Bryan W. Shaw, Ph.D., Chairman Carlos Rubinstein, Commissioner Toby Baker, Commissioner Zak Covar, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 8, 2013

Mr. Tom Singley Colorado Materials, Ltd. P.O. Box 2109 San Marcos, TX 78667

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: Hunter Quarry II; Located approximately 0.1 miles northeast of the intersection of FM1102 and FM 2439; Hunter, Texas

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

Investigation No. 1105493; Regulated Entity No. RN102380250; Additional ID No. 13-13072901

Dear Mr. Singley:

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 Colorado Materials, Ltd. on July 29, 2013. Final review of the WPAP was completed after additional material was received on October 7, 2013 and November 1, 2013. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

PROJECT DESCRIPTION

The proposed limestone quarry project will have a total area of approximately 845 acres. The proposed quarry pit will disturb approximately 714 acres. The proposed activities for the site include quarrying to an elevation no deeper than 609 feet above mean sea level (a.m.s.l.). Haul roads and stock piles will be contained within the quarry pit. The pits will be excavated in 10 acre sections and separated by existing stream channels. As presented, the stream channels will only be quarried with prior approval from all appropriate jurisdictional agencies. No on-site sewage facility is proposed at this time. Project wastewater

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

Mr. Tom Singley Page 3 November 8, 2013

Natural buffers were proposed for eleven natural sensitive features, S-58, S-49, S-60, S-69, S-72, S-70, S-106a, S-106b, S-109, S-110, and S-111. No regulated activities (such as construction or soil disturbing activities) will take place within the natural buffers. The size is generally based on the drainage are for each sensitive feature. The natural 200 foot buffer area along the southern side of York Creek (and the final earthen berm) will include all sensitive features.

SPECIAL CONDITIONS

- I. The on-site Quarry Manager will receive annual training from a licensed Professional Geoscientist on feature identification and protection. Each occurrence of this training must be documented and the documentation must be presented when requested by TCEQ representatives.
- II. The on-site Quarry Manager experienced in feature identification will conduct visual surveys of the pit to ensure adequate identification and reporting of encountered sensitive features. Visual surveys will be conducted monthly. Results of each visual survey conducted by the on-site Quarry Manager must be documented and then presented when requested by TCEQ representatives.
- III. This approval does not authorize the construction or installation of aboveground storage tanks at the site on the Edwards Aquifer recharge zone.
- IV. The BMPs and measures proposed in the application and/or described in this approval letter must be operational prior to any soil disturbing activities with in a BMP's drainage area.
- V. Intentional discharges of sediment laden water from regulated activities are not allowed. If dewatering becomes necessary, appropriate measures must be taken.
- VI. 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.

VII. This approval letter is being issued for regulated activities (as defined in Chapter 213) and for best management practices presented in the application. Other authorizations may be necessary. Failure to obtain all necessary authorizations could result in enforcement actions.

STANDARD CONDITIONS

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

Mr. Tom Singley Page 5 November 8, 2013

- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. "No well 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 water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

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



November 1, 2013

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Region 13 Office – San Antonio 14250 Judson Rd. San Antonio, Texas 78233 Project No.: 10080-85

RECEIVED

Attn:

Ms. Monica Reves

NOV 1 9 2013

Subject:

Proposed Water Pollution Abatement Plan (WPAP) - Response to Questions

Hunter Quarry II – EAPP ID No. 13-13072901, RN102380250

COUNTY ENGINEER

Colorado Materials, Ltd. – CN600522452 Dear Ms. Reyes,

Below please find Westward Environmental Inc.'s (WESTWARD'S) response to your second letter dated October 24, 2013 regarding the Colorado Materials, Ltd. WPAP application submitted July 29, 2013. Our response is as follows:

TCEO Question #1

Will compact roads be a part of the site? If so they will need to be counted as impervious cover, and treatment measures will need to be presented. "Pavement including streets, driveways, parking lots, etc...compacted road base, such as that used for parking areas...other surfaces that prevent the infiltration of water into soil." (RG-348, Section 3.3.2)

Response: The entrance road shown on the Site Plan is a ramp leading into the pit. Runoff from this ramp drains to and is controlled inside the quarry pit. There will be no additional permanent roadways as part of this project. Truck traffic within the pit area will vary based on current quarry operations (equipment layout, stockpile location, etc.). These traffic routes are simply areas within the pit between stockpiles and equipment. No roads will be constructed within the pit. The pit will serve as the BMP for all operations within the pit.

WESTWARD requests to see a draft of the approval conditions before TCEQ officially issues plan approval. If you have any questions regarding this response, or require further information, please call our office at (830) 249-8284.

Respectfully submitted,

WESTWARD ENVIRONMENTAL, INC.

Mary Ellen Schulle, PE, CFM

Project Engineer

TX - License #114545

Distribution: Addressee

Mr. Tom Singley - Colorado Materials, Ltd.

WEI 10080-85 File

Office P.O. Box 2205 Boerne, TX 78006



Main 830.249.8284 | Fax 830.249.0221



October 7, 2013

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Region 13 Office – San Antonio 14250 Judson Rd. San Antonio, Texas 78233

Attn:

Ms. Monica Reyes

Subject:

Proposed Water Pollution Abatement Plan (WPAP) - Response to Questions

Hunter Quarry II - EAPP ID No. 13-13072901, RN102380250

Colorado Materials, Ltd. - CN600522452

Dear Ms. Reyes,

Attached please find Westward Environmental Inc.'s (WESTWARD'S) response to your letter dated September 27, 2013 regarding the Colorado Materials, Ltd. WPAP application submitted July 29, 2013. Our response is as follows:

TCEO Question #1

Please show S-60 as feature zone.

Response: Please see the attached revised Geologic Assessment Map and WPAP Site Plan which have been revised to show S-60 as a Feature Zone. Feature Zone S-60 is 45' by 20' and therefore may be difficult to see at the map scale.

TCEO Question #2

Please show 25' buffer around Bullhead Hollow.

Response: Please see the attached revised WPAP Site Plan which has been revised to include the 25' buffer around Bullhead Hollow.

WESTWARD requests to see a draft of the approval conditions before TCEQ officially issues plan approval. If you have any questions regarding this response, or require further information, please call our office at (830) 249-8284.

Respectfully submitted,

WESTWARD ENVIRONMENTA

Mary Ellen Schulle, PE, CFM

Project Engineer

TX - License #114545

Addressee

Mr. Tom Singley - Colorado Materials, Ltd.

WEI 10080-85 File

Attachments

Distribution:

Main 830.249.8284 | Fax 830.249.0221

RECEIVED

COUNTY ENGINEER

Texas Registered Geoscience Firm # 50112

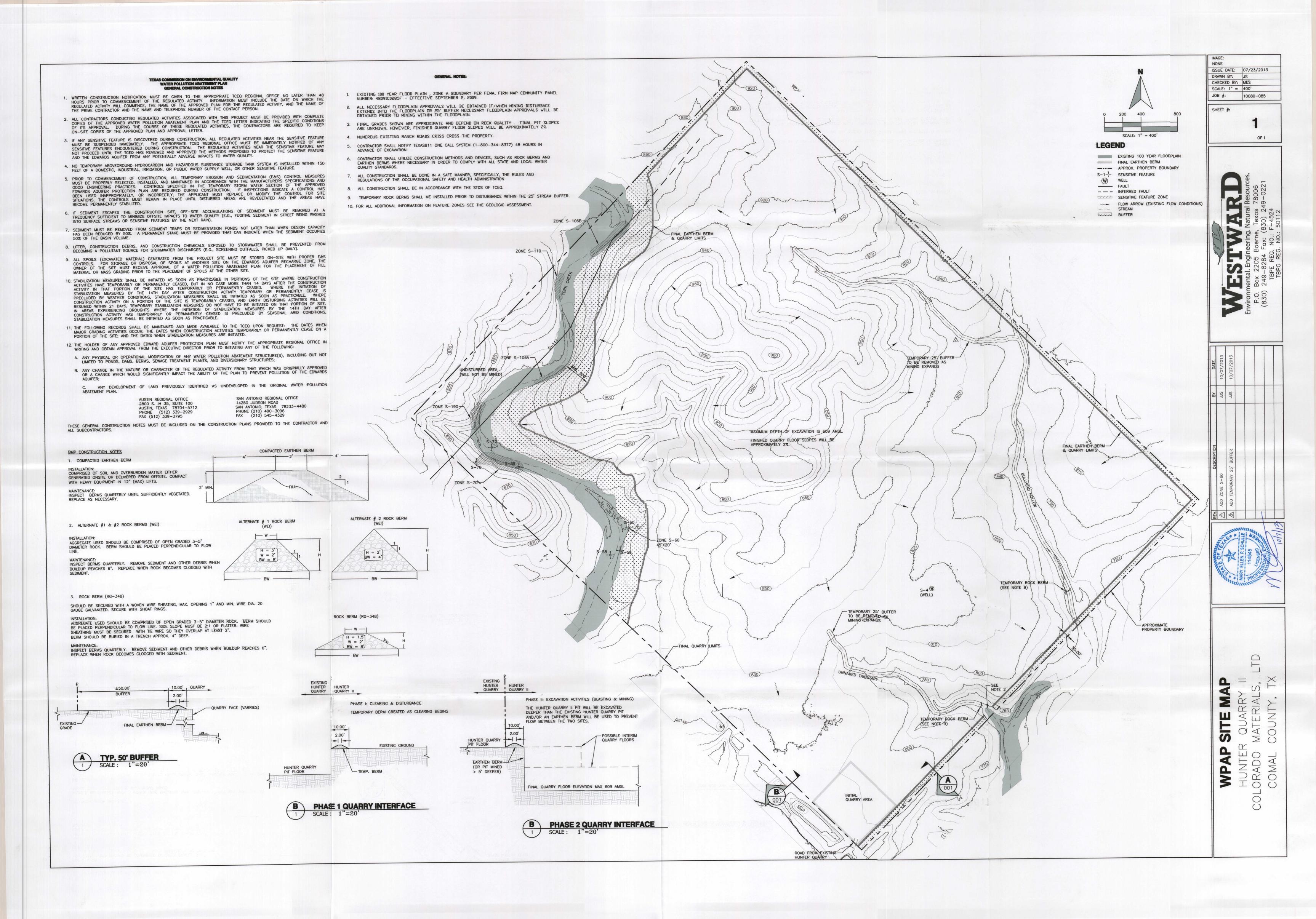
Office P.O. Box 2205 Boerne, TX 78006

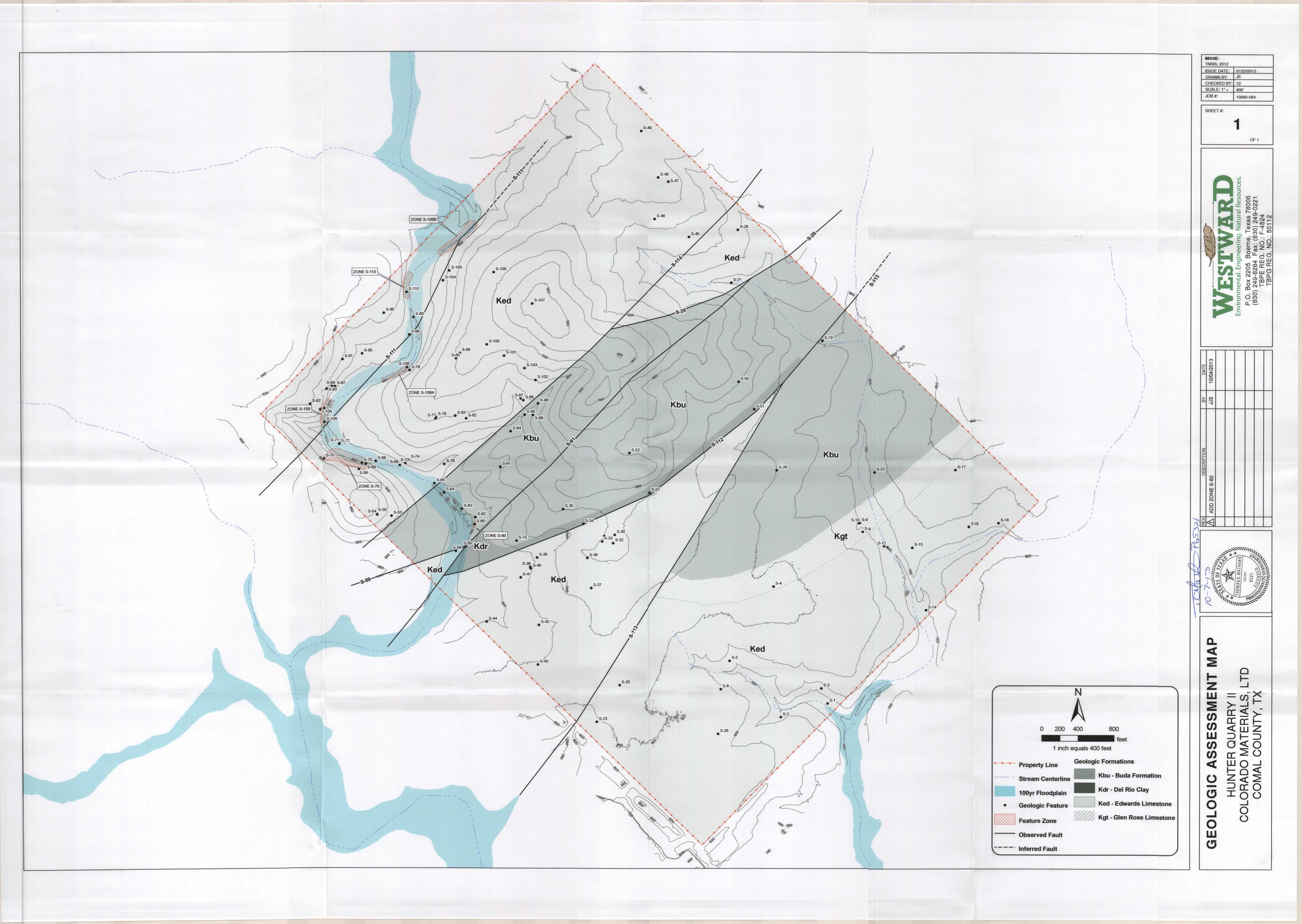
Texas Registered Engineering Firm #F-4524

westwardenv.com

2013 OCT -7 PM L. SO

Project No.: 10080-85







Preventing Pollution

Х Т R A N S Ī NUMBER OF PAGES (including this September 27, 2013 cover sheet): TO: Name Mr. Tom Singley Organization Colorado Materials, Ltd. FAX Number 512-396-1558 TO: Ms. Mary Ellen Schulle, P.E. Name Organization Westward Environmental, Inc.

FROM: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

830-249-0221

Name Monica Reyes

Division/Region EAPP/San Antonio

Telephone
Number 210-403-4012

FAX Number 210-545-4329

NOTES:

Re: Edwards Aquifer, Comal County

FAX Number

NAME OF PROJECT: Hunter Quarry II; Located west side of FM2439 approximately 0.1 miles northeast of the intersection of FM 1102 and FM 2439; Comal County, Texas

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

Investigation No. 1105493; Regulated Entity No. RN102380250; Additional ID No. 13-13072901

Dear Ms. Schulle:

We are in the process of technically reviewing the WPAP application you submitted for the above-referenced project. Before we can proceed with our review, the following comments relating to the application must be addressed:

Geologic Assessment Map Comment:

1. Please show S-60 as feature zone.

Mr. Thad Rutherford/Mr. Heath L. Woods, P.E. September 3, 2013
Page 2

Water Pollution Abatement Plan Site Map Comments:

1. Please show 25' buffer around Bullhead Hollow.

We ask that you submit **one original and four copies** of the amended materials to supplement the WPAP application to this office by no later than 14 days from the date of this fax to avoid denial of the plan. If the response to this notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, a second notice will be sent to you requiring a response within 14 days from the notice date. If the response to the second is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application will be denied unless you provide written notification that the application is being withdrawn. Please note that the application fee will be forfeited if the plan is not withdrawn. If you have any questions or require additional information, please contact Neal Denton of the Edwards Aquifer Protection Program of the San Antonio Regional Office at the number listed above.

Bryan W. Shaw, Ph.D., Chairman Carlos Rubinstein, Commissioner Toby Baker, Commissioner Zak Covar, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 31, 2013

AUG 0 1 2013 COUNTY ENGINEER

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

Re: Edwards Aquifer, Comal County

PROJECT NAME: Hunter Quarry II, located at 5080 FM 2439, New Braunfels, Texas

PLAN TYPE: Application for Approval of a Water Pollution Plan (WPAP) 30 Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program EAPP File No. and Regulated Entity No.: RN102380250

Dear Mr. Hornseth:

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

Please forward your comments to this office by August 31, 2013.

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

Sincerely

Todd Jones

Water Section Work Leader San Antonio Regional Office

TJ/eg

WATER POLLUTION ABATEMENT PLAN (WPAP)

COLORADO MATERIALS, LTD HUNTER QUARRY II



5080 FM 2439 NEW BRAUNFELS, COMAL COUNTY, TEXAS

Submitted to: TCEQ, Region 13 Office, San Antonio

JULY 2013

Prepared by:

WESTWARD ENVIRONMENTAL, INC.

