static hydrocarbons for use at the asphalt batch plant and for mobile equipment. An AST Facility Application has been prepared for submittal to the TNRCC San Antonio Regional Office - EAPP in conjunction with this WPAP application.

Construction of the asphalt batch plant and secondary crushing plant and stockpile areas will commence upon approval of the WPAP and AST Facility Plan. These plants will be located upgradient from the existing limestone quarry pit at the site. Our calculations indicate that the existing quarry pit is large enough to retain runoff from these plant sites, and its entire upgradient area, for rainfall events in excess of the 2-year, 24-hour storm. Therefore, the existing quarry pit will be utilized in conjunction with silt fences and rock berms as the temporary (construction) BMPs. As the project expands and the quarry pit is enlarged, the pit will continue to contain onsite and upgradient stormwater runoff, thereby virtually eliminating the potential for pollution of surface streams and the Edwards Aquifer.

Prior to the start of construction of the secondary crushing plant, asphalt plant or expansion of the existing quarry pit, rock berms will be constructed at the outflow area of the pit and in the drainage channel at the downgradient edge of the site. Likewise, when construction of the pit is to expand to other drainage areas, rock berms will be constructed therein prior to clearing in each channel. (See attached Geologic, Site and Drainage Map for proposed BMP locations.) Then clearing of vegetation and topsoil upgradient will commence. The topsoil will be cleared to create an earthen berm downgradient from the area being cleared. This berm will retain stormwater runoff from the cleared area and prevent it from contacting any surface stream. Relatively small portions of the site will be cleared as quarrying progresses, always maintaining an earthen berm downgradient of the cleared area. As portions of the quarry are excavated, the bottom of the pit will be graded to maintain a minimum slope of 3% toward the highwall in order to retain onsite and upgradient stormwater runoff. In its final configuration, the quarry pit will be excavated to a depth on the order of 100 feet below the lowest adjacent natural grade. This configuration will be adequate to retain stormwater runoff for the largest of storm events.

It is anticipated that one to two feet of fill will be required to level the asphalt batch plant site. Prior to the start of fill placement in this area and prior to construction of the office, asphalt plant containment, scale and scalehouse, and mobile equipment fuel containment, silt fences will be

constructed downgradient of the construction areas to filter stormwater runoff. The stormwater will then flow over the undisturbed vegetated area downgradient. Stormwater runoff from the secondary crushing plant and stockpile areas will flow into the existing quarry pit and be retained therein. Under extreme rainfall conditions, the quarry pit may overflow and the runoff will flow through a rock berm at the edge of the pit, down the existing cobble filled drainage channel, and through another rock berm prior to leaving the site.

The existing entry road is comprised of aggregate base placed and compacted over native ground. No additional clearing or other ground disturbance will be required in order to construct the proposed paved access road. Finish paving will take place directly over the existing base road, thereby *reducing* the potential for erosion and sedimentation from the site by essentially stabilizing the existing base road.

**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: Dean Word Company, Ltd. - Lonestar Quarry

TYPE OF PROJECT:  WPAP  AST  SCS  UST

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

PROJECT INFORMATION

1.  Geologic or manmade features are described and evaluated using the attached **GEOLOGIC ASSESSMENT TABLE**.
2. Soil cover on the project site is 0 - 5 feet thick. In general, the soil present appears to have the ability to:
  - transmit fluid flow to the subsurface.
  - impede fluid flow to the subsurface.
3.  **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.  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.  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.  Appropriate **SITE GEOLOGIC MAP(S)** are attached:
 

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

Applicant's Site Plan Scale	1" = <u>200</u> '
Site Geologic Map Scale	1" = <u>200</u> '
7. Method of collecting positional data:
  - Global Positioning System (GPS) technology.
  - Other method(s).
8.  The project site is shown and labeled on the Site Geologic Map.
9.  Surface geologic units are shown and labeled on the Site Geologic Map.

10. X Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.  
 \_\_\_ Geologic or manmade features were not discovered on the project site during the field investigation.
11. X The Recharge Zone boundary is shown and labeled, if appropriate.
12. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.):  
X There are 4 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)  
 \_\_\_ The wells are not in use and have been properly abandoned.  
X The wells are not in use and will be properly abandoned.  
X The wells are in use and comply with 16 TAC §76.  
 \_\_\_ There are no wells or test holes of any kind known to exist on the project site.

ADMINISTRATIVE INFORMATION

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

Date(s) Geologic Assessment was performed: 10/31/00, 11/01-11/02/00, 11/10/00  
 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.

Tommy Mathews  
 Print Name of Geologist

210 698-2432  
 Telephone

210 698-2496  
 Fax

Tommy Mathews  
 Signature of Geologist

11-13-00  
 Date

Representing: Westward Environmental, Inc.  
 (Name of Company)







Dean Word, Ltd. - Lone Star Quarry Geologic Strat Column

Hydrogeologic Subdivision		Group, formation, or member			Hydrologic Function	Thickness (feet)	Lithology	Field ID	Cavern Development	Porosity/permeability type
	I	Georgetown Formation			Karst AQ; not Karst CU	2 - 20	Reddish brown, gray to light tan marly limestone	Marker fossil; <i>Waconella Wacoensis</i>	None	Low porosity/low permeability
	II	EDWARDS AQUIFER	EDWARDS GROUP	PERSON	Cyclic and marine members undivided	AQ	80-90	Mudstone to packstone; miliolid grainstone; chert	Thin graded cycles; massive beds to relatively thin beds; crossbeds	Many subsurface; might be associated with earlier karst development