Boerne, Texas Project No. 10080-85

Signature: _

Mary Ellen P. Schulle, P.E. - License No. 1

Date: 7/18/13

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Water Pollution Abatement Plan Checklist

x General Information Form (TCEQ-0587)

ATTACHMENT A - Road Map

ATTACHMENT B - USGS / Edwards Recharge Zone Map

ATTACHMENT C - Project Description

_x Geologic Assessment Form (TCEQ-0585)

ATTACHMENT A - Geologic Assessment Table (TCEQ-0585-Table)

Comments to the Geologic Assessment Table

ATTACHMENT B - Soil Profile and Narrative of Soil Units

ATTACHMENT C - Stratigraphic Column

ATTACHMENT D - Narrative of Site Specific Geology

Site Geologic Map(s)

Table or list for the position of features' latitude/longitude (if mapped using GPS)

<u>x</u> Water Pollution Abatement Plan Application Form (*TCEQ-0584*)

ATTACHMENT A - Factors Affecting Water Quality

ATTACHMENT B - Volume and Character of Stormwater

ATTACHMENT C - Suitability Letter from Authorized Agent (if OSSF is proposed)

ATTACHMENT D - Exception to the Required Geologic Assessment (if requesting an exception)

Site Plan

<u>x</u> Temporary Stormwater Section (*TCEQ-0602*)

ATTACHMENT A - Spill Response Actions

ATTACHMENT B - Potential Sources of Contamination

ATTACHMENT C - Sequence of Major Activities

ATTACHMENT D - Temporary Best Management Practices and Measures

ATTACHMENT E - Request to Temporarily Seal a Feature, if sealing a feature

ATTACHMENT F - Structural Practices

ATTACHMENT G - Drainage Area Map

ATTACHMENT H - Temporary Sediment Pond(s) Plans and Calculations

ATTACHMENT I - Inspection and Maintenance for BMPs

ATTACHMENT J - Schedule of Interim and Permanent Soil Stabilization Practices

x Permanent Stormwater Section (*TCEQ-0600*)

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

ATTACHMENT B - BMPs for Upgradient Stormwater

ATTACHMENT C - BMPs for On-site Stormwater

ATTACHMENT D - BMPs for Surface Streams

ATTACHMENT E - Request to Seal Features (if sealing a feature)

ATTACHMENT F - Construction Plans

ATTACHMENT G - Inspection, Maintenance, Repair and Retrofit Plan

ATTACHMENT H - Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the

Edwards Aquifer Rules: Technical Guidance for BMPs

ATTACHMENT I -Measures for Minimizing Surface Stream Contamination

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

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

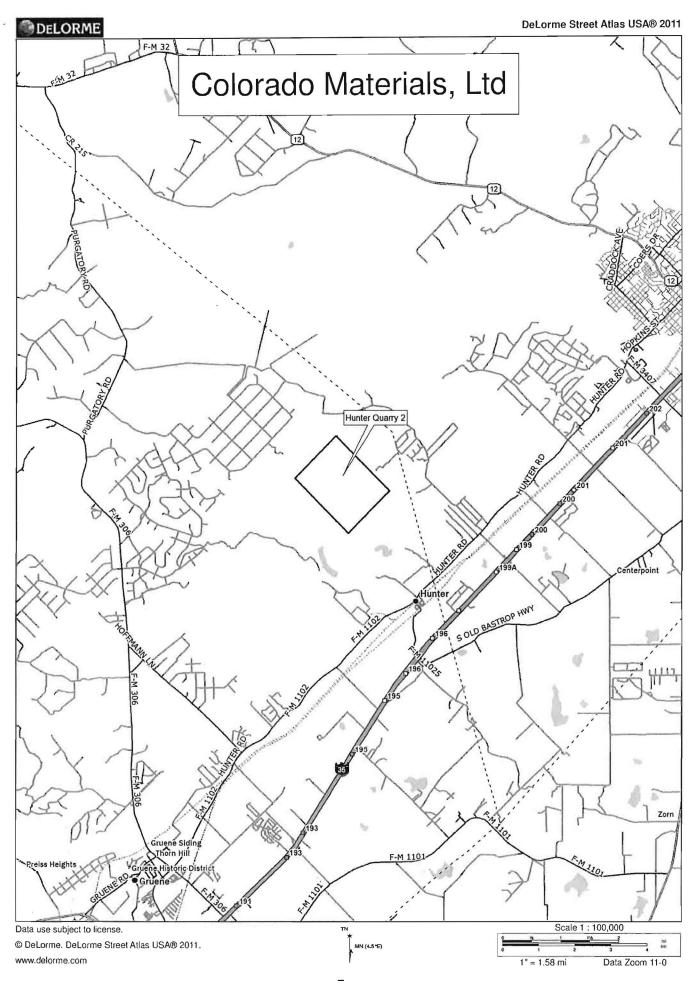
			E: Hunter Qua	rry II							
COUN	TY:	Comal		STREAM BASIN: _	Guadalupe						
EDWA	RDS A	QUIFER:	_x_ RECHARGE ZO TRANSITION ZO								
PLAN	TYPE:		_x_WPAP SCS	AST UST	EXCEPTIONMODIFICATION						
CUST	OMER I	NFORMATIO	N								
1.	Custor	ner (Applicant)	:								
	Entity:		Tom Singley Colorado Materials, PO Box 2109 San Marcos, TX 512-396-1556		: <u>78667</u> 396-1558						
	Agent/Representative (If any):										
	Entity:		Mary Ellen Schulle, PE Westward Environmental, Inc. 4 Shooting Club Rd. Boerne, TX Zip: _78006 830-249-8284 FAX: 830-249-0221								
2.	This project is inside the city limits of This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of San Marcos, TX This project is not located within any city's limits or ETJ.										
3.	and cla		e TCEQ's Regional s		ription provides sufficient detail the project and site boundaries						
	Site ei	ntrance is on ction of FM 11	the west side of l 02 and FM 2439 in F	FM2439 approximate lunter, Texas.	y 0.1 miles northeast of the						
4.	_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.										
5.	<u>X</u>	official 7 1/2	minute USGS Quad	drangle Map (Scale:	ZONE MAP . A copy of the 1" = 2000') of the Edwards s) should clearly show:						
		x Projec	t site.								

		 USGS Quadrangle Name(s). Boundaries of the Recharge Zone (and Transition Zone, if applicable). Drainage path from the project to the boundary of the Recharge Zone. 								
6.	X	Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment. The TCEQ must be able to inspect the project site or the application will be returned.								
7.	<u>X</u>	ATTACHMENT C - PROJECT DESCRIPTION. Attached at the end of this form is a detailed narrative description of the proposed project.								
8.	Existin	project site conditions are noted below: Existing commercial site Existing industrial site Existing residential site x Existing paved and/or unpaved roads Undeveloped (Cleared) x Undeveloped (Undisturbed/Uncleared) Other:								
PROH	IBITED	CTIVITIES								
9.	<u>X</u>	am aware that the following activities are prohibited on the Recharge Zone and are ot proposed for this project:								
		waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control); new feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3; land disposal of Class I wastes, as defined in 30 TAC §335.1; the use of sewage holding tanks as parts of organized collection systems; and new municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).								
10.	<u>X</u>	am aware that the following activities are prohibited on the Transition Zone and are ot proposed for this project:								
		waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control); land disposal of Class I wastes, as defined in 30 TAC §335.1; and 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.								
ADMIN	IISTRA	VE INFORMATION								
11.	The fee	for the plan(s) is based on:								
	X	or a Water Pollution Abatement Plan and Modifications, the total acreage of the site where regulated activities will occur. or an Organized Sewage Collection System Plans and Modifications, the total linear potage of all collection system lines.								

	_ 	For a UST Facility Plan or an AST Facility Plan, the total number of tanks or piping systems. A request for an exception to any substantive portion of the regulations related to the protection of water quality. A request for an extension to a previously approved plan.
12.	not su submit	ation fees are due and payable at the time the application is filed. If the correct fee is bmitted, the TCEQ is not required to consider the application until the correct fee is ted. Both the fee and the Edwards Aquifer Fee Form have been sent to the ission's:
		TCEQ cashier Austin Regional Office (for projects in Hays, Travis, and Williamson Counties) San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
13.	_x_	Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
14.	<u>X</u>	No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.
concer	ning th	f my knowledge, the responses to this form accurately reflect all information requested e proposed regulated activities and methods to protect the Edwards Aquifer. This IFORMATION FORM is hereby submitted for TCEQ review. The application was
Mary F	llen Sc	hulle, PE
Print N	lame of	Customer/Agent/Engineer MARY ELLEN P. SCHULLE 114545 126 4/CENSE 037 / 18/13
Signat	ure of C	ustomer/Agent/ <u>Engineer</u> Date
If you ha	ve questi	ons 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.



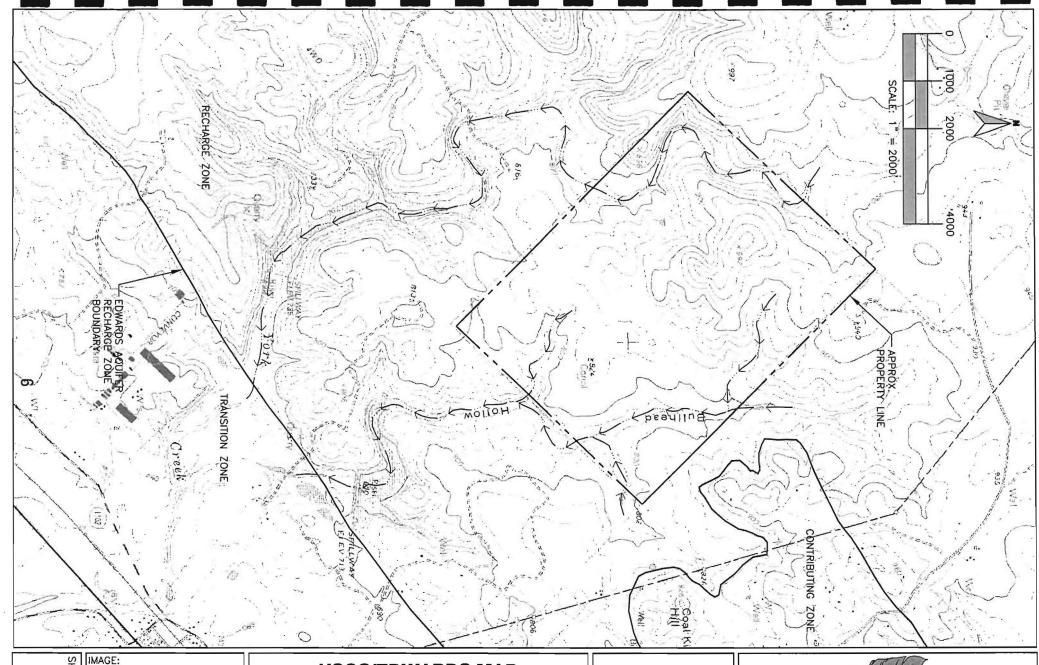


IMAGE:
HUNTER QUAD
ISSUE DATE: 12/7/12
DRAWN BY: MES
CHECKED BY: CC
SCALE: 1" = 2000'
JOB #: 10080-85

USGS/EDWARDS MAP

HUNTER QUARRY II
COLORADO MATERIALS, LTD.
COMAL COUNTY, TX

REV.	DESCRIPTION	BY	DATE
-			

WESTWARD

Environmental Engineering Natural Resources.
P.O. Box 2205 Boerne, Texos 78006
(830) 249-8284 Fox: (830) 249-0221
TBPE REG. NO.: F-4524
TBPG REG. NO.: 50112

Colorado Materials, Ltd **Hunter Quarry II**

General Information Form Attachment C

Project Description

Colorado Materials, Ltd proposes to construct a limestone quarry on the subject tract of approximately 845 acres in Comal County. Of the 845 acre property, approximately 714 acres are proposed to be quarried. Mining will advance from southeast to northwest. The site will connect to the existing limestone quarry (Hunter Quarry) located at 5080 FM 2439 in New Braunfels, Comal County, Texas. An existing road which connects to the original Hunter site quarry pit will be used as the entrance to this site and will drain to the pit. Several existing ranch roads may be utilized.

A 10-acre area will be cleared and used to start the quarry excavation (approx. initial quarry location is shown on the WPAP Site Plan). As the guarry expands to the Final Earthen Berm as shown on the WPAP Site Plan, areas will be cleared in increments of less than 10 acres at a time. Mined material at Hunter Quarry II will be loaded into trucks and hauled or conveyed to the existing Hunter Quarry for processing. A primary crusher maybe located in the Hunter Quarry II pit in the future. Any stockpiles will be located in the pit or drain to the pit.

Nearly the entire site is proposed to be quarried, as shown on the site map. This includes areas located within the floodplain of Unnamed Tributary 1. Prior to mining in the floodplain, Colorado Materials, Ltd. will obtain all applicable floodplain development authorizations from the county and/or FEMA. 25 foot natural vegetated buffers will be left in place around Bullhead Hollow and Unnamed Tributary 1(and associated 100 year floodplain) until they are ready to be quarried. An approximately 200 foot natural vegetated buffer will be maintained along the southern side of York Creek and will serve as a buffer for York Creek as well as a buffer for the sensitive features located there.

Temporary BMPs consisting of earthen berms, and vegetated areas will be utilized to control and treat stormwater runoff in the initial stages of construction. Temporary earthen berms will be built as a result of clearing and will retain stormwater runoff from disturbed areas prior to excavation. Temporary natural existing vegetation will be maintained in a 25 foot buffer along Bullhead Hollow and Unnamed Tributary 1 (and associated 100 year floodplain). These buffers will be maintained until mining begins in these areas. A permanent approximately 200 foot wide buffer will be maintained along the southern side of York Creek and will serve as a buffer for the stream as well as for sensitive features located there. A permanent 50 foot buffer along the property line (except where Hunter Quarry II borders Hunter Quarry as noted on the WPAP site plan) will serve as final treatment for stormwater leaving the site.

Trash generated on-site will be disposed of in a dumpster and handled by a licensed waste service. A water truck will be used as necessary to control dust. Portable toilets will be used at Hunter Quarry II.

Routine maintenance will not occur at the proposed Hunter Quarry II site. To the extent feasible emergency repairs will be performed at the existing Hunter Quarry. Fueling of equipment is not anticipated at the proposed Hunter Quarry II.

Colorado Materials, Ltd **Hunter Quarry II**

It is not expected that any significant amount of groundwater will be encountered in the quarry excavation. A 25 foot separation distance between the pit floor and the groundwater level will be maintained. As noted in the groundwater availability summary the estimated wet-weather groundwater elevation at Hunter Quarry II is 583.65 feet below the surface. To maintain a 25 foot separation from groundwater, the quarry floor will not be lower than 609 feet amsl.

The geologic assessment included in this submittal covers the entire 845 acres of the site. Twelve (12) sensitive features were discovered on-site and are located near York Creek (see WPAP Site Map). These features will be protected by the approximately 200' buffer along the southern side of York Creek (and the final earthen berm).

<u>Geologic Assessment</u> For Regulated Activities

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

REGI	JLATED	ENTITY NAME:		Hunter Q	uarry II				
TYPE	OF PR	OJECT: X WP	AP,	AST _	scs	UST			
			X Recha	irge Zone _	_ Transiti	on Zone _	_ Contributing Zone w the Transition Zone		
PRO	JECT IN	FORMATION							
1.	<u>X</u>	Geologic or m			describe	ed and evalu	uated using the atta	ched	
2.	Soil G Soil C	roups* (Urban H	<i>ydrology fo</i> ice, 1986)	or Small Wat . If there is i	e <i>rsheds,</i> nore thar	<i>Technical Re</i> n one soil type	uses the SCS Hydro lease No. 55, Append e on the project site, s	dix A,	
		Soil Units, I Characteristics		ess		* Soil (Abbreviate			
	8	Soil Name	Group*	Thickness (feet)		A. Soils havin	ng a <u>high infiltration</u> rate hly wetted.		
		BtD	D	0 – 1.5'			ng a <u>moderate infiltration</u> roughly wetted.		
		CrD	С	0 – 1'		C. Soils havii	ng a <u>slow infiltration</u> rate		
	37 to 37 to 30 144 peter 43 130 peter 131 132 peter 131 peter 131 132 peter 131 peter 131 peter 131 peter 131 pete	ErG	D	0 – 0.83'		when thorough	ring a very slow infiltration		
		RUD	D	0 – 2.33'			oughly wetted.		
3.	_X_		mbers, and				of this form that sh nit should be at the to		
4.	<u>X</u>	of this form.	The desc	ription must	include a	a discussion	OGY is attached at the of the potential for and karst characteristic	fluid	
5.	<u>X</u>	Appropriate SIT	E GEOLO	GIC MAP(S)	are attac	ched:			
		The Site Geolo minimum scale			same sc	ale as the a	pplicant's Site Plan.	The	
		Applicant's Site Site Geologic M Site Soils Map S	ap Scale		il type)	$ 1" = 400 \\ 1" = 400 \\ 1" = 400 $	<u>)</u> '		
6.	Metho	d of collecting po X Global P		ta: System (GP	S) techno	ology.			

		Other method(s).						
7.	_X_	The project site is shown and labeled on the Site Geologic Map.						
8.	_X_	Surface geologic units are shown and labeled on the Site Geologic Map.						
9.	<u>X</u>	Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.						
	—	Geologic or manmade features were not discovered on the project site during the field investigation.						
10.	NA	The Recharge Zone boundary is shown and labeled, if appropriate.						
11.	All kno	wn wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.):						
	 There are _1_(#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.) The wells are not in use and have been properly abandoned. The wells are not in use and will be properly abandoned. The wells are in use and comply with 16 TAC Chapter 76. There are no wells or test holes of any kind known to exist on the project site. 							
ADMIN	IISTRA	TIVE INFORMATION						
12.		Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.						
		egic Assessment was performed: Dec. 4,5,6,7,11,12,13,17,18,19,20,26, 2012 & Jan. 8,25,31 & Feb. 1,4 & March 14, 2013 Date(s)						
concer	ning th	my knowledge, the responses to this form accurately reflect all information requested e proposed regulated activities and methods to protect the Edwards Aquifer. My fies that I am qualified as a geologist as defined by 30 TAC Chapter 213.						
		Geologist 830-249-8284 Telephone						
101	Joseph	Geologist Telephone 830-249-0221 Fax Tuly 12, 2013						
Signat	ure of G	eologist 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.

Westward Environmental, Inc.

(Name of Company)

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.

Representing: _

GEOL	GEOLOGIC ASSESSMENT TABLE PROJECT NAME: Colorado Materials																			
	LOCATION: Hu	nter, TX				8-0	FEATURE CHARACTERISTICS								EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	28	3		4		5	5A	6	7	8A	88	9	1	10	1	1	12
FEATURE IO	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NS!ONS	FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	8ENS	TTVTTY		ENT AREA RES)	TOPOGRAPHY
						х	Y	Z		10						<40	>40	<1.6	<u>>1.6</u>	
S-1	N29° 49.6849'	W98° 2.3191'	SC	20	Ked	0.7	0.3	3	90				FO	5	25	X		Х		HILLSIDE
S-2	N29° 49.6604'	W98° 2.4172'	SC	20	Ked	0.3	0.2	3	vertical				FO	5	25	Х		Х		HILLTOP
S-3	N29° 49.7126'	W98° 2.3318'	SC	20	Ked	0.4	0.2	0.7	115				FO	10	30	X		Χ		HILLSIDE
S-4	N29° 49.8994'	W98° 2.4303'	MM	30	Kgt	0.5	0.5	unk	none	1 (5.6			X	5	35	X		Х		HILLSIDE
S-5	N29° 49.7642'	W98° 2.5235'	SC	20	Ked	1.1	1.4	0.9	vertical				F	5	25	X		Х		HILLSIDE
S-6	N29° 49.7124'	W98° 2.5427'	SC	20	Ked	0.9	1	0.6	355				F	5	25	X		Χ		HILLSIDE
S-7	N29° 49.9873'	W98° 2.2978'	CD	5	Kgt	8	4.5	0.8	90				F	5	10	X		X		HILLTOP
S-8	N29° 49.9982'	W98° 2.2425'	SC	20	Kgt	0.2	0.1	0.1	5				F	10	30	Х		X		HILLSIDE
S-9	N29° 50.0145'	W98° 2.2485'	0	5	Kgt	20	11	1.5	45	10			FO	10	25	Χ		X		HILLSIDE
S-10	N29° 50.014'	W98° 2.2504'	SC	20	Kgt	1.5	1.3	0.8	340				FO	10	30	X		Х		HILLSIDE
S-11	N29° 49.9779'	W98° 2.2029'	SC	20	Ked	2	0.5	2	45	10			FO	5	35	X		Х		HILLSIDE
S-12	N29° 49.9725'	W98° 2.198'	SC	20	Ked	1.7	0.7	>3	45	10			FO	5	35	Х		Х		HILLSIDE
S-13	N29° 49.9708'	W98° 2.1906'	CD	5	Ked	13	4	0.7	110				N	5	10	Х			Х	DRAINAGE
S-14	N29° 49.8549'	W98° 2.1116'	SC	20	Ked	0.7	0.4	1.5	245				FO	10	30	X		Х		HILLSIDE
S-15	N29° 49.9693'	W98° 2.139'	CD	5	Ked	6.5	3.7	0.7	38	10			F	5	20	X		Х		HILLTOP
S-16	N29° 50.0064'	W98° 2.0201'	SH	20	Ked	8	6	2	45	10			F	5	35	Х		Х		HILLSIDE
S-17	N29° 50.1105'	W98° 2.047'	SC	20	Ked	1.1	0.8	>3	25				F	10	30	X		Х		HILLSIDE
S-18	N29° 50.0129'	W98° 1.956'	SC	20	Ked	2	0.9	>3	110				FO	10	30	Х		Х		HILLSIDE
S-19	N29° 50.3481'	W98° 2.3236'	CD	5	Kbu	110	9	1.7	90				FO	10	15	Х			Х	DRAINAGE
S-20	N29° 50.5046'	W98° 2.4028'	F	20	Kbu/Kp	2600	20	unk	48	10			FN	5	35	Х			Х	HILLSIDE
* DATUM	I: NAD 83																			

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

8A INFILLING

- None, exposed bedrock
- Coarse cobbles, breakdown, sand, gravel
- Loose or soft mud or soil, organics, leaves, sticks, dark colors
- Fines, compacted clay-rich sediment, soil profile, gray or red colors
- Vegetation. Give details in narrative description
- Flowstone, cements, cave deposits
- Other materials

12 TOPOGRAPHY

Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

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

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

Sheet 1 of 6

THOMAS O. MATHEWS

GEOLO	GEOLOGIC ASSESSMENT TABLE PROJECT NAME: Colorado Materials																				
L	OCATION: Hunt	ter, TX					FE	ATURE (CHARACT	ERI	STICS					EVALUATION			PHYSICAL SETTING		
1A	18 *	1C*	2A	2B	3		4		5	5A	6	7	8A	88	9	1	٥ ,	1	3	12	
FEATURE ID	LATTTUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DI	MENSIONS (FEET)		TREND (DEGREES)	8	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	птупту	CATCHMENT A	REA (ACRES)	TOPOGRAPHY	
						х	Y	Z		10						<40	<u>>40</u>	<1,6	≥1,6		
S-21	N29° 50.455'	N98° 2.5138'	0	5	Ked	25	7	1.5	80				FO	10	15	Х			X	DRAINAGE	
S-22	same as S-113																				
S-23	N29° 49.6547'	W98° 2.804'	SC	20	Ked	2.5	1.1	>5	120				0	15	35	Х		Х		HILLSIDE	
S-24	same as S-113		THE SECOND	7114	F14 12	D.L.	1-1-11	1	9-11-23	2.54	\$100 miles	Section 1		100000	5-25 pag	-	WATE V	Non-State of		Marin Co.	
S-25	N29° 49.7215'	W98° 2.7556'	CD	5	Ked	6.5	4	0.8	85				F	5	10	X		Х		HILLSIDE	
S-26	N29° 49.6307'	W98° 2.549'	CD	5	Ked	9	5	0.7	85				F	5	10	Х		Х		HILLSIDE	
S-27	N29° 50.1074'	W98° 2.2166'	SC	20	Kbu	1.1	0.8	0.7	10				FO	10	30	Х		Х		HILLSIDE	
S-28	N29° 50.1116'	W98° 2.4215'	CD	5	Kbu	6	2.5	1	50	10			F	5	20	Х		Х		HILLSIDE	
S-29	N29° 50.5518'	W98° 2.4993'	SC	20	Ked	0.8	0.05	2.5	90				F	10	30	Х		Х		HILLSIDE	
S-30	N29° 49.9961'	W98° 2.7635'	SC	20	Ked	1.2	0.6	>2	10				FO	10	30	Х		Х		HILLTOP	
S-31	N29° 49.9941'	W98° 2.7853'	SC	20	Ked	0.8	2.5	1.1	135				FO	10	30	X		Х		HILLSIDE	
S-32	N29° 49.9809'	W98° 2.7668'	SH	20	Ked	4	2	0.9	38	10			F	5	35	X		Х		HILLSIDE	
S-33	N29° 49.9843'	W98° 2.7897'	SC	20	Ked	2.1	1.9	>3	320				F	5	25	X		Х		HILLSIDE	
S-34	N29° 50.0166'	W98° 2.8292'	CD	5	Kdr	6	3	0.7	50	10			F	5	20	Х		X		HILLSIDE	
S-35	N29° 50.0434'	W98° 2.8712'	SC	20	Kbu	1.9	0.8	2.2	310				F	5	25	Х		Х		HILLSIDE	
S-36	N29° 49.9542'	W98° 2.8211'	SC	20	Ked	1	4.1	0.4	130				FO	10	30	Х		Х		HILLSIDE	
S-37	N29° 49.8995'	W98° 2.8135'	CD	5	Ked	5.5	3	0.7	90			12	F	5	10	Х		Х	<u> </u>	HILLSIDE	
S-38	N29° 49.9556'	W98° 2.9266'	SH	20	Ked	4.2	3.1	0.8	140				FO	10	30	Х		Х		HILLSIDE	
S-39	N29° 49.9389'	W98° 2.9411'	CD	5	Ked	5.5	3.5	1	130				F	5	10	Х		Х		HILLSIDE	
S-40	N29° 49.9356'	W98° 2.9398'	SC	20	Ked	1.2	0.9	1.9	355				FO	10	30	Х		Х		HILLSIDE	

	*	DAT	UM:	NAD	83
--	---	-----	-----	-----	----

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

8A INFILLING
OA INFILLING

None, exposed bedrock

Coarse - cobbles, breakdown, sand, gravel

Loose or soft mud or soil, organics, leaves, sticks, dark colors

Fines, compacted clay-rich sediment, soil profile, gray or red colors

Vegetation. Give details in narrative description

FS Flowstone, cements, cave deposits

Other materials

12 TOPOGRAPHY

Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

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

Thomas Or factor It Pa 5321

Date

Sheet 2 of 6



GEOL	OGIC ASSE	SSMENT TA		PROJECT NAME: Colorado Materials																
	LOCATION: Hu	ınter, TX				F	EAT	URE	CHARACT	ERI	STICS				EV	ALUAT	ION	Р	HYSI	CAL SETTING
1A	19 *	1C*	2A	2B	3		4		5	5A	6	7	A8	88	9	1	10	11		12
FEATURE ID	LATTTUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMEN	ISIONS (FEET)	TREND (DEGREES)	DOM.	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY	CATCH AREA (TOPOGRAPHY
						×	Y	Z		10						<40	<u>>40</u>	<1.6	<u>>1,6</u>	
S-41	N29° 49.9195'	W98° 2.9611'	CD	5	Ked	4	8	0.9	60				F	5	10	X		Χ		HILLSIDE
S-42	N29° 49.8326'	W98° 2.9241'	CD	5	Ked	10	3.5	0.8	350				F	5	10	Χ		Χ		HILLSIDE
S-43	N29° 49.7601'	W98° 2.9266'	SC	20	Ked	2.1	0.9	0.3	0				FO	15	35	Χ		Χ		HILLSIDE
S-44	N29° 49.8394'	W98° 3.0333'	CD	5	Ked	5.5	3.5	0.9	10				F	5	10	X		Χ		HILLSIDE
S-45	N29° 50.5391'	W98° 2.6019'	SH	20	Ked	4	2.7	0.8	130				F	8	28	X		Χ		HILLSIDE
S-46	N29° 50.5726'	W98° 2.6736'	SH	20	Ked	5.5	3.2	1.3	85				F	8	28	Х		Х		HILLSIDE
S-47	N29° 50.6406'	W98° 2.6444'	CD	5	Ked	7.5	4	0.8	40	10			F	5	20	X		Χ		HILLTOP
S-48	N29° 50.6483'	W98° 2.6654'	CD	5	Ked	8	4	1.2	75				F	5	10	Х		Χ		HILLSIDE
S-49	N29° 50.7336'	W98° 2.7006'	SC	20	Ked	4.8	1.3	.2.1	30				FO	10	30	Х		Χ		HILLTOP
S-50	N29° 50.2741'	W98° 2.500'	CD	5	Kbu	5	4.5	0.6	20				F	5	10	Х		Х		HILLSIDE
S-51	N29° 50.2235'	W98° 2.4676'	CD	5	Kdr	5.5	3	0.5	11				F	5	10	Х		Х		HILLSIDE
S-52	N29° 50.1453'	W98° 2.7311'	CD	5	Kbu	7.5	3.7	0.6	85				F	5	10	Х		Χ		HILLSIDE
S-53	N29° 50.0341'	W98° 3.2308'	CD	5	Ked	7.5	4	1.3	45	10			F	5	20	Х		Χ		HILLSIDE
S-54	N29° 50.0365'	W98° 3.2606'	SC	20	Ked	0.6	0.7	0.4	310				F	5	25	X		Х		HILLSIDE
S-55	N29° 50.0392'	W98° 3.2624'	SF	20	Ked	2.7	0.6	1.7	50	10			F	5	35	Х		X		HILLSIDE
S-56	N29° 50.1201'	W98° 3.2983'	CD	5	Ked	6	2.5	0.7	130				F	5	10	Х		Х		HILLSIDE
S-57	N29° 50.0724'	W98° 2.6883'	MB	5	Kdr	36	8	3.5	330				F	5	10	Х		Х		HILLSIDE
S-58	N29° 49.9687'	W98° 3.0967'	SC	20	Ked	0.7	0.5	>2	80				FO	20	40		Х		Х	FLOODPLAIN
S-59	N29° 49.9767'	W98° 3.0761'	F	20	Ked	1350	20	unk	50	10			FN	19	49		X		Х	FLOODPLAIN
S-60	N29° 42.7566'	W97° 11.4518'	Z SC SF	30	Ked	45	20	.1.5	25				FN	20	50		Х		Х	FLOODPLAIN
* DATUM	4: NAD 83											-					i —			

*	DAT	UM:	NAD	83

0,1,0,		
2A TYP	E TYPE	2B POINTS
С	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
0	Other natural bedrock features	5
мв	Manmade feature in bedrock	30
sw	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
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My signature-certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

The S321

Sheet 3 of 6

THOMAS O. MATHEWS GEOLOGY

GEOLOGIC ASSESSMENT TABLE PROJECT NAME: Colorado Materials																						
	LOCATION: Hun	ter, TX					FEATL	JRE CHAF	RACTERIS	TICS	3				EV	ALUATIO	N	Р	HYSICAL	SETTING		
1A	1B *	1C*	2A	28	3	4			5	5A	6	6 7		88	9	10		11		12		
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION		DIMENSIONS (FEET)		TREND (DEGREES	TREND (DEGREES)		TREND (DEGREES) &		APERTURE (FEET)	NALL	RELATIVE INFILTRATION RATE	TOTAL	SENSI	пуптү	CATCHMENT	AREA (ACRES)	TOPOGRAPHY
						х	Y	Z.		10						<40	>4Q	<1 6	≥1.6			
S-61	N29º 50.0171'	W98° 3.0571	F	20	Ked/Kbu	4900	20	unk	80	10			NFO	8	38	Х		X		HILLSIDE		
S-62	N29° 50.0301'	W98° 3.0551'	CD	5	Kbu	6	3.2	0.9	60				F	5	10	Х		Х		HILLSIDE		
S-63	N29° 50.0455'	W98° 3.0835'	CD	5	Kbu	20	7	1.3	120				FOC	10	15	X			Х	FLOODPLAIN		
S-64	N29° 50.0755'	W98° 3.1205'	0	5	Kbu	4	4	0.6	0				FO	10	15	Х			X	FLOODPLAIN		
S-65	N29° 50.0924'	W98° 3.1402'	0	5	Ked	11.5	7	3.1	125				FOC	15	20	Х			Х	FLOODPLAIN		
S-66	N29° 50.1265'	W98° 3.2125'	SC	20	Ked	2.1	1	1.6	20				FO	10	30	Х			Х	FLOODPLAIN		
S-67	N29° 50.1398'	W98° 3.2472'	0	5	Ked	2.5	8	1	280				NFO	15	20	X			Х	FLOODPLAIN		
S-68	N29° 50.1345'	W98° 3.2628'	SC	20	Ked	0.5	0.02	0.8	35				FO	10	30	Х			Х	FLOODPLAIN		
S-69	N29° 50.1298'	W98° 3.2833'	SC	20	Ked	0.9	0.6	2	35				FOV	25	45		X	Х		CLIFF		
S-70	N29° 50.1314'	W98° 3.292'	Z SC C SF	30	Ked	400	40	>5	315				NCOF	35	65		Х		Х	CLIFF/FLOOD		
S-71	N29° 50.1675'	W98° 3.3382'	0	5	Ked	80	40	4	310				NC	19	24	Х			X ·	FLOODPLAIN		
S-72	N29° 50.1664'	W98° 3,3389'	SC	20	Ked	0.7	2.1	>2	45	10			FO	19	49		X		Х	FLOODPLAIN		
S-73	N29° 50.1302'	W98° 3.2007'	SC	20	Ked	1.1	1.3	>1.8	10				FO	10	30	Х		Х		HILLSIDE		
S-74	N29° 50.1361'	W98° 3.1932'	SC	20	Ked	0.3	0.4	2	30				FO	10	30	Х		X		HILLSIDE		
S-75	N29° 49.9867'	W98° 2.9692'	SC	20	Kbu	0.7	1.5	0.5	5				FO	10	30	X		Х		HILLSIDE		
S-76	N29° 50.1275'	W98° 3.1194'	CD	5	Ked	25	10	3.5	20				N	5	10	Х			Х	DRAINAGE		
S-77	N29° 50.211'	W98° 3.1372'	SC	20	Ked	0.2	0.2	0.7	95				FO	10	30	Х		Х		HILLSIDE		
S-78	N29° 50.2137'	W98° 3.1359'	CD	5	Ked	6.5	4	0.7	120				FO	10	15	Х		Х		HILLSIDE		
S-79	N29° 50.2996'	W98° 3.1904'	SF	20	Ked	3	0.6	>3	130				FO	10	30	Х		Х		CLIFF		
S-80	N29° 50.3965'	W98° 3.1814'	SC	20	Ked	0.7	1.5	>1	145				FO	10	30	Х		Х		HILLSIDE		
* DATUM: N	AD 83																					