**Comments:**

- S-1 Vuggy Rock - vugs not interconnected
- S-3 Cave. The cave extends approximately 15 feet and has a soil floor.
- S-4 Man made open bore hole
- S-5 Man made open bore hole
- S-6 Man made open bore hole
- S-7 Man made quarry excavation
- S-8 Man made new water well
- S-10 Man made soil excavation
- S-11 Man made soil excavation
- S-13 Man made stock tank
- S-14 Vuggy Rock - vugs not interconnected
- S-15 Man made soil excavation
- S-16 Sinkhole with rock sides
- S-21 Vuggy Rock - vugs not interconnected
- S-22 Vuggy Rock - vugs not interconnected
- S-25 Vuggy Rock - vugs not interconnected

# Lonestar Quarry

## Soils Narrative

There are two soil groups at the Lone Star Quarry site. The first soil group is the Eckrant-Rock outcrop complex, steep. It ranges in thickness from 0-5 feet. The majority of the soil is very clayey, shallow, and has a high percentage by volume of cobbles and stones. In the thicker areas it appears to have the ability to impede the movements of fluids to the subsurface.

The second soil group is the Rumble-Comfort association, undulating. It also ranges in thickness from 0-5 feet. The majority of the soil is very clayey, shallow, and developed over hard fractured limestone. This soil group also has a high percentage by volume of cobbles and stones. It is the predominant soil group on the Recharge Zone portion of this site.

Soil Abbreviation	Soil Name	Permeability	Available Water Capacity
ErG	Eckrant-Rock outcrop complex , steep	Slow to Moderately Slow	Very Low
RUD	Rumble-Comfort association, undulating	Moderately Slow to Slow	Very Low

*Soil Units on this property have the ability to impede fluid movement to the subsurface.*

Source: Batte, Charles D. Soil Survey of Comal and Hays Counties, Texas. United States Department of Agriculture, Soil Conservation Service. Issued June 1984.

## **Geologic Narrative:**

The site consists of 270 acres located southwest of New Braunfels, Texas and is known as the Dean Word Company, Ltd. - Lone Star Quarry. There is an existing small quarry and partially constructed aggregate operation at the site. The site is located entirely in the upper Edwards Group (Kep), the Cyclic and Marine members in particular. A small portion of the northern part of the site outcrops in the Georgetown formation. Index fossils (Waconella wacoensis) for the Georgetown were found in this area. Erosional remnants of Del Rio Clay and Ilymatogyra arietina fossils were also found. No actual outcrops of Del Rio were found. The estimated contact between the Kgt and the Kep is shown on the geologic map. The Comal Springs Fault is located ½ mile south of the site. This fault has a trend of N 60 E and is considered the dominant fault trend for the area.

An inferred fault was found in a search of the geologic literature<sup>1</sup>. It is shown on the geologic map but it is not given a feature number because the fault could not be verified or identified in the field. The majority of the site is covered by a layer of soil estimated to be up to 5 feet thick. This soil is discussed in the soils narrative and it appears to have the ability to impede fluid flow to the subsurface.

There were 25 geologic features found during the field work. Nine of these features are man made. Fourteen of the features rank as possible sensitivity and four of the features rank as sensitive. None of the features rank as having a high potential recharge. This is due to the topographic location of the features.

Features S-4 (MM), S-5 (MM) and S-6 (MM) are open bore holes. S-4 is very deep and could be an old water well. S-5 and S-6 are old open exploration bore holes. Each of these is unplugged and provides a conduit for the movement of fluids to the subsurface and is therefore ranked as sensitive. The landowner

Feature S-7 (MM) is a small quarry excavation at the site. This excavation is approximately 80' x 120' x 25' deep. It has clay filled seams in the exposed rock faces. The excavation is currently used as the location of a primary crusher and feed hopper. Feature S-8 (MM) is an existing water well. The well is cased and the concrete sanitary seal and pad appear to be in good condition. Features S-7 and S-8 are ranked as moderate sensitivity. Feature S-7 ranks as having moderate potential recharge due to up gradient drainage (<50 acres).

The remaining man made (MM) features are S-10, S-11, S-13 and S-15. These are excavations of varying size. S-10, S-11 and S-15 appear to be dug using a front end loader. The reason for the excavation is unknown. Each of these features has a soil bottom. All of these features have moderate infiltration rates and possible sensitivity and none/low potential recharge. S-13 is a rock bottom stock tank located in the Kgt, near the Kgt/Kep contact. This

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<sup>1</sup>Map Showing the Hydrogeologic Subdivisions of the Edwards Aquifer Outcrop, Comal County, Texas by Ted A. Small and John A. Hanson, 1994

rock bottom tank appears to hold water on a consistent basis.

Five (5) vuggy rock outcrops were identified in the field work. These are features S-1, 14, 21, 22 and 25. Feature S-1 ranks as not sensitive with moderate potential recharge. All of the other vuggy rock outcrops rank as not sensitive with none/low potential recharge.

A small cave (S-3) was found at the site. The cave was filled with some rock debris and soil. Hand removal of these materials exposed a small cave opening which appeared to extend approximately 15 feet. The cave was not entered or mapped further.