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

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

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

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

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

Sheet 4 of 6

L	OCATION: Hunte	er, TX					FEA	TURE CH	ARACTERI	STIC	S				E'	VALUATION	ON	PF	IYSICA	L SETTING
1A	18 *	1C*	2A 2B 3				4		5	5A	6	7	8A	88	9	10		1	1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION		DIMENSIONS (FEET) TRE		TREND (DEGREES)	TREND (DEGREES)		APERTURE (FEET)	(NFILL	RELATIVE INFILTRATION RATE	TOTAL	SEMS	WINTY	CATCHMENT	VREA (ACRES)	TOPOGRAPHY
						х	Y	7.		10						<40	≥40	≺1.6	≥1.6	
S-81	N29° 50.1218'	W98° 3.0021'	CD	5	Kdr	355	100	6	40				F	5	10	Х			Х	DRAINAGE
S-82	N29º 50.2105'	W98º 3.0726'	SC	20	Ked	0.2	0.3	>1.1	345				FO	10	30	Х		Х		HILLSIDE
S-83	N29º 50.2156'	W98° 3.0956'	SC	20	Ked	1	0.9	>2	310				FO	10	30	Х		Х		HILLSIDE
S-84	N29° 50.1866'	W98° 2.9797'	SF	20	Kbu	0.3	1.9	1.8	200				FO	10	30	Х			Х	DRAINAGE
S-85	N29° 50.3206'	W98° 3.0927'	CD	5	Ked	6	4	1,3	350				F	5	10	Х		Х		HILLSIDE
S-86	N29° 50.3303'	W98° 3.0845'	CD	5	Ked	7	2	0.9	15				F	5	10	Х		Х		HILLTOP
S-87	N29° 50.2465'	W98° 2.958'	SC	20	Ked .	1	0.6	>2	70				FO	10	30	Х		Х		HILLSIDE
S-88	N29° 50.2432'	W98° 2.9525'	·sc	20	Ked	0,1	0.3	>1.5	120				N	5	25	Х		Х		HILLSIDE
S-89	N29º 50.216'	W98° 2.9328'	SC	20	Kbu	0.2	0.8	>1	80				F	5	25	X		X		HILLSIDE
S-90	N29° 50.4051'	W98° 3.2434'	SC	20	Ked	0.5	0.3	0.6	320				FO	10	30	Х		X		HILLSIDE
S-91	N29° 50.3212'	W98° 3.3306'	SC	20	Ked	0.2	0.1	0.6	10				FC	15	35	Х		Х		HILLSIDE
S-92	N29° 50.24'	W98° 3.4015'	SC	20	Ked	0.6	1.1	0.5	40	10			F	5	35	X		Х		HILLSIDE
S-93	N29° 50.2673'	W98° 3.3646'	SF	20	Ked	4.7	0.2	>1.3	315				FO	10	30	Х		Х		HILLSIDE
S-94	N29º 50.2727'	W98° 3,3534'	SC	20	Ked	1.3	0.7	>2	270				FO	10	30	Х		Х		HILLSIDE
S-95	N29° 50.3312'	W98° 3.2895'	0	5	Ked	7	5.5	0.7	110				FC	15	20	X			Х	DRAINAGE
S-96	N29° 50.3646'	W98° 3.1904'	SF	20	Ked	3	0.6	1.3	265				FO	19	39	Х			Х	FLOODPLAIN
S-97	N29º 50.2721'	W98° 3.3466'	SC	20	Ked	2.3	1.1	>4	320				NF	10	30	Х		Х		CLIFF
S-98	N29° 50.2167'	W98° 2.95'	SC	20	Kbu	1.1	0.7	>.7	75				FO	10	30	Х			Х	DRAINAGE
S-99	N29º 50.2374'	W98º 2.9217'	0	5	Ked	15	7	1.4	310				FOC	15	20	Х			X	DRAINAGE
S-100	N29º 50.3456'	W98º 3.0281'	SC	20	Ked	0.1	1.5	>2	0				F	5	25	Х		Х		HILLSIDE

* DATUM: N	IAD 83	
2A TYPE	TYPE	28 POINTS
С	Cave	30
sc	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
0	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
sw	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

Г	8A INFILLING
1	None, exposed bedrock
c	Coarse - cobbles, breakdown, sand, gravel
c	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red cotors
1	Vegetation. Give details in narrative description
F	Flowstone, cements, cave deposits
×	Other materials
	-

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information presented here complies with that document and is a true representation of the conditions observed in the field.

Sheet 5 of 6



CD

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

Non-karst closed depression

Zone, clustered or aligned features

L	CATION: Hunt	ter, TX					FEATU	IRE CHA	RACTERIS	TICS					E	VALUATION	ON	PI	HYSICAL	SETTING
1A	18 *	10*	2A	2B	3		4		5	5A	6	7	8.4	88	9		10		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	c	ORMENSKONS (FEET)	,	TREND (DEGREES)	8	DENSITY (NOIFT)	APERTURE (FEET)	MALL	RELATIVE POFE TRATION RATE	TOTAL	SEA	NSHIVITY	CATCHMENT	AREA (ACRES)	TOPOGRAPHY
						х	Y	z		10						c40	≥40	<1.8	≥1.6	
-101	N29° 50.325'	W98° 2.992'	SC	20	Ked	1.3	0.8	0.9	135		-		FO	10	30	Х		X		HILLSIDE
-102	N29° 50.2799'	W98° 2.9267'	SC	20	Ked	0.2	0.1	0.7	0				F	5	25	Х		X		HILLSIDE
-103	N29° 50.3017'	W98° 2.9494'	SC	20	Ked	1.3	0.7	1.2	350				F	5	25	X		X		HILLSIDE
-104	N29° 47.85'	W98º 2.3667'	CD	5	Ked	7	4	0.5	355				F	5	10	X		X		HILLSIDE
-105	N29° 50.2799'	W98º 2.9267'	SC	20	Ked	4	0.7	>1.5	85				F	5	25	Х		×		HILLSIDE
-106a	N29° 50.5173'	W98° 3.1188'	Z	30	Ked	600	40	>5	48	10			NCF	35	75		X		X	DRAINAGE
-106b	N29° 50.5396'	W98º 3.082'	Z	30	Ked	500	40	>5	50	10			NCF	35	75		X		X	DRAINAGE
-107	N29° 50.4196'	W98° 2.9322'	CD	5	Ked	6	4	1	35				F	5	10	Х		×		HILLTOP
-108	N29° 50,4776'	W98° 3.0123'	CD	5	Ked	8	3.5	6	30				F	5	10	X		X		HILLSIDE
-109	N29° 50.2255'	W98° 3.3705'	Z	30	Ked	400	150	>5	45	10			NCFO	35	75		X		X	CLIFF/FLOO
-110	N29° 50.4561'	W98° 3.1968'	Z	30	Ked	250	40	>5	275				NCFO	20	50		X		X	FLODDPLAI
-111	N29° 50.4349'	W98º 3.1412'	F	20	Ked	5250	20 ?		45	10			NF	25	55		X		X	DRAIN/FLOC
-112	N29° 50.051'	W98° 2.7362'	F	20	Ked/Kdr	5275	20 ?		270	10			F	5	35	Х			Х	HILLSIDE
5-113	N29° 49.9811'	W98° 2.6077'	F	20	Ked/Kbu	4400	20 ?		45	10			F	5	35	X			X	HILLSIDE
-114	N29° 50.3102'	W98° 2.8437'	F	20	Ked/Kbu	5050	20 ?		45	10			F	5	35	X			X	HILLSIDE
															0					
															0					
															0					
															0					
															0					
															0					
DATUM: N	AD 83																			
A TYPE		TYPE			28 POINTS	Γ					8A IN	FILLING					•			
	Cave				30	1	N N	one, exposi	ed bedrock											
С	Solution cavity				20		c c	parse - cob	bles, breakdow	vn. sand. grave	el									
=	Solution-enlarged	(ractura(a)			20		O Loose or soft mud or soil, organics, leaves, sticks, dark colors													
	Fault	maxuro(s)			20					•										
	Other natural bed	rock features			5		F Fines, compacted clay-nich sediment, soil profile, gray or red colors V Vegetation. Give details in narrative description													
В	Manmade feature				30			_	ements, cave o		iption									
V	Swallow hole	III Deulock			30			ther materia		rc Posito										
н	Sinkhole				20	Ŀ	^ 0	mer materia	913											
	Silikilole		42 TOPOCDADIN												1					

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

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Soils Narrative

Geologic Assessment **Hunter Quarry II** New Braunfels, Comal County, Texas WEI Proj. No.: 10080-085

In accordance with the United States Department of Agriculture (USDA) Web Soil Survey, There are four different native surficial soils mapped at the site. The primary unit mapped is the Comfort-Rock outcrop complex, undulating (CrD) followed by the Rumble-Comfort association, undulating (RUD); Eckrant-Rock outcrop complex, steep (ErG) and the Brackett-Rock outcrop-Real complex, steep (BtD).

- Crd: The Comfort-Rock outcrop complex soil unit has slopes that range from 1% - 8% and is moderately drained. With a maximum calcium carbonate content of 90% this soil type has a typical profile of 0-13" extremely stony clay followed by bedrock from 13" -20".
- RUD: The Rumble-comfort association has slopes from 1% 8% and is moderately drained. RUD has a maximum calcium carbonate content of 5% and is typically a very gravelly clay loam from the surface to 10" then very gravelly clay from 10" - 28" before encountering bedrock.
- ErG: This Eckrant-Rock outcrop complex unit occurs in steep areas with slopes ranging from 8% - 30% and is moderately drained. There is an 8% maximum calcium carbonate content in this soil type and a typical profile is mapped as extremely stony clay from the surface to approximately 10" then bedrock.
- BtD: The Brackett-Real outcrop-Real complex unit is steep, has slopes from 1% - 8% and a maximum calcium carbonate content of 90%. The soil is moderately drained and this unit will have a gravelly clay loam from the surface to 17" before encountering bedrock.

Stratigraphic Column

Hydro	geol divisi	1270	Gro	- 7	ormation or ember	Hydrologic Function	Thickness (feet)	Lithology	Cavern development	Porosity / permeability type	
Upper Cretaceous	1	pper fining	E	Buda	Formation	CU	40-50	Buff, light gray, dense mudstone	Minor surface karst	Low porosity /low permeability	
Up	NOVEMBER 1	unite			el Rio Clay	CU	40-50	Blue-green to yellow-brown clay	None	None / primary upper confining unit	
	1				eorgetown	Karst AQ; not karst CU		Reddish-brown, gray to light tan marly limestone	None	Low porosity / low permeability	
	11.			F.m	Cyclic & marine members undivided	AQ	89-90	Mudstone to packstone; miliolid grainstone; chert	Many sub- surface	Laterally extensive; water yielding	
	Ш	<u>.</u>		uos.	Leached & collapsed members	AQ	70-90	Crystalline limestone; mudstone to grainstone; chert collapsed breccia	Extensive lateral development; large rooms	Majority not fabric / one o the most permeable	
s n o e o	IV	Aquif	roup	эе	Regional dense members	CU	20-24	Dense, argillaceous mudstone	Very few; only vertical fracture enlargement	Not fabric / low permeability; vertical barrier	
Cretac	V	r d s	s b s		Grainstone member	AQ	50-60	Miliolid grainstone; mudstone to wackestone; chert	Few	Not fabric / recrystallization reduces permeability	
Lower	VI	Edwa	Edwar	H.	Kirschberg evaporite member	AQ	50-60	Highly altered crystalline limestone; chalky mudstone; chert	Probably extensive cave development	Majority fabric / one of the most permeable	
	VII			лег	Dolomitic member	AQ	110-130	Mudstone to grainstone; crystalline limestone; chert	Caves related to structure or bedding planes	Mostly not fabric; some bedding plane fabric / water-yielding	
	VIII			Хаі	Basal nodular member	Karst AQ; not karst CU	50-60	Shaly, nodular limestone; mudstone and miliolid grainstone	Large lateral caves at surface	Fabric; stratigraphically controlled/ large conduit flow at surface; no permeability in subsurface	
	contining			nber of the Glen Limestone	CU; evaporite beds AQ	350-500	Yellowish tan, thinly bedded limestone and marl	Some surface cave development	Some water production at evaporite beds / relatively impermeable		

Reference: U.S.G.S. Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas; Water-Resources Investigations Report 95-4030

Note: CU = Confining Unit; AQ = Aquifer

Indicates Mapped Surface Formation

Geologic Narrative

Geologic Assessment **Hunter Quarry II** New Braunfels, Comal County, Texas WEI Proj. No.: 10080-085

Introduction

A Geologic Assessment (GA) was performed for the above-referenced site in December 2012 and Jan/Feb 2013 by a Westward Environmental, Inc. (WEI) field crew led by Michelle M. Lee, P.G. #6071; and in March 2013 by Ms. Lee as well as Thomas O. Mathews II, P.G. #5321 of WEI. The GA was performed at the ~800 acre site in accordance with the Texas Commission on Environmental Quality (TCEQ) Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones, TCEQ-0585-Instructions (Rev. 10-01-04). 113 potential recharge features, as defined by TCEQ-0585, were observed on the surface of the site at the time of this assessment.

Background

The proposed project area is undeveloped and located in the rural area of eastern Comal County near the Havs County line north and west of Hunter Road. The project area is approximately 800 acres in size and encompasses various types of geographical settings. With flat to gently sloping surfaces in the southern portion to very steep rock wall bluffs in the north. The topographic elevations range from a high of ~985 ft above mean sea level (amsl) in the central portion of the tract to a low elevation of ~745ft amsl along the southern perimeter of the property.

Selective clearing has been done across most of the southern half of the site to accommodate a small hunting compound and cattle operation. The northern portion of the site is very rugged, densely vegetated and steep.

Stratigraphy & Structure

According to the USGS Geologic Map of the New Braunfels, 30 x 60Minute Quadrangle Miscellaneous Map No. 39 (Collins, 2000), the subject property is located over the Cretaceous aged Buda Formation (Kbu), Del Rio Formation (Kdr), Georgetown Formation (Kgt) and the Edwards Group - Person Formation (Kp). Each of these formations was observed at the surface of the site during field reconnaissance along with scattered Quaternary Terrace deposits (Qt) comprised mainly of limestone in some of the drainage ways.

Although the Kdr formation is mapped at the site by the USGS, very few visual indications of this unit were observed during field reconnaissance. Mesquite trees and Exogyra fossils normally associated with this unit were observed in only two locations on site. The first was at feature S-57, a closed depression where an excavator was used to make a shallow cut into the ground. The exposed Kdr was compacted and cemented, possibly due to the fault S-112 mapped nearby. The second outcrop was exposed on the northern end of a stock pond, a closed depression named feature S-81. The Del Rio Formation (Kdr) was used to construct part of the dam. Mesquite trees were observed in addition to many loose Exogyra fossils that covered the ground in this area.

Several prominent structural features were observed during field reconnaissance. Main faults and associated cross-faults were identified utilizing aerial photography and field verification. The Edwards Group is juxtaposed against the Buda Formation in the northern half of the site along typical northeast to southwest trending normal faults. The northern half of the site is very rugged, steep and has large karstic feature zones along the drainage that enters the site on the northern boundary. The northern area surface dips in a southwesterly direction to the edge of the deep rocky drainage. The other side of the drainage is mostly vertical rock bluffs. Evidence of paleo springs were observed at different elevations as well as high velocity flow of water during flood events. The topographic change from the drainage floor to the top of the bluff in the NW corner is approximately 90 ft.

Feature Discussion

C - Caves

Caves were observed as part of zone features during field reconnaissance. Please refer to the Zone discussion below.

CD - Non-Karst Closed Depressions

S-7, S-15, S-19, S-25, S-26, S-28, S-34, S-37, S-39, S-41, S-42, S-44, S-47, S-48, S-50, S-51, S-52, S-53, S-56, S-57, S-62, S-63, S-78, S-81, S-85, S-86, S-104, S-107 and S-108: Not Sensitive

There were several areas that exhibited evidence of hogs and hog habitat especially in the Kbu areas. Since most of the depressions in this area were caused by animals they were not mapped in unless the depression was large or followed the dominating trend and met the minimum size requirements.

S-7: 8'x4.5'x0.9', fine-grained infilling (fg) & vegetation @90°; S-15:6.5'x3.7'x0.8', fg with grass @38°; S-19: 110'x9'x1.7', fg w/vegetation in a drainage @90°; S-25: 6.5'x4'x0.8', fg w/vegetation @85°; S-26: 9'x5'x0.7', fg w/vegetation @85°; S-28: 6'x2.5x1', fg w/vegetation, cactus & tree @50° located in the Kbu; S-34: 6'x3'x0.7', fg w/grass @50° located in Kdr; S-37: 5.5'x3'x0.7', fg w/grass @90°; S-39: 5.5'x3.5'x1', fg w/grass & vegetation @ 130°; S-41: 4'x8'x0.9', fg w/grass and small tree @ 60°; S-42:10'x3.5x0.8', fg w/grass & organics @350°; S-44:5.5'x3.5x0.9', fg w/grass & trees @10°; S-47: 7.5'x4'x0.8', fg w/organics and grass @ 40°; S-48: 8'x4'x1.2' fg w/vegetation & trees @75°; S-50: 5'x4.5'x0.6', fg w/grass and tree in Kbu @20°; S-51: 5.5'x3'x0.5', fg w/grass & organics in Kbu @11°; S-52: 7.5'x3.7'x0.6', fg w/grass & tree in Kbu @85°; S-53: 7.5'x0.4'x1.3', fg w/organics, tree & vegetation @45°; S-56: 6'x2.5'x0.8', fg w/organics, grass & trees @130°; S-62: 6'x3.2'x0.9', fg w/organics & grass in Kbu @60°; S-63: 20'x7'x1.3', caused by stream scour fg w/grass & organics in Kbu @120°; S-78: 6.5'x4'x0.8', fg w/grass & vegetation @ 120°;

S-57 appears to be a trench dug with a dozer on a trend of 330°. It measures 36'x8'x3' and is in the Kdr. This is the only outcrop of Kdr observed in the lower portion of the site. The Kdr is cemented and very compact in this feature and along the mapped exposure in this area. Very few mesquite tress and Exogyra fossils were observed in this area probably due to the compacted nature of the outcrop. Probability of rapid infiltration is very low.

S-81: is a stock pond located in the central portion of the site. It measures 355'x100'x6' and is completed in the Kdr. This feature was holding water at the time of field reconnaissance. S-85: 6'x4'x1.3', fg w/grass and cobbles @350°; S-86: 7'x2'x0.9', fg w/grass @15°; S-104: 7'x4x0.5', fg w/grass and rock rim on north side @355°; S-107: 6'x4'x1', fg w/grass & tree @35° and S-108: 8'x3.5'x0.6', fg w/grass and cedar tree @ 30°.

F - Faults

S-20, S-59, S-61, S-112, S-113 and S-114: Not Sensitive

S-20 is visible at the surface along the eastern perimeter where Kbu is juxtaposed to Kep. Exposed bedrock appears cemented and the probability of rapid infiltration is low. S-59 and S-61 intersect to create a drop block of Kep along the western perimeter. Dipping beds are visible at the intersection. S-61 continues across the site before intersecting S-20. Some minor solution cavities and fractures were observed along the fault plane in the western perimeter in the drainage but were horizontal in nature and located above the channel. Dipping beds were also observed in the high wall here. Probability of rapid infiltration is low.

S-112 is located in the center of the site and there is a pronounced change in topography here as the Kdr is juxtaposed to the Kep. S-113 intersects S-112 toward the eastern part of the site. Here Kbu is juxtaposed to the Kep along part of the fault but the only visible outcrop of Kgt was also observed along this fault. With little exposed bedrock and good amounts of soil and vegetation, probability of rapid infiltration is low.

S-114 is a very steep and narrow drainage with Kbu on the up thrown side to the southeast juxtaposed to the Kep on the downthrown side. The steep, rocky creek (near and along S-111) in the upper part of the site appears to dead end into this fault along the western perimeter. It changes from a very rugged and rocky channel to broad flat areas with grass and large amounts of soil and vegetation. The channel becomes difficult to discern at this point due to the soil and vegetation cover. Probability of rapid infiltration at the surface is low.

S-111: Sensitive

S-111 is located in the upper area along the northern perimeter. The offset here appears to be approximately 30' but the creek makes an almost 90° turn at this fault where tall rock cliffs almost 100' tall are present in the northwestern corner of the feature. In stark contrast, across the channel from this same point the topography is a gently sloping hillside. The channel is mostly bedrock with large boulder and cobble float. Evidence of high velocity flood events is visible in channel and along the banks. Zone feature S-109 is located adjacent to the fault and has a cave and numerous large solution cavities. Probability of rapid infiltration is moderate.

MB - Man-Made Feature in Bedrock

S-4: Not Sensitive

S-4 is a water well located in the central portion of the property near the hunting camp. Although the well was not in operation during the field reconnaissance it did appear completed and to be in compliance with 16 TAC Chapter 76. Probability of rapid infiltration is low.

O - Other Natural Bedrock Features

S-9, S-13, S-21, S-64, S-65, S-67, S-71, S-95 and S-99: Not Sensitive

S-9 is a depression in the bedrock measuring 20'x11'x1.5' located above a drainage with an array of fine & coarse-grained materials, grass and vegetation. Probability of rapid infiltration is low. S-13 is a depression in bedrock located in a drainage with exposed limestone in the bottom. Some fractures were visible but were thin and filled with organics. Probability of rapid infiltration is low. S-21 is located in a drainage in the eastern portion of the site. It measures 25'x7'x1.5' with a trend of 80° and is against a small bluff in the drainage. Coarse-grained, organics, rocks and some vegetation were observed here during field reconnaissance. Probability of rapid infiltration is low.

S-67 and S-71 were mapped in the same drainage in the northwestern portion of the site. These are depressions in bedrock and measured 25'x8'x1' for S-67 and 80'x40'x4' for S-71. Both features had exposed bedrock, organics, cobbles and some fine-grained material infilling. Orientation of the features is 280° and 310°, respectively or roughly perpendicular to faults S-111 and S-114. This is typical of drainages in a relay ramp system. Probability of rapid infiltration is low to slightly moderate.

S-95 and S-99 are also depressions in bedrock. S-95 measures 7'x5.5'x0.7' and is located on a hillside at an 1100 orientation. Fine-grained sediment and cobbles were observed in this feature during field reconnaissance. S-99 measured 15'x7'x1.4' with coarse-grained material and cobbles at a 310° orientation. Probability of rapid infiltration for these features is low.

SC – Solution Cavities

S-1, S-2, S-3, S-5, S-6, S-8, S-10, S-11, S-12, S-14, S-17, S-18, S-23, S-27, S-29, S-30, S-33, S-35, S-36, S-40, S-43, S-49, S-54, S-58, S-66, S-68, S-69, S-72, S-73, S-74, S-75, S-77, S-80, S-82, S-83, S-84, S-87, S-88, S-89, S-90, S-91, S-92, S-94, S-97, S-98, S-100, S-101, S-102, S-103 and S-105: Not Sensitive

There are numerous small solution cavities throughout the site. Each has a low probability of rapid infiltration and all are either infilled with fine tight soils or with fine soils and small amounts of organics.

SF - Solution Enlarged Fractures

S-32, S-55, S-79, S-93 and S-96: Not Sensitive

S-32 measures 4 by 2 by 0.9 and trends at 380 and is located on the hillside. Probability of rapid infiltration is low. S-55 measures ~2.7'X0.6'X1.7' and trends at 50°. It is located in a drainage and extends horizontally into the hillside with fine-grained sediment at the opening. Probability of rapid infiltration is low. S-79 measures 3'x0.6'x>3' at a trend of 130°. The feature is mostly horizontal but does dip downward slightly around 2.6' into the opening. Some organic material was observed at the opening. The top of the outcrop is heavily vegetated and impedes any downward motion of water. Probability of rapid infiltration is very low.1.3'x

S-93 and S-96 are located in the upper portion of the site near the drainage. S-93 is actually two different fractures measuring 4.7'x0.2'x>1.3' and 5'x 0.4'x>1.3'. Both trend at 315° and may intersect past the opening. Fine-grained sediment, organics and spiders were observed in the opening of this feature. S-96 is 3'x0.7'x1.3' trending at 265°. Fine-grained sediment, organics and a small tree were observed in the feature. Probability of rapid infiltration to these features is very low.

SH - Sink Holes

S-16, S-32, S-38, S-45 and S-46: Not Sensitive

S-16 is a small filled in sink hole measuring 8'x6'x2' and trends at 45°. The rock rim is visible but the interior has been filled with fine-grained sediment, grass and other vegetation. Probability of rapid infiltration is low. S-32 is also a small infilled sink hole with fine-grained organics, grass and vegetation. The feature measures approximately 4'x2'x0.9' and trends at 38°. Probability of rapid infiltration is very low. S-38 measures 4.2'x3.1'x0.8' and trends at 140°. The feature is infilled with some fine-grained sediment and cobbles with exposed bedrock. The location of this feature on a hillside near the hill top gives this feature a low probability of rapid infiltration.

S-45 (@130°) and S-46 (@85°) are located approximately 400' apart near the northeastern perimeter. They measure 4'x2.7'x0.8' and 5.5'x3.2'x1.3', respectively. Both have fine-grained sediment, organics and vegetation in the interior. Probability of rapid infiltration is low.

SW - Swallow Holes

Swallow holes were not observed during field reconnaissance.

Z-Zones

S-60, S-70, S-106a, 106b, S-109 and S-110: SENSITIVE

S-60 is a zone of solution cavities and fractures located near the juncture of faults S-59 & S-61. The zone trends at 25° and measures approximately 45' long by 18' high and is in a limestone bluff. Solution cavity openings vary in size from ~1" up to 1.5' and fractures up to 4' long and 4" high. Most extend horizontal but some features then turn downward past the opening. Probability of rapid infiltration is moderate.

S-70 is a 400 ft. long zone of several large solution cavities, fractures and a cave in a limestone cliff that is approximately 70' - 80' tall. The cave "Too Old for Football" cave is located near the top of the bluff with an opening of ~4'x2.8' that opens up into a room with a height of ~5.5' that trends at 290°. Some solution cavities are over 4' in length at the opening and extend over 6' into the bluff. All features observed in the zone have horizontal openings but then go different directions into the bluff. A rugged, rocky drainage is located at the toe of the bluff that drains to the southeast. Infiltration will be by runoff from the top of the bluff and the area that drains to this zone. Probability of rapid infiltration is high.

S-106 A is a zone of solution cavities and solutions fractures in a 600 ft. long bluff located on the eastern bank of the northernmost drainage. Several of the features are within the floodplain and others are located in the cliff highwall.

S-106 B is a zone of solution cavities and fractures in a long 500 ft long rock bluff. Located on the southwestern bank of the northernmost drainage, the limestone bluffs range from 20' tall to nearly 70'. Numerous large solution cavities, fractures and other features in bedrock were observed in this water worked bluff. Some cavities were over 3' wide at the opening and extended back into the bluff. Fractures were more numerous along bedding planes but were seen as long as 6' and 1.5' tall. Dipping bedrock in the channel of the drainage was observed as part of S-111. Two depressions in the bedrock with little infilling were observed along the toe of the bluff. Some features had no infilling while other had some with vegetation.

Because some of the zone features were located in or near the main channel, probability of rapid infiltration is assigned as high.

S-109 is a 400 ft long zone of caves, solution cavities and fractures located in the northwestern corner of the upper area drainage that measures approximately 500' long and 50' high. This zone is adjacent to fault S-111. The rock cliff here is ~100 ft high and has numerous solution cavities, fractures with possible paleo springs and two caves. "Odyssey11" cave is located eight feet off the channel floor and has an opening that measures 6'x5' and extends 8' into the cliff at a trend of 45°. The height of the room is almost 8' where the opening extends upwards and tapers to about 11". The walls are highly solutioned and the entrance has other solution cavities around it. Debris was located in a layer about 4' up the cave wall possibly indicating a very large flood event in the past.

Another smaller cave "Bear Man Pig Central" is located approximately 25' above the "Odyseey11" cave and also trends at 45°. The entrance measures approximately 5'x4' and is about 6' deep with highly solutioned walls. Due to the height of the cave off the ground, solutioning here occurs due to water infiltrating from the surface downward.

Rapid infiltration is possible but only during flood events. Probability of rapid infiltration is high.

S-110 is a 250 ft. long zone of very large solution cavities and fractures trending at 275°. The rock bluff varies from 5' in height to almost 50'. There were numerous large fractures and cavities located within 10' of the drainage channel floor. Some cavities measured up to 4'x1.5' at the opening and extended 3' into the bluff. One fracture measured 7.5' long and 2' high with a depth of at least 1.5'. Some features were located high in the bluff and some near the channel. Infilling ranged from none to fine-grained sediment and vegetation.

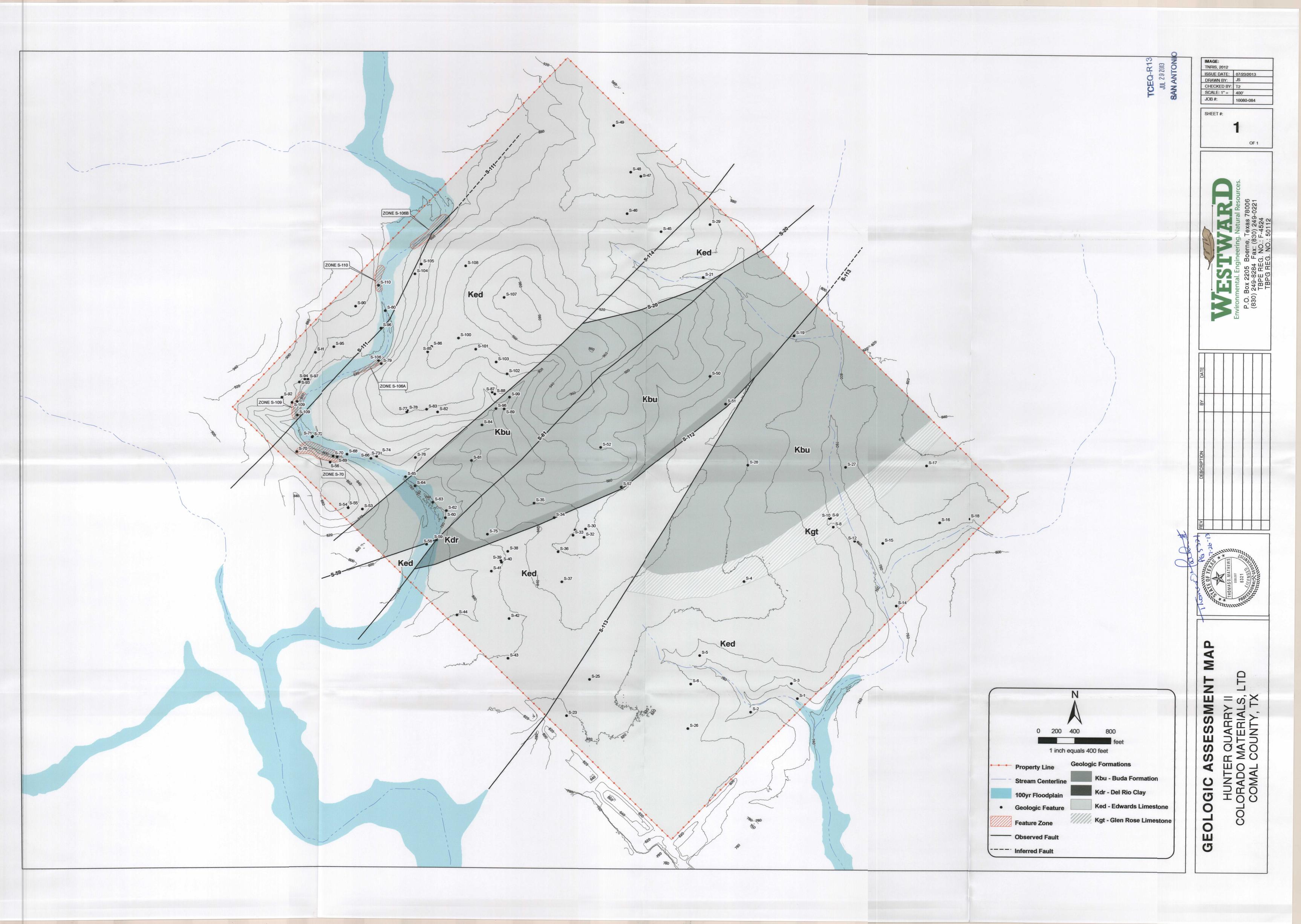
Because some of the zone features were located in or near the main channel, probability of rapid infiltration is assigned as moderate.

Groundwater Elevation

A measurement of the on-site water well (feature S-4) was used in combination with information from the Hays County Reference Well [LR-67-02-104 (Kyle No. 2)] to determine the estimated local water elevation. The on-site well water level was measured on July 15, 2013 to be 243.95 feet below ground surface (bgs). Existing ground elevation at the well is 824' above mean sea level (amsl). Therefore, the groundwater elevation on July 15, 2013 was 580.05 feet above mean sea level (824' amsl - 243.95' = 580.05' amsl groundwater elevation).

This data was compared, in accordance with RG-500, to the Hays County Reference Well data. As noted in RG-500, sites in Comal County should use the nearest reference well, which in this case is the Hays County Reference well. The Hays County Reference Well water level was last measured on July 1, 2013 to be 101.92 feet bgs. This equates to an elevation of 572.4 feet amsl. The 2007 Wet-Weather High-Water Elevation for this well was 576 feet amsl, indicating a 3.6 feet water level drop from 2007 to 2013. This same change in elevation was applied to the on-site well data to extrapolate the 2007 Wet-Weather High-Water Elevation for the on-site well: 583.65 feet amsl (580.05' + 3.6' = 583.65'). separation will be maintained between the quarry floor and the on-site wet-weather groundwater elevation of 583.65 feet amsl. Based on this information, the Hunter Quarry II will quarry to a maximum depth of approximately 609 feet amsl (583.65' + 25' \approx 609).





Water Pollution Abatement Plan Application

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

REGULATED ENTITY NAME:	Hunter Quarry I	l		
REGULATED ENTITY INFORMATION				
Residential: # of Livin Commercial _X Industrial	Residential: # of Lots: Residential: # of Living Unit Equivalents:			
2. Total site acreage (size of pr	operty):	-845		
3. Projected population:	<u>~10 em</u> g	oloyees		
4. The amount and type of impe	ervious cover expected a	after construction a	re shown below:	
Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres	
Structures/Rooftops	0	÷ 43,560 =	0	
Parking	0	÷ 43,560 =	0	
Other paved surfaces	0	÷ 43,560 =	0	
Total Impervious Cover	0	÷ 43,560 =	0	
Total Impervious Cover ÷ Total Acr	eage x 100 = 0		0	
 X ATTACHMENT A - Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form. 				
S. X Only inert materials as defined by 30 TAC §330.2 will be used as fill material.				
FOR ROAD PROJECTS ONLY Complete questions 7-12 if this app	lication is exclusively fo	or a road project.		
City thoroughfare or r	built to county specifica oads to be dedicated to ng access to private driv	a municipality.		
Concrete	Asphaltic concrete pavement			

9.	Length of Right of Way (R.O.W.): feet. Width of R.O.W.: feet. L x W = Ft² ÷ 43,560 Ft²/Acre = acres.
10.	Length of pavement area: feet. Width of pavement area: feet. L x W = Ft² ÷ 43,560 Ft²/Acre = acres. Pavement area acres ÷ R.O.W. area acres x 100 =% impervious cover.
11.	A rest stop will be included in this project. A rest stop will not be included in this project.
12.	Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.
STOR	MWATER TO BE GENERATED BY THE PROPOSED PROJECT
13.	_X_ ATTACHMENT B - Volume and Character of Stormwater. A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.
WAST	EWATER TO BE GENERATED BY THE PROPOSED PROJECT
14.	The character and volume of wastewater is shown below: % Domestic20gallons/day % Industrialgallons/day % Commingledgallons/day
	TOTAL 20 gallons/day THIS NUMBER IS BASED ON 10 EMPLOYEES
15.	Wastewater will be disposed of by: N/A On-Site Sewage Facility (OSSF/Septic Tank): ATTACHMENT C - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable. Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.
	N/A Sewage Collection System (Sewer Lines): Private service laterals from the wastewater generating facilities will be connected to an existing SCS. Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

	The SCS was previously submitted on The SCS was submitted with this application. The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.
	The sewage collection system will convey the wastewater to the (name) Treatment Plant. The treatment facility is: existing proposed.
16.	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" = 400 '.
18.	 100-year floodplain boundaries X Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled. No part of the project site is located within the 100-year floodplain.
	The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRM 48091C0285F – Effective September 2, 2009
HOW	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. OUT IS SHOWN WITH EXISTING CONTOURS. FINAL CONTOURS ARE NOT YET KNOWN; EVER, IT IS ANTICIPATED THAT FINAL SLOPES OF THE COMPLETED QUARRY WILL BE COXIMATELY 2%.
	The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
20.	All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.): X There are1_(#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply) The wells are not in use and have been properly abandoned. The wells are not in use and will be properly abandoned. X The wells are in use and comply with 16 TAC §76. There are no wells or test holes of any kind known to exist on the project site.
21.	Geologic or manmade features which are on the site: X All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled. No sensitive geologic or manmade features were identified in the Geologic Assessment. ASSESSMENT. ATTACHMENT D - Exception to the Required Geologic Assessment. An exception to the Geologic Assessment requirement is requested and explained at the end of this form.