The remaining features at the site consist of sinkholes, fractured rock outcrops and a few solution cavities. Four of these features, S-2, 9, 12 and 24 have orientations which are considered to be dominant.

Features S-16, 19 and 23 all have an interesting East - West orientation.

Dean Word Company, Ltd.  
Lonestar Quarry

Geologic Assessment Attachment - Feature Position List

S1	N	13793605	S16	N	13792463
	E	2215525		E	2215177
S2	N	13793434	S17	N	13791429
	E	2215656		E	2215558
S3	N	13792331	S18	N	13791430
	E	2215633		E	2215558
S4	N	13792345	S19	N	13791045
	E	2215975		E	2216066
S5	N	13792679	S20	N	13790737
	E	2216372		E	2216332
S6	N	13792338	S21	N	13790543
	E	2216772		E	2215213
S7	N	13792269	S22	N	13790151
	E	2216660		E	2215364
S8	N	13792033	S23	N	13792532
	E	2217139		E	2214353
S9	N	13791800	S24	N	13792544
	E	2217000		E	2214235
S10	N	13791616	S25	N	13793585
	E	2217152		E	2213346
S11	N	13791583			
	E	2217179			
S12	# NOT USED				
S13	N	13794168			
	E	2214623			
S14	N	13794316			
	E	2214874			
S15	N	13794201			
	E	2215010			

**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**

PROJECT NAME: Dean Word Company, Ltd. - Lonestar Quarry

**PROJECT 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): ~270 Acres

3. Projected population: 0

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	3000	÷ 43,560 =	0.07
Parking	0	÷ 43,560 =	0
Other paved surfaces	151,590	÷ 43,560 =	3.5
Total Impervious Cover		÷ 43,560 =	3.57
Total Impervious Cover ÷ Total Acreage x 100 =			1.3 %

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.  
 $L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

10. Length of pavement area: \_\_\_\_\_ feet.  
 Width of pavement area: \_\_\_\_\_ feet.  
 $L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$   
 Pavement area \_\_\_\_\_ acres  $\div$  R.O.W. area \_\_\_\_\_ acres  $\times 100 = \text{_____ \%}$  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:

- % Domestic \_\_\_\_\_ gallons/day
- % Industrial \_\_\_\_\_ gallons/day
- % Commingled \_\_\_\_\_ gallons/day

TOTAL  gallons/day

15. Wastewater will be disposed of by:

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

**ATTACHMENT C - Suitability Letter from Authorized Agent.** An on-site sewage facility will be used to treat and dispose of the wastewater. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.

Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or



registered sanitarian and installed by a licensed installer in compliance with 30 TAC §285.

N/A Sewage Collection System (Sewer Lines):

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

The sewage collection system will convey the wastewater to the \_\_\_\_\_  
(name) Treatment Plant. The treatment facility is :

- existing.
- proposed.

16. N/A All private service laterals will be inspected as required in 30 TAC 213.5.

#### SITE PLAN REQUIREMENTS

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

17. The Site Plan must have a minimum scale of 1" = 400'.  
Site Plan Scale: 1" = 200'.

18. 100-year floodplain boundaries  
 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):

FIRM Map Panel 485463 01000 C, dated July 17, 1995

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.  
**Finish contours for the quarry are not known at this time.**

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):  
 There are 4 (#) 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.  N/A 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:

Gary Nicholls  
 Print Name of Applicant/Owner/Engineer

  
 Signature of Applicant/Owner/Engineer

11/18/00  
 Date

Dean Word Company, Ltd.  
Lonestar Quarry

WPAP Attachment A

Factors Affecting Water Quality

The major factor that could potentially affect water quality is sediment in stormwater runoff after the clearing of vegetation. Other, more remote factors include fuels and lubricants from vehicles and equipment, and trash.

Earthen berms downgradient of the disturbed areas are proposed to capture sediment and control the flow of stormwater. Rock berms will also be constructed in the major drainage paths that exit the site. Any spills or leaks will be cleaned up in a timely manner and properly disposed of. A trash receptacle will be placed onsite for use by employees and visitors. Normal vehicle maintenance for on-site vehicles and heavy equipment will be performed on a covered, curbed concrete pad located adjacent to the mobile equipment containment. On-road product trucks will continue to be serviced at Word Company's facility in New Braunfels.

WPAP Attachment B

Volume and Character of Stormwater

The proposed project will have approximately 3.5 acres of impervious cover on the 270-acre site. The volume of stormwater runoff from the site will be reduced because the quarry pit will retain onsite and upgradient stormwater runoff. The stormwater from cleared areas will carry an increased level of TSS, however the downgradient earthen berm will intercept and retain this stormwater flow. Downgradient from the earthen berm are rock berms, which will filter stormwater flows prior to leaving the site.

It is expected that stormwater leaving this project site will be reduced in terms of volume and essentially the same in terms of character as prior to the proposed project.

A runoff coefficient of 0.1, which equates to between 15 and 20% impervious cover, is conservatively estimated for the site. The existing quarry pit onsite will be used as a sedimentation basin during construction of the secondary crushing plant and stockpile area upgradient. As the project continues, the quarry pit will be enlarged and will therefore hold more upgradient and onsite stormwater.