TCEQ-0584 (Rev. 10-01-10)

- 22. X The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. X Areas of soil disturbance and areas which will not be disturbed.
- 24. X Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. X Locations where soil stabilization practices are expected to occur.
- 26. X Surface waters (including wetlands).
- 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. X Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 29. X Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

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 AND TOTAL PORTION FORM** is hereby submitted for TCEQ review and Executive Director approve. The forting prepared by:

Mary Ellen Schulle, PE

Print Name of Customer/Agent/Engine

114545

Signature of Customer/Agent/Enginee

Date

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. More remote factors include fuels and lubricants from vehicles and equipment and trash/debris items.

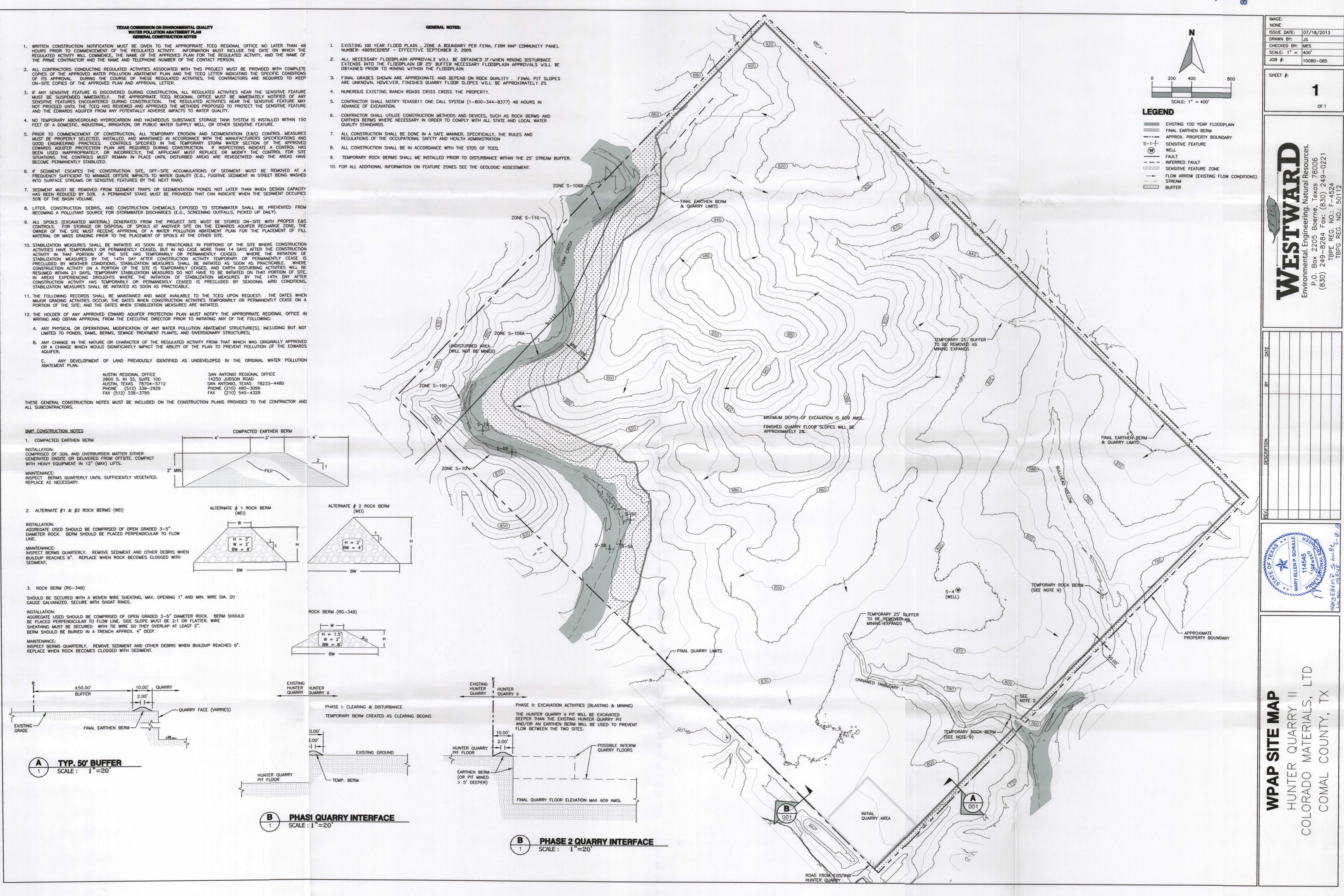
Earthen/rock berm(s) and vegetated buffers located downgradient of the disturbed area(s) are proposed to capture sediment and control the flow of stormwater. Upgradient berms prevent run-on to disturbed areas of the site. Any spills or leaks will be cleaned up in a timely manner and will be disposed of properly. A trash receptacle will be placed on-site for use by employees and visitors.

WPAP Attachment B

Volume and Character of Stormwater

The area of the proposed final quarry pit, as shown on the WPAP Site Plan, is approximately 714 acres. The stormwater from this disturbed area will carry an increased level of total suspended solids (TSS); however, stormwater from this area will be retained in the pit.

Due to the use of Temporary BMPs during construction the character of stormwater runoff which is expected to occur from the proposed project will be essentially the same as prior to the site. As quarrying activities continue, the volume of stormwater runoff from the site will be reduced because the quarry pit will ultimately retain the anticipated on-site and upgradient stormwater runoff. The runoff coefficient for the impervious areas is 0.9 and the runoff coefficient for predevelopment is 0.03 per TCEQ guidance.



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

REGU	LATED	ENTITY NAME: Hunter Quarry II
Examp	les: Fu	SOURCES OF CONTAMINATION lel storage and use, chemical storage and use, use of asphaltic products, construction ing onto public roads, and existing solid waste.
1.	Fuels constr	for construction equipment and hazardous substances which will be used during uction:
		Aboveground storage tanks with a cumulative storage capacity of less that 250 gallons will be stored on the site for less than one (1) year. Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year. Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project. Fuels and hazardous substances will not be stored on-site.
2.	<u>X</u>	ATTACHMENT A - Spill Response Actions . A description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is provided at the end of this form.
3.	N/A	Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
4.	_X_ 	ATTACHMENT B - Potential Sources of Contamination. 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.
SEQUE	ENCE	OF CONSTRUCTION
5.	<u>X</u>	ATTACHMENT C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is provided at the end of this form. For each activity described, an estimate of the total area of the site to be disturbed by each activity is given.

TEMPORARY BEST MANAGEMENT PRACTICES (TBMPs)

Creek, Unnamed Tributary 1

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

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: Bullhead Hollow, York

X

6.

Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- ATTACHMENT D Temporary Best Management Practices and Measures. A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
 - X TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information has been provided in the attachment at the end of this form
 - a. A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - b. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - d. A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
- 8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
 - N/A 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. SEE ATTACHED WPAP SITE PLAN.
 - __ 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. N/A ATTACHMENT H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure has been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are provided as at the end of this form.
- 12. X ATTACHMENT I Inspection and Maintenance for BMPs. A plan for the inspection of temporary BMPs and measures and for their timely maintenance, repairs, and, if necessary, retrofit is provided at the end of this form. A description of documentation procedures and recordkeeping practices is included in the plan.
- 13. X All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 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. N/A Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. X Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

SOIL STABILIZATION PRACTICES

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

- 17. X ATTACHMENT J Schedule of Interim and Permanent Soil Stabilization Practices. A schedule of the interim and permanent soil stabilization practices for the site is attached at the end of this form.
- 18. X Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. X Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

ADMINISTRATIVE INFORMATION

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

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

Mary Ellen Schulle, PE

Print Name of Customer/Agent/Engine

7/18/13 Date

Temporary Stormwater Section Attachment A

Spill Response Actions

Education

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

General Measures

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up in a timely manner.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill clean-up materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn't compromise cleanup activities.
- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.

- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up in a timely manner:

(1) Contain spread of the spill.

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a Haz-Mat team should be obtained in a timely manner. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- (5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

In the event of a reportable spill, the following Emergency Response Agencies can be contacted for assistance. Always inform your supervisor of a reportable spill in a timely manner. Follow company policy when responding to an emergency.

State Emergency Response Commission	(512) 463-7727
National Response Center	(800) 424-8802
US EPA Region 6, Dallas, 24-hr Number	(866) 372-7745
National Weather Service	. (281) 337-5074
TCEQ 24-hr	(800) 832-8224
TCEQ Region 13	(210) 490-3096

Vehicle and Equipment Maintenance

- (1) If maintenance must occur on-site, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- (2) Regularly inspect on-site vehicles and equipment for leaks and repair in a timely manner.
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

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

DETAILED TELEPHONE SPILL REPORT FORM

Date of Incident:
Location of Incident:
Description of material spilled:
Quantity of material spilled:
Cause of spill:
Authorities notified:
Remediation/clean-up action:
Corrective measures taken for prevention of reoccurrence:
Signature:
Notes:

Portable Toilet BMPs:

Portable toilets will be used at Hunter Quarry II and will be handled in accordance with the following guidelines:

- A licensed waste collector should service all the toilets. The following tasks will be performed by the portable toilet supplier:
 - o Empty portable toilets before transporting them.
 - o Securely fasten the toilets to the transport truck.
 - Use hand trucks, dollies, and power tailgates whenever possible.
 - o Suppliers should carry bleach for disinfection in the event of a spill or leak.
 - o Inspect the toilets frequently for leaks and have the units serviced and sanitized at time intervals that will maintain sanitary conditions of each toilet.
- Locate portable toilets at least 20 feet from the nearest storm-drain inlet or sensitivefeature buffer area
- Prepare a level ground surface with clear access to the toilets.
- Secure all portable toilets to prevent tipping by accident, weather, or vandalism.

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/debris items.

Temporary Stormwater Section Attachment C

Sequence of Major Activities

The project will consist of construction of a 714 acre quarry. Clearing will be initiated in the initial 10 acre quarry area, as shown on the attached WPAP Site Plan. The cleared topsoil will be used to construct earthen berms surrounding the cleared area. Berms will be 2-4 feet high. After clearing is completed in the initial 10 acre quarry area, excavation of the quarry pit will begin in this area. Portions of the site, less than 10 acres, will be cleared in stages as quarrying progresses. The earthen berms surrounding the quarry will expand as the quarry expands to the Final Earthen Berm. Temporary rock berms will be constructed near the downgradient end of Bullhead Hollow and York Creek once mining in these areas begins.

Temporary Stormwater Section Attachment D

Temporary Best Management Practices (TBMPs) and Measures

7.a. TBMPs and measures will prevent pollution of surface water, groundwater and stormwater that originates upgradient from the site and flows across the site.

As the initial quarry area is cleared and topsoil is removed, earthen berms will be constructed. Upgradient berms will direct stormwater runoff around disturbed areas of the site.

Temporary natural existing vegetation will be maintained in a 25 foot buffer along Bullhead Hollow and Unnamed Tributary 1 (and associated 100 year floodplain). These buffers will be maintained until mining begins in these areas. A permanent 200 foot buffer will be maintained along the southern side of York Creek and will serve as a buffer for the stream as well as for sensitive features located there.

As the size of the quarry expands, the earthen berms will expand throughout the life of the project, up to the buffer zones to provide additional controls as mining nears the streams. Once all applicable permits have been obtained, Bullhead Hollow and Unnamed Tributary 1 (and the associated buffers and 100-year floodplain) will be mined. Rock berms will be used near the downgradient end of Unnamed Tributary 1 and Bullhead Hollow when mining is set to begin in these areas. In addition, a natural vegetated buffer with a minimum width of 50 feet will be maintained between the edge of disturbance for the quarry activities and the property line. This natural vegetated buffer will serve as a final treatment for stormwater runoff leaving the active portion of the site.

The Hunter Quarry II pit will be excavated deeper than the existing Hunter Quarry pit and/or an earthen berm will be used to prevent flow between the two sites.

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

Temporary natural existing vegetation will be maintained in a 25 foot buffer along Bullhead Hollow and Unnamed Tributary 1 (and associated 100 year floodplain). These buffers will be maintained until mining begins in these areas. A permanent approximately 200 foot buffer will be maintained along the southern side of York Creek and will serve as a buffer for the stream as well as for sensitive features located there.

As the size of the quarry expands, the earthen berms will expand throughout the life of the project, up to the buffer zones to provide additional controls as mining nears the streams. Once all applicable permits have been obtained, Bullhead Hollow and Unnamed Tributary 1 (and the associated buffers and 100-year floodplain) will be mined. Rock berms will be used near the downgradient end of Unnamed Tributary 1 and Bullhead Hollow when mining is set to begin in these areas. In addition, a natural vegetated buffer with a minimum width of 50 feet will be maintained between the edge of disturbance for the quarry activities and the property line (except

where noted on the WPAP Site Map). This natural vegetated buffer will serve as a final treatment for stormwater runoff leaving the active portion of the site.

The Hunter Quarry II pit will be excavated deeper than the existing Hunter Quarry pit and/or an earthen berm will be used to prevent flow between the two sites.

7. c. TBMPs and measures will prevent pollution of surface streams, sensitive features and the aquifer. Earthen berms and vegetated areas will be constructed/maintained as shown on the attached WPAP Site Plan to prevent pollutants from entering surface streams, sensitive features and the aquifer. Temporary natural existing vegetation will be maintained in a 25 foot buffer along Bullhead Hollow and Unnamed Tributary 1 (and associated 100 year floodplain). These buffers will be maintained until mining begins in these areas. A permanent approximately 200 foot buffer will be maintained along the southern side of York Creek and will serve as a buffer for the stream as well as for sensitive features located there.

As the size of the quarry expands, the earthen berms will expand throughout the life of the project, up to the buffer zones to provide additional controls as mining nears the streams. Once all applicable permits have been obtained, Bullhead Hollow and Unnamed Tributary 1 (and the associated buffers and 100-year floodplain) will be mined. Rock berms will be used near the downgradient end of Unnamed Tributary 1 and Bullhead Hollow when mining is set to begin in these areas. In addition, a natural vegetated buffer with a minimum width of 50 feet will be maintained between the edge of disturbance for the quarry activities and the property line (except where noted on the WPAP Site Map). This natural vegetated buffer will serve as a final treatment for stormwater runoff leaving the active portion of the site.

7. d. To the maximum extent practicable TBMPs and measures will maintain flow to naturallyoccurring sensitive features identified in the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction. Flow will be maintained to naturally occurring sensitive features, to the maximum extent possible, by using a 200' natural vegetated buffer upgradient of the sensitive features. The vegetated buffer is used to limit runoff discharge of sediment. Earthen berms and the quarry, which store flows, will be used as pollution prevention measures to mitigate runoff from larger disturbed areas. These larger disturbed areas have a greater potential to contain sediment, therefore retention of flows will be used to provide a higher level of protection of water quality of the aquifer.

Any possibly sensitive geologic feature discovered by mining staff will be handled in the following manner. Sediment that can be easily removed from the area adjacent to the feature without disturbing the feature will be removed. Then a rock berm will be placed around the feature to control and filter any potential flows into the feature. After placement of the rock berm, the active work area of the quarry will be moved to another portion of the pit where the feature cannot be impacted by the continuing quarry operations. A Professional Geologist will be called to the site to observe and rate the feature. If the feature is determined to be sensitive in accordance with TAC 213 rules, the TCEQ will be notified and an appropriate method for addressing the feature will be formulated and submitted for TCEQ approval. Work will not resume in the area of the feature until the TCEQ approved method for addressing the feature has been carried out.

Temporary Stormwater Section Attachment F

Structural Practices

Temporary best management practices proposed for the limestone quarry include earthen berms and natural vegetated buffers. The vegetated buffers are used to limit runoff discharge of sediment. The earthen berms are used to store flows and limit runoff discharge of pollutants from exposed areas of the site as well as to divert flows away from exposed (disturbed) soils.

Temporary Stormwater Section Attachment I

Inspection and Maintenance for BMPs

The earthen and rock berms should be inspected quarterly. Written documentation of these inspections should be kept during the course of construction at the project site (see following example Inspection Form.) Any erosion of berms should be backfilled and compacted as soon as possible. If a berm is no longer able to properly filter the sediment from the stormwater due to contamination from silt, it should be replaced.

The vegetated buffers should be inspected quarterly. Written documentation of these inspections should be kept during the course of construction at the project site (see following example Inspection Form.) Trash should be removed and any eroded areas should be reseeded.