**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**

PROJECT NAME: Dean Word Company, Ltd. - Lonestar Quarry

**POTENTIAL SOURCES OF CONTAMINATION**

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

1. Fuels for construction equipment and hazardous substances which will be used during construction:
  - Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.
  - Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
  - Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An **Aboveground Storage Tank Facility Plan** application must be submitted to the appropriate regional office of the 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.
  - There 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: Comal Creek

**TEMPORARY BEST MANAGEMENT PRACTICES (TBMPs)**

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

7.   X   **ATTACHMENT D - Temporary Best Management Practices and Measures.** A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- X   TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information has been provided in the attachment at the end of this form
- a. A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
  - b. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
  - c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
  - d. A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, 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.
- X   There will be no temporary sealing of naturally-occurring sensitive features on the site.
9.   X   **ATTACHMENT F - Structural Practices.** Describe the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site. Placement of structural practices in floodplains has been avoided.

10. X **ATTACHMENT G - Drainage Area Map.** A drainage area map is provided at the end of this form to support the following requirements.
- For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
  - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
  - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
  - X There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.
11. X **ATTACHMENT H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure has been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are provided as at the end of this form.
12. X **ATTACHMENT I - Inspection and Maintenance for BMPs.** A plan for the inspection of temporary BMPs and measures and for their timely maintenance, 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. X 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. X If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. X Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. X Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

**SOIL STABILIZATION PRACTICES**

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

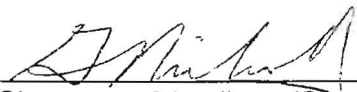
- 17. N/A **ATTACHMENT J - Schedule of Interim and Permanent Soil Stabilization Practices.**  
A schedule of the interim and permanent soil stabilization practices for the site is attached at the end of this form. **Due to the use of other BMPs, interim soil stabilization practices are not considered necessary.**
- 18. X Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. X Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

**ADMINISTRATIVE INFORMATION**

- 20. X All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. X If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate 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. X Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

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

Gary Nicholls  
Print Name of Applicant/Owner/Engineer

  
Signature of Applicant/Owner/Engineer

11/14/00  
Date

Dean Word Company, Ltd.  
Lonestar Quarry

Temporary Stormwater Section Attachment A

Spill Response Actions

The Dean Word Company, Ltd. Lonestar Quarry will have an SPCC Plan which will detail the steps to be taken to prevent spills, among many other subjects regarding spill prevention, employee training and response to spills or leaks.

Among the actions to be taken in the event of a spill or leak are the following:

- Determine the cause of the spill or leak and stop it if possible.
- Initiate spill containment action with the required and appropriate manpower, equipment and materials in accordance with the SPCC Plan.
- Identify and downgrade fire, explosion and vapor hazards.
- Insure that there is no smoking in the spill area.
- If likelihood of a fire or explosion exists, notify the fire department, evacuate all personnel to a safe location and secure the area.
- Visually inspect all spills or exposed areas and prevent further migration of the spill.
- Initiate cleanup and removal operations in accordance with the SPCC Plan and state and federal guidelines.
- Remedy all hazards posed by the contaminated soils and the excavated area.

Temporary Stormwater Section Attachment B

Potential Sources of Contamination

Potential sources of contamination in the project area are the soil, fuels and lubricants from vehicles and equipment, and trash.

Temporary Stormwater Section Attachment C & D

Sequence of Major Activities and TBMPs

As mentioned in the Project Description, an existing quarry pit onsite is approximately 160 feet long by 75 feet wide and 0 to 5 feet deep. Our calculations indicate (see Temporary Stormwater Section Attachment H) that this pit has a volume of approximately 21,250 ft<sup>3</sup>. This volume is adequate to retain projected runoff from a storm event of 3 to 4 inches in the upgradient area. Therefore, this pit will be used as a TBMP for the construction in the



upgradient area, which consists of the secondary crushing plant and stockpile area. Prior to clearing or construction in this area, rock berms will be built at the outflow of the pit and downgradient where any runoff would leave the site, as shown on the Geologic, Site and Drainage Map.

Silt fencing will be used as the TBMP for the construction of the asphalt plant site, office, containments, and scale and scale house. Minimal runoff is expected from these construction areas due to the near-level conditions. See the Geologic, Site and Drainage Map for the proposed location of the silt fencing.

The TBMP for expansion of the existing quarry pit will be earthen berms, constructed across the downgradient portions of cleared areas to prevent stormwater runoff from leaving the cleared areas. These earthen berms will be approximately five feet in height above the adjacent grade. In addition, the interim quarry floors will be excavated with a minimum of 3% of fall away from the earthen berms in order to allow the quarry pit to retain onsite and upgradient runoff. Rock berms will also be constructed across the main drainage channels where stormwater runoff leaves the site. These rock berms will be constructed in each drainage channel prior to the start of clearing upgradient. After portions of the quarry have been excavated, upgradient and on-site stormwater will be retained in the quarry.

## Temporary Stormwater Section Attachment F

### Structural Practices

Initially Rock Berms will be installed in the drainage channels where runoff water leaves the site. This will be done for each drainage channel prior to clearing upgradient. When clearing is performed, the topsoil will be placed downgradient of the cleared area in the form of an earthen berm that will retain runoff water from the cleared area. After mining in the cleared area is completed, another area will be cleared, constructing a berm in the same manner. The upgradient and on-site stormwater that flows into the pit will be retained therein.

Temporary Stormwater Section Attachment H

Temporary Sediment Pond Calculations

I. Calculate Volume of Existing Pit (pond):

$$V \text{ (total pit volume)} = V1 + V2$$

$$V1 = A1 \times L1; L1 = 40' \text{ (for 160' long portion of pond)}$$

$$A1 = 0.5 \times 160' \times 5' \text{ deep} = 400 \text{ ft}^2$$

$$V1 = 400 \text{ ft}^2 \times 40' = 16,000 \text{ ft}^3$$

$$V2 = A2 \times L2; L2 = 35' \text{ (for 75' long portion of pond)}$$

$$A2 = 0.5 \times 75' \times 4' \text{ deep} = 150 \text{ ft}^2$$

$$V2 = 150 \text{ ft}^2 \times 35' = 5250 \text{ ft}^3$$

$$V = 16,000 \text{ ft}^3 + 5250 \text{ ft}^3 = 21,250 \text{ ft}^3$$

II. Calculate recommended basin volume (per TNRCC TGM Section 1.4.14)

Design Storm – Comal County (per TNRCC TGM Table 1.6) is 3.8".

Possible disturbed area in basin watershed is 10 acres.

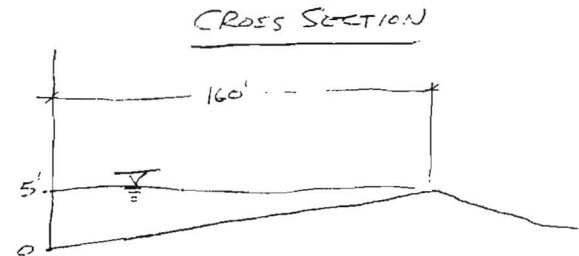
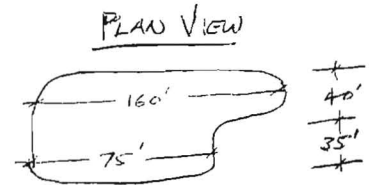
Basin should have capacity to store runoff from 3.8" of rainfall over possible disturbed area. Conservatively use  $R_v = 0.10$  (equates to >15% impervious cover, we have no impervious cover).

$$\text{Runoff} = R_v \times \text{rainfall} = 0.10 \times 3.8'' = 0.38'' \text{ per acre;}$$

$$\text{Therefore, basin must have volume of } 10 \text{ ac} \times \frac{43560 \text{ ft}^2}{1 \text{ ac}} \times 0.38'' \times \frac{1 \text{ ft}}{12''} = 13,794 \text{ ft}^3$$

$$\text{Adding 20\% for sediment load, } 13,794 \text{ ft}^3 \times 1.2 = 16,553 \text{ ft}^3$$

Therefore, our basin is of adequate size at 21,250 ft<sup>3</sup>.



## Temporary Stormwater Section Attachment I

### Inspection and Maintenance for BMPs

The rock and earthen berms and silt fences should be inspected weekly or after each rainfall of 1 inch or more. Written documentation of these inspections should be kept during the course of construction at the project site. (See example Inspection Form on the next page.) If the rock berm is no longer able to properly filter the sediment from the stormwater due to contamination from silt, it should be replaced. Silt fences should be cleaned when 6 inches of sediment becomes trapped. Silt fences should be inspected to ensure that water does not flow under or around the fence. If necessary, the silt fence should be extended or otherwise reconstructed to mitigate these inadequacies.

## Temporary Stormwater Section Attachment J

### Schedule of Soil Stabilization Practices

Interim soil stabilization practices are not considered to be necessary for the site due to the use of other temporary BMPs. Earthen berms will retain runoff from cleared areas and rock berms will act as a secondary measure to protect against sediment transfer to off-site areas. After excavation of a portion of the quarry, upgradient and on-site stormwater will be retained in the quarry pit.

Dean Word Company, Ltd.  
*Inspection Report Form*

Silt Fence and Rock Berm Inspections

Date	Inspected By	Silt Fence			Rock Berms	
		>6" silt retained	water flowing under silt fence	fencing material torn or clogged	>6" silt retained	rock berm clogged

If the answer to any of the above questions is "yes", perform maintenance/repair/replacement as described below or in accordance with TNRCC Technical Guidance on BMPs.

Silt Fence

- \* >6" of silt retained behind fence - remove silt, place in protected area
- \* water flow under silt fence - bury bottom of fencing material on upgradient side. If problem continues to occur, place clean rock on both sides of the fence in affected areas.
- \* silt fencing torn or clogged - replace fencing material as needed if torn or water flow is stopped.

Rock Berms

- \* >6" of silt retained behind rock berm - remove silt, place in protected area
- \* rock berm clogged - remove rock berm, place in protected area, replace with new rock berm.

**PERMANENT STORMWATER SECTION**  
FOR REGULATED ACTIVITIES  
ON THE EDWARDS AQUIFER RECHARGE ZONE  
AND RELATING TO 30 TAC §213.5(b)(4)(C), (D)(ii), (E), and (5), EFFECTIVE JUNE 1, 1999

PROJECT NAME: Dean Word Company, Ltd. - Lonestar Quarry

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

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

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

     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

     The Permanent BMP for the site will be the quarry pit itself. The size of the pit will be sufficient to contain onsite and upgradient stormwater runoff from any expected storm event.