Hunter Quarry II will be authorized to discharge stormwater under the TPDES General Permit No. TXR050000 for industrial activities. Requirements of the general permit include maintaining a SWP3 which includes inspections of stormwater best management practices and sampling of stormwater that is discharged from the site.

It is not anticipated that dewatering of the pit will be required. However, if necessary, mine dewatering will be accomplished according to the TCEQ stormwater regulations noted in the TPDES General Permit No. TXR050000 under Sector J for Mineral Mining and Processing Facilities.

Any dewatering required at the site would be accomplished using a pump to remove the water after solids have settled out and the water is tested and found to be in compliance with the numeric effluent limitations of TPDES General Permit No. TXR050000 Section J, (5)(ii) of 45 mg/L for a daily maximum and 25 mg/L for a daily average. These concentrations are lower than the estimated background concentration as stated in the Edwards Aquifer Technical Guidance Manual (RG-348) of 80 mg/L for undeveloped areas. The water would be discharged to a natural drainage area onto a rip rap pad such that soil erosion would be mitigated.

		Rock	Berms	Earthen Berms	Natural Ve	egetated Buffers	
Date	Inspector Signature	>6" Silt Retained	Rock Berm Clogged	Erosion of Earthen Berm	Trash	Vegetative Cover Erosion	Additional Comments
	-						

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

Rock Berm

- * >6" of silt retained remove silt, place in protected area
- * Rock berm clogged the rock berm should be replaced when accumulated silt, washout or damage to berm occurs

Natural Vegetated Buffers

- * Remove trash if present
- * Reseeed eroded areas to reestablish vegetation

Earthen Berm

* Erosion of earthen berm - fill eroded areas and compact

Temporary Stormwater Section Attachment J

Schedule of Soil Stabilization Practices

Areas Outside The Pit:

Cleared areas and interim earthen berms may be disturbed for more than 14 days without stabilization because it is not practical to be continually stabilizing small areas prior to their excavation and stabilizing the earthen berms that are frequently relocated. The purpose of soil stabilization is to control erosion and prevent pollutants from entering surface waters, streams, and the aquifer through sensitive recharge features. Areas outside of the pit that are disturbed for quarrying are generally drilled and blasted within 90 days. It is not feasible or appropriate to try to stabilize these areas with vegetation because 1) the topsoil has been removed and vegetation will not readily grow; 2) these areas will soon be excavated and; 3) other structural BMPs will be used to protect stormwater runoff quality from these areas in a manner consistent with customary and acceptable mining practices.

Because the soils and overburden in these cleared areas have been removed and placed in an earthen berm adjacent to the cleared areas, erosion of these areas is mitigated. The earthen berms upgradient of the cleared areas divert upgradient stormwater away from cleared areas and earthen berms downgradient of cleared areas retain stormwater runoff from the cleared area. The proposed BMPs provide adequate protection for the area outside of the pit.

Any stockpiles located outside the pit that do not flow to the pit will be mitigated by a downgradient earthen or rock berm and the natural vegetated area along the property line.

For the case when the quarry operations have been completed (permanently ceased) all stormwater will be retained in the pit. The Final Earthen Berm outside the pit will be stabilized with native grasses. The undisturbed vegetated buffers shown on the WPAP Site Plan will remain undisturbed so no additional stabilization practices will be needed.

Areas Inside The Pit:

Stockpile areas inside the pit do not need to be stabilized; the requirement for soil stabilization exists in order to control erosion and prevent pollutants from entering surface waters, streams and the aquifer through sensitive recharge features. The disturbed soils in the quarry pit will be retained in the pit thereby eliminating the need for soil stabilization in the pit to prevent pollutants from entering surface waters or streams. The BMP discussed in the WPAP Temporary Stormwater Section Attachment D (7.d.) will mitigate infiltration of stormwater into the quarry floor. In addition it is not practical to stabilize areas of the pit with vegetation because often times areas of the pit will not be active for some period of time, then be reactivated. Therefore, since the disturbed areas will be located in the pit no soil stabilization is expected to be necessary at the completion of the project.

Permanent Stormwater Section

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

REGL	JLATED	ENTITY NAME: Hunter Quarry II		
		pest management practices (BMPs) and measures that will be used during and action is completed.		
1.	<u>X</u>	Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.		
2.	<u>X</u>	These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.		
		 X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site. A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is provided below: 		
3.	_X_	Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.		
4.	<u>X</u>	Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.		
		 This site will be used for low density single-family residential development and has 20% or less impervious cover. This site will be used for low density single-family residential development but has more than 20% impervious cover. This site will not be used for low density single-family residential development. 		
5.	<u>X</u>	The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.		

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 X small business sites. ATTACHMENT B - BMPs for Upgradient Stormwater. A description of the BMPs and measures that will be used to prevent pollution of X 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 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. ATTACHMENT C - BMPs for On-site Stormwater. A description of the BMPs and measures that will be used to prevent pollution of _X_ 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. X ATTACHMENT D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is provided at the end of this form. Each feature identified in the Geologic Assessment as "sensitive" has been addressed. The applicant understands that to the extent practicable, BMPs and measures must Χ 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 X "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 ATTACHMENT E - Request to Seal Features. A request to seal a naturallyoccurring "sensitive" or "possibly sensitive" feature, that includes a justification as to why no reasonable and practicable alternative exists, is found at the end of this form. A request and justification has been provided for each feature. ATTACHMENT F - Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ

6.

7.

8.

9.

10.

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

- ATTACHMENT G Inspection, Maintenance, Repair and Retrofit Plan. A plan for the 11. Χ 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. X The TCEQ 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. Χ ATTACHMENT I -Measures for Minimizing Surface Stream Contamination. 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. Χ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- 15. A copy of the transfer of responsibility must be filed with the executive director at the Χ appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

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

Mary Ellen Schulle, PE Print Name of Customer/Age Signature of Customer/Age

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

Permanent Stormwater Section 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:

The temporary earthen berms that are constructed as clearing occurs will expand as the size of the quarry expands. The earthen berms will expand throughout the life of the project to the Final Earthen Berm shown on the WPAP Site Plan. The Final Earthen Berm will be vegetated with native grasses to stabilize soils. During the life of the quarry, runoff will be retained in the pit.

An approximately 200' buffer will be located on the southern side of York Creek (see attached WPAP Site Plan). A 50' vegetative buffer will be maintained between the Final Earthen Berm and the property line (except where noted on the WPAP Site Plan) as a final treatment for any stormwater leaving the site.

Permanent stormwater controls are those that are to remain in place after construction has been completed. At the time construction is completed at the subject site, on-site stormwater will be retained inside the quarry pit. The vegetated Final Earth Berm and the 50 foot vegetated buffer that surround most of the site will be located along the property boundary. An approximately 200 foot buffer will be located along the southern side of York Creek.

Permanent Stormwater Section 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:

Pollution of surface water, groundwater or stormwater that originates on-site or flows off-site during the life of the quarry will be mitigated by the use of temporary earthen berms, vegetated areas, and the pit which will be constructed as shown on the WPAP Site Plan.

Permanent stormwater controls are those that are to remain in place after construction has been completed. At the time construction is completed at the subject site, on-site stormwater will be retained inside the pit. The vegetated Final Earth Berm and the 50 foot vegetated buffer that surround most of the site will be located along the property boundary. An approximately 200 foot buffer will be located along the southern side of York Creek.

Permanent Stormwater Section 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:

During the life of the quarry, temporary earthen and rock berms will be constructed as shown on the WPAP Site Plan to prevent pollutants from entering surface streams, sensitive features and the aguifer. The earthen berms that surround future disturbed areas will expand to protect Bullhead Hollow the Unnamed Tributaries as mining activities approach them (Bullhead Hollow and Unnamed Tributary 1 are proposed to be mined). Disturbed areas will be controlled by earthen berms, undisturbed areas, and the pit.

Permanent stormwater controls are those that are to remain in place after construction has been completed. At the time construction is completed at the subject site, on-site stormwater will be retained inside the pit. The vegetated Final Earth Berm and the 50 foot vegetated buffer that surround most of the site will be located along the property boundary. An approximately 200 foot buffer will be located along the southern side of York Creek (which also protects sensitive features).

Any possibly sensitive geologic feature discovered by mining staff or the Professional Geoscientist will be evaluated by a Professional Geoscientist and if determined to be sensitive, will be reported to TCEO. An appropriate method for addressing the feature will be formulated by a Professional Geoscientist or a Professional Engineer and upon approval by TCEO, the method to protect the feature will be implemented. Work will not resume in the area of the feature until the TCEO approved method for addressing the feature has been carried out.

Permanent Stormwater Section Attachment F

Construction Plans

See WPAP Site Plan.

Permanent Stormwater Section Attachment G

Inspection, Maintenance, Repair and Retrofit Plan

Final earthen berms should be inspected quarterly until stabilized with vegetation. Written documentation of these inspections should be kept during the course of construction at the project site. Any erosion of berms should be backfilled and compacted as soon as possible.

Vegetated buffers should be inspected at least twice annually, until the Final Earthen Berm has been vegetated, for erosion or damage to vegetation. Written documentation of these inspections should be kept during the course of construction at the project site. Bare spots and areas of erosion identified during inspections must be replanted. Trash and debris items should be removed.

MARY ELLEN P. SCHULL

7/18/13

Name and signature of responsible party for maintenance of permanent BMPs

Print Name: Tord Singley - Colorado Materials, Ltd

Signature Date: 4-18-13

Name and signature of Engineer

Print Name: Mary Ellen P. Schulle, PE-Westward Environmental, Inc.

Signatura

Permanent Stormwater Section Attachment I

Measures for Minimizing Surface Stream Contamination

To avoid surface stream contamination, Temporary 25 foot vegetated buffers will be left in place around Bullhead Hollow and Unnamed Tributary 1 to filter sediment in stormwater runoff until quarrying of these areas begins. Earthen berms will expand to these buffers as the quarry expands and will retain flows until quarrying of these areas begins. The permanent approximately 200' buffer on the southern side of York Creek will filter sediment from stormwater runoff and protect sensitive features. Flows from disturbed areas will be retained by earthen berms or directed into the quarry pit. The quarry pit will retain stormwater and any associated contaminants without discharge to surface water or stream channels. The vegetated Final Earthen Berm and 50 foot vegetated buffer will mitigate surface stream contamination. Because little runoff is expected from the site due to the proposed limestone pit, stream flashing, stronger flows, and in-stream velocities are not expected to occur as a result of this project.

Agent Authorization Form

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

1. WALTER	ULBRICHT	
Na Andread Anna Anna Anna Anna Anna Anna Anna An	Print Name	Ÿ
SECRETAR	24	
	Title - Owner/President/Other	
of:	Colorado Materials, Ltd	
`	Corporation/Partnership/Entity Name	
have authorized	Curt G. Campbell, PB and Mary Ellen Schulle, PB.	
	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 those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- 3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
- 4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
- No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

TCEQ-0599 (Rev.04/01/2010)

SIGNATURE PAGE:

Applicant's Signature	7-8-13
Applicant's Signature	Date

THE STATE OF TEXAS & County of HAYS &

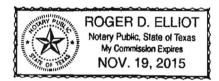
BEFORE ME, the undersigned authority, on this day personally appeared WALTER LIBRATION to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 8 day of July , 2013

Kogen Elliaf NOTARY PUBLIC

Roger Elliot
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 11/19/2015



Agent Authorization Form

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

1 WALTER U	LBRICHT	
	Print Name	
SECREMAR	٧	
	Title - Owner/President/Other	
of	Diamond EAW Holdings, LLC	
	Corporation/Partnership/Entity Name	
have authorized	Walter Ulbricht	
	Print Name of Agent/Engineer	
of	Colorado Materials, Ltd.	
	Print Name of Firm	

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

I also understand that:

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

SIGNATURE PAGE:

WT allunt	7-19-13
Applicant's Signature	Date

THE STATE OF TEXAS § County of HAYS 8

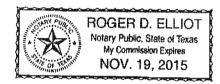
BEFORE ME, the undersigned authority, on this day personally appeared ULBICICHT known to me to be the person whose personal authority where the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose person whose personal authority is a second to the person whose personal authority is a second to the person whose personal authority is a second to the person whose person all a second to the person whose person all a second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person whose person are to be second to the person are 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 $19^{\frac{11}{19}}$ day of $\frac{3}{19}$.

Roger Edeod NOTARY PUBLIC

Roger Elliot
Typed of Printed Name of Notary

MY COMMISSION EXPIRES: 11/19/2015



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

NAME OF PROPOSED REGULATED ENTITY: Hunter Quarry II REGULATED ENTITY LOCATION: 5080 FM.2439, New Braunfels, TX.78132.										
NAME OF CUSTOMER: Colorado Materials, Ltd										
CONTACT PERSON: Tom Singley (Please Print)	PHONE: 512-396-155	<u> </u>								
Customer Reference Number (if issued): CN 60052	2452 (nine	e digits)								
Regulated Entity Reference Number (if issued): RN_NEW	(nine	digits)								
Austin Regional Office (3373)	Travis Williamson	g.								
San Antonio Regional Office (3362) Bexar	Comal Medina	Kinney 🗌 Uvalde								
Application fees must be paid by check, certified check, o Environmental Quality. Your canceled check will serve your fee payment. This payment is being submitted to (C	as your receipt. This form	Texas Commission or must be submitted with								
Austin Regional Office	☐ San Antonio Regional Of	ffice								
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 512/239-1278										
Site Location (Check All That Apply): X Recharge Zon	e 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	845 Acres	\$ 10,000								
Sewage Collection System	LF.	\$								
Lift Stations without sewer lines	Acres	\$								
Underground or Aboveground Storage Tank Facility	Tanks	\$:								
Piping System(s)(only)	Eàch	. \$								
Exception	Each	\$								
Extension of Time	Each	\$								
1)—Ulleder Signature	7-8-13 Date	 .								

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

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

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

Texas Commission on Environmental Quality Edwards Aquifer Protection Program

Application Fee Schedule 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications Contributing Zone Plans and Modifications

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

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 NO.
1249	TEXAS COMMISSION ON ENVIRONMEN	15253

COLORADO MATERIALS, LTD.

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COLORADO MATERIALS, LTD. P.O. Box 2109 San Marcos, Texas 78667 (512)353-7757 Wells Fargo Bank, N.A. San Marcos, Texas 37-65/1119

DATE	CHECK NO.	AMOUNT
7/08/13	15253	\$10,000.00

Ten thousand and xx / 100 Dollars

PAY TO THE ORDER OF

TEXAS COMMISSION ON ENVIRONMENTAL QUA

PO BOX 13087

AUSTIN, TX 78711-3089

KOID AFTER 6 MONTHS

67



TCEQ Use Only

TCEQ Core Data Form

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

SECTIO	<u> V I: G</u>	eneral Information							
1. Reason for Submission (If other is checked please describe in space provided)									
	······································	istration or Authorization (Core Da						ration)	
	,	Data Form should be submitted wi					her		
2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)									
Yes No 3. Customer Reference Number (if issued) Follow this link to search 4. Regulated Entity Reference Number (if issued)									
3. Customer	Reference	ce Number (if issued)	for CN or I				egulated Entity Ref	erence Numb	er <i>(if issued)</i>
CN 600522452 Central Registry** RN NEW									
SECTION II: Customer Information									
		Customer Information Updates (
6. Customer	Role (Pro	oposed or Actual) – as it relates to the	Regulated I	Entity liste	ed on t	nis form.	Please check only <u>one</u>	of the following	7.
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Occupatio			V	oluntary	Clear	ир Аррі	icant Other	*	
7. General C	ustomer	Information					<u></u>	www.coorsoorsoorsoorsoorsoorsoorsoorsoorsoor	
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8. Type of C	ustomer:	Corporation	li	ndividual			Sole Proprieto	rship- D.B.A	
City Gove	rnment	County Government	F	ederal G	Govern	ment	State Governr	nent	
Other Go	vernment	General Partnership	XL	imited P	artner	ship	Other:		
9. Customer	Legal Na	arme (If an individual, print last name fi	īrst: ex: Doe,	. John)		new Cust low	tomer, enter previous	Customer	End Date:
Colorado N	laterials	, Ltd							
	P.O. Box	x 2109				- Britanian Control			
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X New Reg	-						lated Entity Informat		Change** (See below)
		"If "NO CHANGE" is checked	and Section	l is compl	lete, sk	p to Sect	ion IV, Preparer Informa		
23. Regulate	d Entity N	Name (name of the site where the reg	ulated action	n is taking	g place)		····	
Hunter Quar	ry II				***************************************				

24. Street Address of the Regulated	5080	FM 2439	_								_		
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26. E-Mail Address 27. Telephone Nur			28	3. Extension	on or Co	ode	29.	Fax Nu	mber (if ap	onlicable)		
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35. Description to Physical Location	Site FM	entrance is located or 1102 and FM2439 in	the west s Hunter, Te	ide of FM24 kas	439 appro	iximately	0.1 mil	es NE of	the intersec	tion of			
36. Nearest City			Co	ounty				State			Nearest	ZIP Code	
New Braunfels			Co	omal				Texas			78132		
37. Latitude (N)	n Decimal								Decimal: -98.045862				
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39. TCEQ Programs updates may not be made			other and wr	ite it in. See	the Core D		instructi	ons for add	ditional guida	nce.	s submitted or	n this form or the	
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SECTION IV	: Prepa	rer Informa	tion										
40. Name: Mary	Ellen Sch	ulle, PE				41.	Title:	Pro	ject Engine	eer		_	
42. Telephone Nun	nber	43. Ext./Code	44. F	ax Numbe	er	4	5. E-Ma	ail Addr	ess				
(830) 249 - 8284	4		(830) 249 -	0221	m	neschul	lle@wes	twardenv.c	com		4	
SECTION V:	Autho	rized Signat	ure									SC SF	
46. By my signaturand that I have signatural updates to the ID n	re below, nature autl	I certify, to the be nority to submit th	est of my his form o										
(See the Core Date				nation on				150					
Company:		Environmental, Inc			J	ob Title	e:	Project E					
Name (In Print):	Mary Ellen	Schulle, PE							Phone:	(830) 249	- 8284	
Signature:	\sim	9		Ē					Date:		7/14/1	3	

Bryan W. Shaw, Ph.D., Chairman Carlos Rubinstein, Commissioner Toby Baker, Commissioner Zak Covar, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 8, 2013

Mr. Tom Singley Colorado Materials, Ltd. P.O. Box 2109 San Marcos, TX 78667

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: Hunter Quarry II; Located approximately 0.1 miles northeast of the intersection of FM1102 and FM 2439; Hunter, Texas

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

Investigation No. 1105493; Regulated Entity No. RN102380250; Additional ID No. 13-13072901

Dear Mr. Singley:

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 Colorado Materials, Ltd. on July 29, 2013. Final review of the WPAP was completed after additional material was received on October 7, 2013 and November 1, 2013. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

PROJECT DESCRIPTION

The proposed limestone quarry project will have a total area of approximately 845 acres. The proposed quarry pit will disturb approximately 714 acres. The proposed activities for the site include quarrying to an elevation no deeper than 609 feet above mean sea level (a.m.s.l.). Haul roads and stock piles will be contained within the quarry pit. The pits will be excavated in 10 acre sections and separated by existing stream channels. As presented, the stream channels will only be quarried with prior approval from all appropriate jurisdictional agencies. No on-site sewage facility is proposed at this time. Project wastewater

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

Mr. Tom Singley Page 2 November 8, 2013

(domestic) will be collected in portable toilets and disposed of two times per week by a TCEQ registered waste disposal service. Trash generated on-site will be disposed of in a dumpster and handled by a licensed waste service. Blasting agents will be used in the mining process. The site will not include process water. The site will connect to the existing limestone quarry (Hunter Quarry) located at 5080 FM 2439 in New Braunfels, Comal County.