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

4. X Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

     This site will be used for low density single-family residential development and has 20% or less impervious cover.

     This site will be used for low density single-family residential development but has more than 20% impervious cover.

X This site will not be used for low density single-family residential development.

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

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:

Gary Nicholls   
Print Name of Applicant/Owner/Engineer

   
Signature of Applicant/Owner/Engineer

11/14/00   
Date



# Dean Word Company, Ltd.

## Lonestar Quarry

### Permanent Stormwater Section Attachments B, C , D & I

Permanent stormwater controls are those that are to remain in place after construction at the site has been completed. At the time quarrying is completed at the subject site, upgradient and on-site stormwater will be retained in the quarry pit and will not leave the site. Because no hazardous substances will be stored on the subject site, limited opportunity for pollution of stormwater from upgradient or on-site is anticipated.

Static hydrocarbons will be stored in two steel reinforced concrete containments onsite, as shown on the Geology, Site and Drainage Map. An AST Facility Application has been submitted for these containment structures. Normal vehicle and heavy equipment maintenance will be performed on a covered, curbed concrete pad located adjacent to the mobile equipment containment. On-road product trucks will continue to be serviced at Word Company's facility in New Braunfels.

Quarrying at the site will remove the geologic and manmade features identified in the Geologic Assessment within the Recharge Zone, with the exception of S8, S9, S10, and S11. S8 is an active water well. S9 is a solution cavity that is located in an area that is not intended to be disturbed. The area upgradient of S9 is also planned to be undisturbed. S10 and S11 are manmade pits approximately 4 feet deep that expose soil. There are no construction or development plans for this area. Because no clearing, construction or other development is proposed for these areas or areas upgradient from these features, pollution abatement measures are considered to be unnecessary.

During the active life of the quarry, surface stream contamination will be minimized by the use of the quarry pit as a retention facility, and rock berms to be placed in the runoff areas. Earthen berms will also be constructed downgradient of cleared areas to reduce erosion and runoff. (See the Attachments in the Temporary Section.)

Surface stream contamination due to the construction and development of the quarry, secondary crushing plant, asphalt plant, and associated offices, containments and stockpile areas will not occur because upgradient and on-site stormwater will be retained in the quarry pit. Flows downstream will not be increased due to the project.

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

I \_\_\_\_\_ **Bryan Word, P.E.**  
Print Name

\_\_\_\_\_ **Partner**  
Title - Owner/President/Other

of \_\_\_\_\_ **Dean Word Company, Ltd.**  
Corporation/Partnership/Entity Name

have authorized \_\_\_\_\_ **Gary D. Nicholls, P.E.**  
Print Name of Agent/Engineer

of \_\_\_\_\_ **Westward Environmental Inc.**  
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas 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.

[Signature]  
Applicant's Signature

11.3.00  
Date

THE STATE OF TEXAS §

County of Cook §

BEFORE ME, the undersigned authority, on this day personally appeared Bayan Word 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 3<sup>rd</sup> day of November, 2000.



[Signature]

NOTARY PUBLIC

Donald K. PETERS  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 12-7-2000

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

NAME OF PROPOSED PROJECT: Dean Word Company, Ltd. - Lonestar Quarry  
 PROJECT LOCATION: West of FM 482 north of intersection with Schwab Road  
 NAME OF APPLICANT: Dean Word Company, Ltd.  
 APPLICANT'S ADDRESS: P.O. Box 310330 New Braunfels, TX 78131-0330  
 CONTACT PERSON: Bryan Word PHONE: 830 606-5000  
 Please Print

**AUSTIN REGIONAL OFFICE (3373)**

- Hays  
 Travis  
 Williamson

**SAN ANTONIO REGIONAL OFFICE (3362)**

- Bexar  Medina  
 Comal  Uvalde  
 Kinney

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):

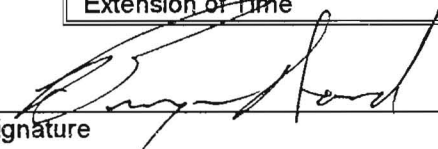
**SAN ANTONIO REGIONAL OFFICE**

- 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	280 Acres	\$ 5,000.00
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	\$

 11.3.00  
 Signature Date

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	\$1,000
	5 < 10	\$2,000
	10 < 50	\$3,000
	≥50	\$5,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$2,000
	1 < 5	\$3,000
	5 < 10	\$4,000
	≥10	\$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

**DEAN WORD COMPANY, LTD.**

PH. 830-625-2365 P.O. BOX 310330  
NEW BRAUNFELS, TEXAS 78131-0330

No. 002685

November 3, 2000

PAY TO THE  
ORDER OF

TNRCC

\$ 5,000.00

DEAN WORD COMPANY 5000 DOLS 00 CTS

DOLLARS

CHASE BANK OF TEXAS  
NEW BRAUNFELS, TEXAS

DEAN WORD COMPANY, LTD.