PERMANENT POLLUTION ABATEMENT MEASURES

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

- A 50 foot natural buffer will be maintained along the perimeter of the property to reduce soil erosion and runoff velocities.
- Expansion of the quarry will occur in phases. The first phase where regulated activities and soil disturbance will occur is a rectangular area adjacent to the recharge zone boundary. As quarry expands to the next phase, another rectangular area will then be disturbed. Expansion in phases will allow vegetation to remain in place and limit the amount of soil that is disturbed at once.
- An earthen berm (safety berm) composed of compacted soil and/or overburden will be constructed. At the full extent of the quarry pit, the earthen berm will encircle the quarry pit. Upgradient strom water will be diverted around the site and onsite flows will be prevented from leaving the site.
- Rock berms will be installed on the downgradient side of the earthen berm in areas of concentrated flow.
- Refueling and maintenance activities for vehicles and equipment will occur off of the recharge zone to
 maximum extent possible. If emergency maintenance occurs or if refueling on the recharge zone must
 occur, appropriate protection measures will be implemented. These measures include keeping spill
 containment kits, front-end loaders and haul trucks available, training equipment operators and
 having operators monitor equipment during the refueling operation.
- Sensitive features zones S-60, S-70, S-106a, S-106b, S-109, S-110, and S-111 will be protected by a natural 200 foot buffer area along the southern side of York Creek (and the final earthen berm). All other sensitive features are included in the above mentioned zones.
- Areas located within the floodplain of Unnamed Tributary 1 and Bullhead Hollow will obtain all applicable authorizations from proper authorities. A 25 foot vegetated buffers will be left in place around Unnamed Tributary 1 and Bullhead Hollow until authorization is obtained.

GEOLOGY

According to the geologic assessment, included with the application, the Cretaceous aged Buda Formation, Del Rio Formation, Georgetown Formation and the Edwards Group-Person Formation are exposed at the site. One hundred fourteen features were evaluated by the project geologist, with eleven geologic features having a high probability of rapid infiltration and therefore sensitive rating. Six (6) sensitive zones and one (1) sensitive fault were identified during the assessment. All sensitive features will be protected in zone S-60, S-70, S-106a, S-106b, S-109, S-110, and S-111 is a fault. All zones included solution cavities. Zone S-70 includes "Too Old for Football" cave and zone S-109 includes "Bear Man Pig Central" cave. The San Antonio Regional Office site assessment conducted on October 3, 2013 revealed that the site was generally as described in the application.

Mr. Tom Singley Page 3 November 8, 2013

Natural buffers were proposed for eleven natural sensitive features, S-58, S-49, S-60, S-69, S-72, S-70, S-106a, S-106b, S-109, S-110, and S-111. No regulated activities (such as construction or soil disturbing activities) will take place within the natural buffers. The size is generally based on the drainage are for each sensitive feature. The natural 200 foot buffer area along the southern side of York Creek (and the final earthen berm) will include all sensitive features.

SPECIAL CONDITIONS

- I. The on-site Quarry Manager will receive annual training from a licensed Professional Geoscientist on feature identification and protection. Each occurrence of this training must be documented and the documentation must be presented when requested by TCEQ representatives.
- II. The on-site Quarry Manager experienced in feature identification will conduct visual surveys of the pit to ensure adequate identification and reporting of encountered sensitive features. Visual surveys will be conducted monthly. Results of each visual survey conducted by the on-site Quarry Manager must be documented and then presented when requested by TCEQ representatives.
- III. This approval does not authorize the construction or installation of aboveground storage tanks at the site on the Edwards Aquifer recharge zone.
- IV. The BMPs and measures proposed in the application and/or described in this approval letter must be operational prior to any soil disturbing activities with in a BMP's drainage area.
- V. Intentional discharges of sediment laden water from regulated activities are not allowed. If dewatering becomes necessary, appropriate measures must be taken.
- VI. 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.

VII. This approval letter is being issued for regulated activities (as defined in Chapter 213) and for best management practices presented in the application. Other authorizations may be necessary. Failure to obtain all necessary authorizations could result in enforcement actions.

STANDARD CONDITIONS

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

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3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

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

During Construction:

- 10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.

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- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. "No well 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 water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

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

Mr. Tom Singley Page 6 November 8, 2013

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

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

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Monica Reyes of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210)403-4012.

Sincerely,

Lynn Bumguardner, Water Section Manager

San Antonio Region Office

Texas Commission on Environmental Quality

LMB/MR/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

cc: Ms. Mary Ellen Schulle, P.E., Westward Environmental, Inc.

Mr. Charlie Thomas, P.E., City Engineer, City of New Braunfels

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

Mr. Roland Ruiz, Edwards Aquifer Authority

TCEQ Central Records, Building F, MC 212



October 7, 2013

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Region 13 Office – San Antonio 14250 Judson Rd. San Antonio, Texas 78233 Project No.: 10080-85

RECEIVED

Attn:

Ms. Monica Reyes

Subject:

Proposed Water Pollution Abatement Plan (WPAP) - Response to Questions

Hunter Quarry II – EAPP ID No. 13-13072901, RN102380250

Colorado Materials, Ltd. - CN600522452

COUNTY ENGINEER

Dear Ms. Reyes,

Attached please find Westward Environmental Inc.'s (WESTWARD'S) response to your letter dated September 27, 2013 regarding the Colorado Materials, Ltd. WPAP application submitted July 29, 2013. Our response is as follows:

TCEO Question #1

Please show S-60 as feature zone.

Response: Please see the attached revised Geologic Assessment Map and WPAP Site Plan which have been revised to show S-60 as a Feature Zone. Feature Zone S-60 is 45' by 20' and therefore may be difficult to see at the map scale.

TCEO Question #2

Please show 25' buffer around Bullhead Hollow.

Response: Please see the attached revised WPAP Site Plan which has been revised to include the 25' buffer around Bullhead Hollow.

WESTWARD requests to see a draft of the approval conditions before TCEQ officially issues plan approval. If you have any questions regarding this response, or require further information, please call our office at (830) 249-8284.

Respectfully submitted,

WESTWARD ENVIRONMEN

Mary Ellen Schulle, PE, CFM

Project Engineer

TX - License #114545

Distribution: Addressee

Mr. Tom Singley - Colorado Materials, Ltd.

WEI 10080-85 File

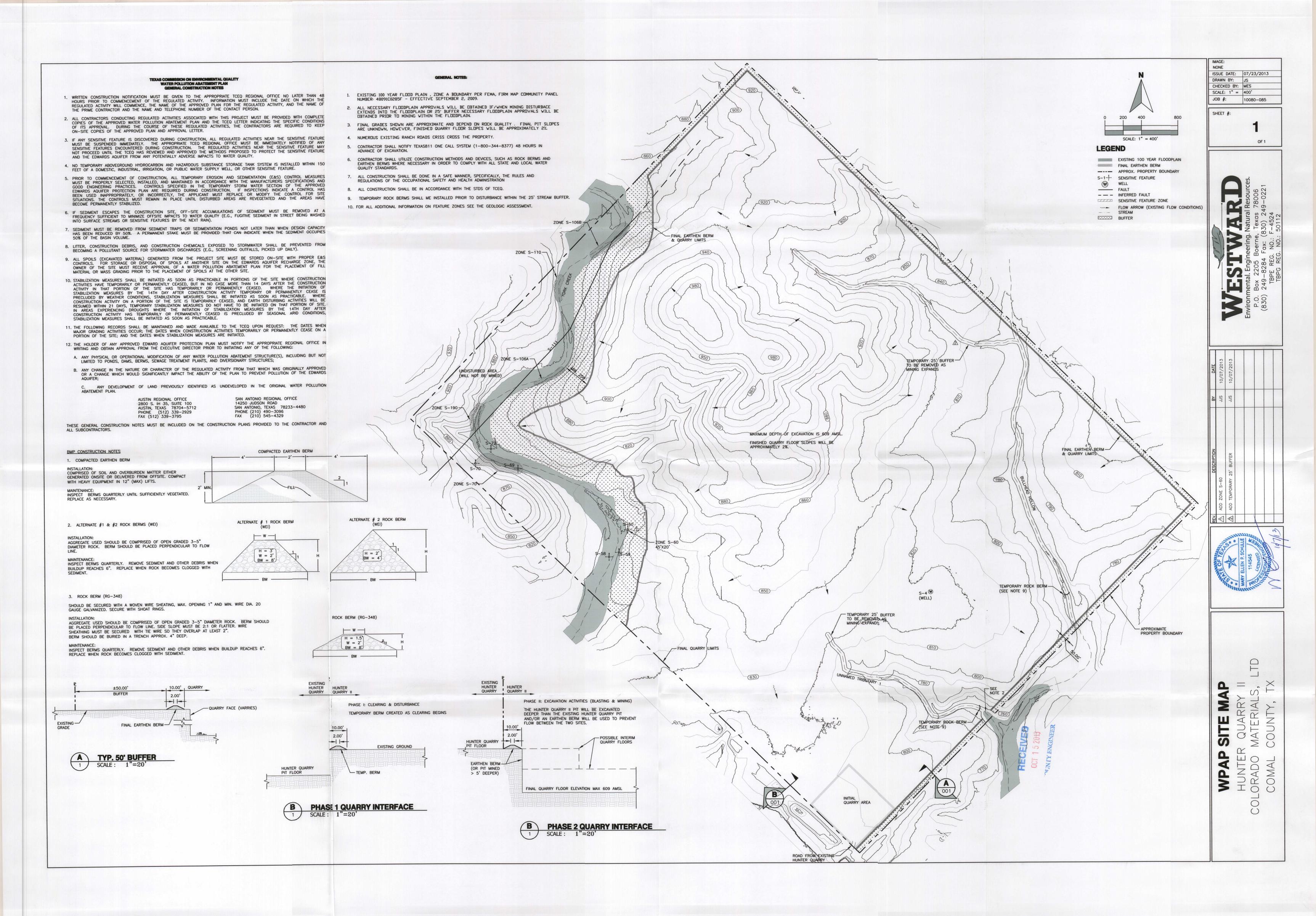
Attachments

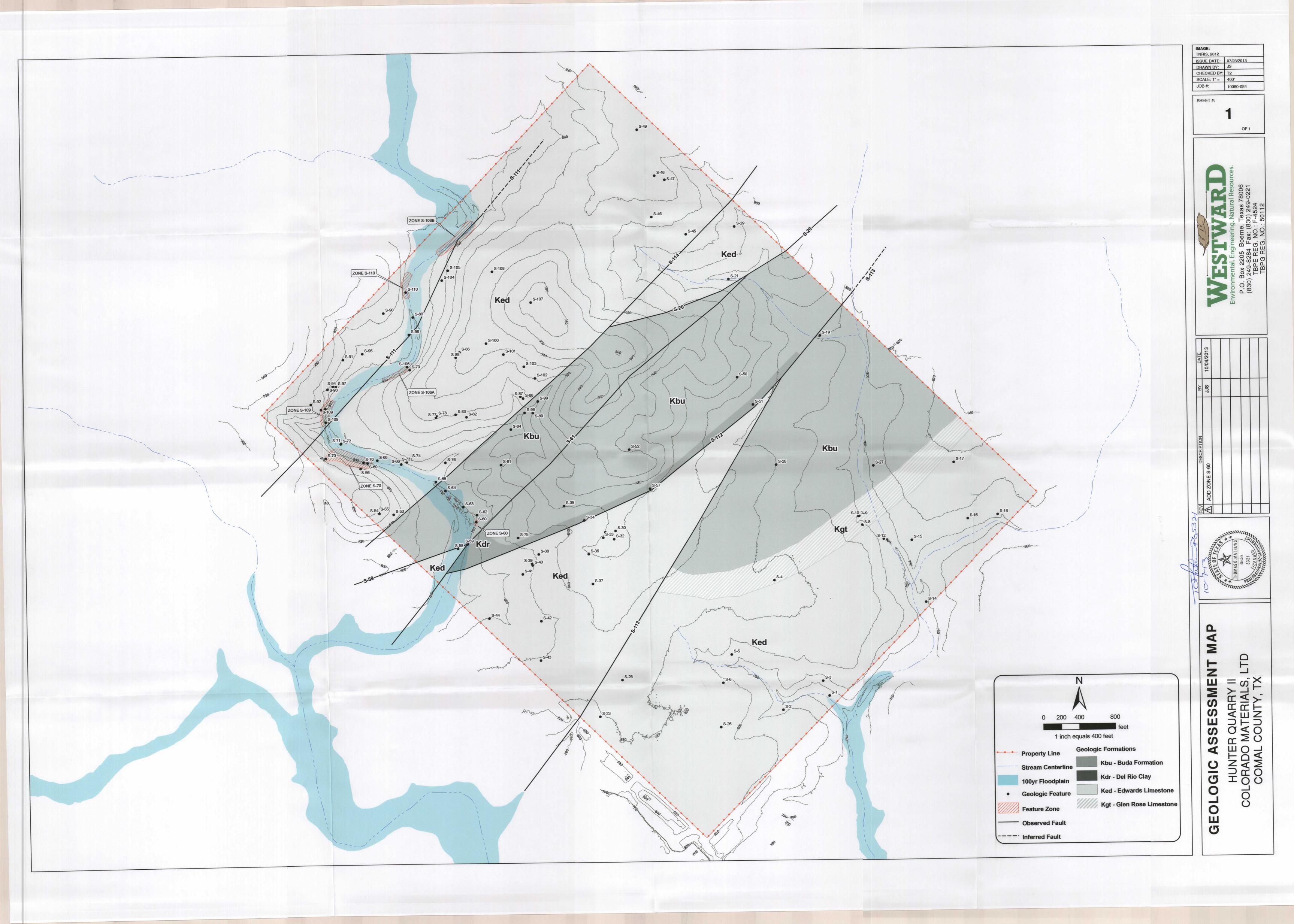
Main 830.249.8284 | Fax 830.249.0221

Texas Registered Geoscience Firm # 50112

Office P.O. Box 2205 Boerne, TX 78006

Texas Registered Engineering Firm #F-4524









X R A N S NUMBER OF PAGES (Including this September 27, 2013 cover sheet): TO: Name Mr. Tom Singley Organization Colorado Materials, Ltd. FAX Number 512-396-1558 TO: Ms. Mary Ellen Schulle, P.E. Name Organization Westward Environmental, Inc. FAX Number 830-249-0221 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY FROM: Name Monica Reyes Division/Region EAPP/San Antonio Telephone

210-403-4012

210-545-4329

NOTES:

Re: Edwards Aguifer, Comal County

FAX Number

Number

NAME OF PROJECT: Hunter Quarry II; Located west side of FM2439 approximately 0.1 miles northeast of the Intersection of FM 1102 and FM 2439; Comal County, Texas

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

Investigation No. 1105493; Regulated Entity No. RN102380250; Additional ID No. 13-13072901

Dear Ms. Schulle:

We are in the process of technically reviewing the WPAP application you submitted for the above-referenced project. Before we can proceed with our review, the following comments relating to the application must be addressed:

Geologic Assessment Map Comment:

1. Please show S-60 as feature zone.

Mr. Thad Rutherford/Mr. Heath L. Woods, P.E. September 3, 2013 Page 2

Water Pollution Abatement Plan Site Map Comments:

1. Please show 25' buffer around Bullhead Hollow.

We ask that you submit **one original and four copies** of the amended materials to supplement the WPAP application to this office by no later than **14 days from the date of this fax** to avoid denial of the plan. If the response to this notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, a second notice will be sent to you requiring a response within 14 days from the notice date. If the response to the second is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application will be denied unless you provide written notification that the application is being withdrawn. Please note that the application fee will be forfeited if the plan is not withdrawn. If you have any questions or require additional information, please contact Neal Denton of the Edwards Aquifer Protection Program of the San Antonio Regional Office at the number listed above.