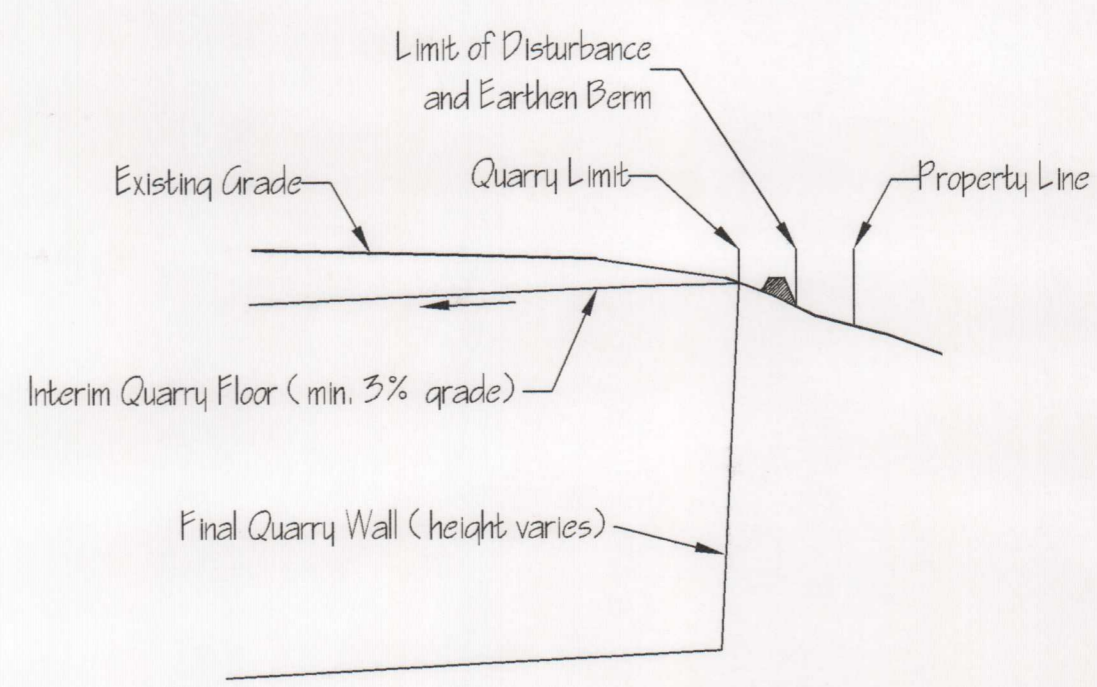
*Rebecca Gal*

⑈002685⑈ ⑆111001150⑆ ⑈05800258020⑈

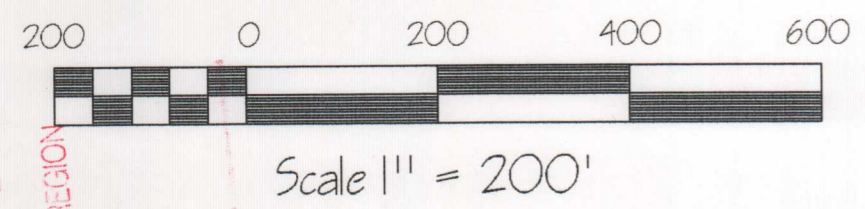
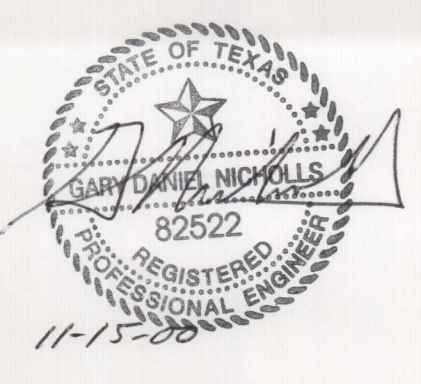
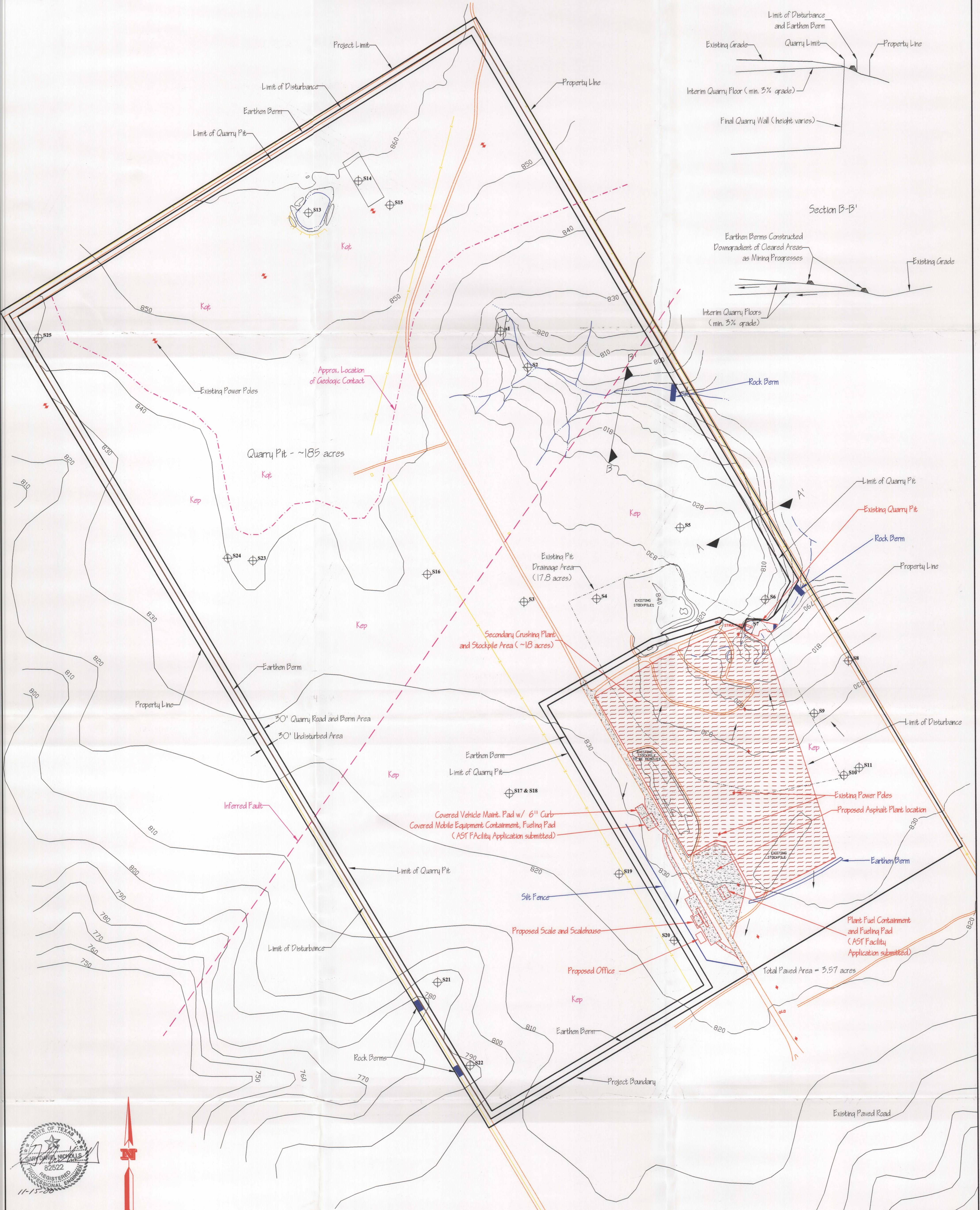
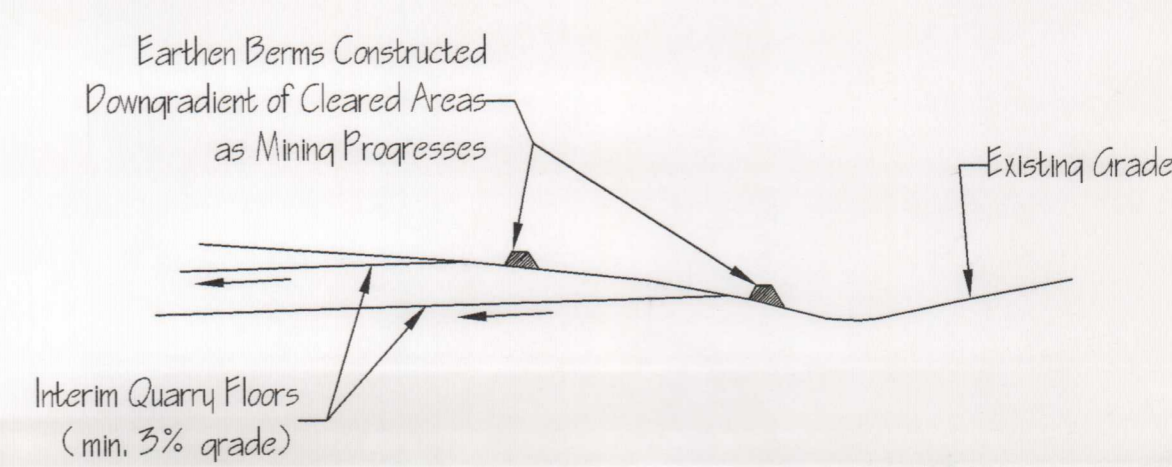
DEAN WORD COMPANY, LTD.  
New Braunfels, Texas 78131

PLEASE DETACH AND KEEP THIS STATEMENT  
RECEIPT NOT REQUIRED RETURN BOTH PARTS IF ERROR IS FOUND.  
BY ENDORSEMENT THE CHECK IS ACCEPTED IN FULL PAYMENT OF FOLLOWING.

Section A-A'



Section B-B'



RECEIVED - TAMPON  
 7:00 AM 15 PM 2:50  
 SAN ANTONIO REGION

Westward Environmental, Inc. P.O. Box 2206 Plano, Texas 75006 (214) 698-2492 Fax: (214) 698-2496				
Dean Word Company, Ltd. Lonestar Quarry and ACP WPAP Geologic, Site and Drainage Map				
CLIENT: Dean Word Company, Ltd. PROJECT: Lonestar Quarry and ACP WPAP TITLE: Geologic, Site and Drainage Map DRAWN BY: GDN PROJECT #: 10175-02 SCALE: AS NOTED SHEET: 1 OF 1	NO.	REVISION	DATE	BY

EXPLANATION	
	Existing Base Roads
	Existing Base Roads to be Paved
	Proposed Paved Roads
	Proposed Rock Berms
	Edwards Group - Person Formation
	Edwards Group - Georgetown Formation
	Approx. Location of Geologic Contact
	Fault (Inferred, mapped from Water Resources Investigations Report 94-4117, 1994.)
	Direction of Surface Flow
	Proposed Secondary Plant and Stockpile Area